

Cross-cutting issues table

S.No.	Name of curriculum	Code (PG)/Paper No. (UG)	Year/Semester	Cross cutting issues related topics in the curriculum			
				Gender	Environment and sustainability	Human values	Professional Ethics
1.	B.A.1(Ancient History)	PAPER-1	1 year	Unit-1 Belan & Son valley Unit-3 mother Goddess	Unit-1 Geographical distribution of Belan & Son Valley. Unit-2 Geographical distribution of Vindhya Ganga plains & south India. Unit-3 Geographical distribution & Decline.		Unit-1 Tool making. Unit-2 - Tool making & craft activities. Unit-3- pottery making, metallurgy & foreign trade. Unit-4- pottery making, metallurgy & Internal trade. Unit-5- pottery making, metallurgy & Internal trade.
2.	B.A.1(Ancient History)	PAPER-2	1 st year	Unit-3 Society Unit -4 Matriarchal society	Unit-4 Geographical distribution central India deccan. Decline of jorwe. Unit-5- Geographical distribution of Indian subcontinent	Unit-3 Nature of Dhamma	Unit-3 Foreign diplomatic relations, trade

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3.	B.A.2(Ancient History)	PAPER-1	2 nd Year	Unit-2 gender discrimination (Assyrian civilization)			Unit-1 Art & intellectual achievement Unit-3 art & literature Unit-4 Roman law Unit-5 philosophy of confucis, lao-tzu
4.	B.A.2(Ancient History)	PAPER-2	2 nd Year				Unit-5 local self government under the Cholas .
5.	B.A.3(Ancient History)	PAPER-1	3 rd Year	Unit-2 position of woman		Unit-3 Religious thought Unit-4 socio spiritual streams. Unit-5 social Religious reform	Unit-2 education system, gild there roles
6.	B.A.3(Ancient History)	PAPER-2	3 rd Year			Unit-4 Nationalism	
7.	B.A.3(Ancient History)	PAPER-3	3 rd Year	Unit-1 Harappan art Unit-3 Ajanta		Unit- 1 TO 5	Unit-1 to 5

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8.	M.A. SEM.1(Ancient History)	ANC-501 (CORE)		UNIT-4 Position of women	Unit-1 Geographical and ethnic profile	Unit-3 Ashram Purusharth in Hindu Sansakar. Unit-4 education system	Unit-4 educational institution and teaching curriculum, Unit-5 gilds varta trade and commerce
9.	M.A. SEM.1(Ancient History)	ANC-502 (CORE) ANC-503 (CORE) ANC-552 (ELECTIVE)				Unit-4	
10.	B.Sc. (Botany)	II Paper	2 nd Year		Plant Physiology and Ecology		

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11.	M.Sc. (Botany)	BOT508	II Semester		Ecology and Phytogeography (Unit I,II,III,IV and V)		
12.	M.Sc. (Botany)	BOT657	IV Semester		Ecology and Environment (Unit I,II,III,IV and V)		
13.	M.Sc. (Botany)	BOT605	IV Semester				Molecular Biology and Molecular Techniques Unit IV Bioinformatics Unit V Bioethics:
14.	Pre PhD Course work(Botany)	BOM 201			<u>i) Ecology</u>		
15.	Pre PhD Course work(Botany)	CW503			<u>(ii) Applied Phycology</u> (Unit-IV)		
16.	Pre PhD Course work(Botany)	BPC 126			<u>(iii) Microbiology</u> (Unit- I and IV)		
17.	B.Sc. (Chemistry) Part- III	UG/FIRST PAPER	Part-III		1. Air Pollutants their sources and toxic effects. 2. Particulates their sources		

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					and toxic effects. 3. Acid rain 4. Green house effects. Water pollutants		
18.	M.Sc. (Chemistry)	PG/FOURTH PAPER/ CHE 555/ Environmental Chemistry	SEM.-III	x			
19.	M.Sc. (Chemistry)	PG/FOURTH PAPER/ CHE 556/Reagents and Reactions.	SEM.-IV	x	UNIT: V 1. Introduction of green chemistry basic principles of green chemistry. 2. Organic synthesis using visible light, ionic liquid and PEGs. Selective Organic name reaction and their 3. Synthetic Application Baylis-Hillman Reaction Stetter Reactions		
20.	M.Sc. (Chemistry)	PG/FOURTH/CHE 555/Environmental Chemistry	SEM.- IV	x			
21.	B.Com.	II	Part - I	Unit – 6: Employment of Children and Women			
22.	B.Com.	IV	Part - I	-	-	-	Unit – 1: Communication Ethics

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23.	B.Com.	VI	Part - I	-	-	-	Unit -2: Social Responsibility and Ethics
24.	B.Com.	X	Part - II	-	Unit -7: Corporate Social Responsibility		
25.	B.Com.	XII	Part - II	-	Unit – 1: Business Environment, Unit -7: Legal Environment, Unit -8: International Environment of Business, Unit -9: Environment Protection		
26.	B.Com.	XII	Part - II	-	Unit – 1: Business Environment, Unit -7: Legal Environment, Unit -8: International Environment of Business, Unit -9: Environment Protection		
27.	B.Com.	XV	Part - III	-	-	Unit -9: Sustaining Employee Interest	
28.	B.Com	XIX	Part - III	-	-	Unit – 8: Sustaining Employee Interest	
29.	M.Com.	COM - 517	I	-	Unit -1: Social Responsibility of Business	-	Unit -1: Ethical Issues in Management
30.	M.Com.	COM - 518	I	-	Unit -1: Eco system and Environment, Environment Protection and Sustainable Development Unit – 2: Economic		

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					Environment of Business		
31.	M.Com.	COM - 612	IV	Unit -II: Start Up India for Women	Unit –V: Sustainable Development	Unit –Iv: Skill Development and Entrepreneurship	
32.	Pre-Ph.D Course Work in Commerce	COM-MAN-702	I	-	-	-	Unit-3: Publication Ethics
33.	Pre-Ph.D Course Work in Commerce	COM-MAN-752	I	-	-	Unit-4: Human Resource Development	-
34.	B.A. in Economics (Indian Economy: Nature and Problems)		1 st Year	Demographic features of India's Population (Unit-IV)	-	-	
35.	B.A. in Economics (Development and Planning)		2 nd Year	Measurements and Indicators of Development: GII (Gender Inequality Index), GDI(Gender Development Index)- (Unit-I)	-	PQLI(Physical Quality of Life Index), HDI(Human Development Index) (Unit-I)	-
36.	B.A. in Economics (Macro-Economics)		2 nd Year	-	Environmental Accounting(Unit- I)	-	-
37.	B.A. in Economics (India's Economic Policy)		3 rd Year	National Population Policy(Unit- I)	Environmental Problems and National Environment Policy (Unit- I)	-	-
38.	B.A. in Economics (Economic Analysis)		3 rd Year	-	-	The Criteria of Social Welfare(Unit- II)	-

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39.	M.A. in Economics (Microeconomics - I)	ECO- 501	1 st Semester	-	-	Welfare Economics (Unit- III)	-
40.	M.A. in Economics (Public Finance)	ECO- 508	2 nd Semester	-	-	Concept of Equity in Taxation (Unit- II)	-
41.	M.A. in Economics (Population Studies)	ECO- 571	3 rd Semester	Determinants and Pattern of Fertility in India (Unit- III)	-	-	-
42.	M.A. in Economics (India's Economic Policy- I)	ECO- 511	3 rd Semester	-	Market Failures (Unit- I) Environmental Issues in India (Unit- IV)	-	-
43.	M.A. in Economics (India's Economic Policy- I)	ECO- 511	3 rd Semester	-	-	Pareto- Optimality (Unit- I)	-
44.	M.A. in Economics (Environmental Economics)	ECO- 583	3 rd Semester	-	Environment Economics- Concept and Dimensions (Unit- I), Fundamentals of Environmental Resources and Environmental Problems (Unit- II), Solution to Environmental	-	-

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					Problems (Unit-III), Environment and Development (Unit-IV)		
45.	M.A. in Economics (India's Economic Policy-II)	ECO- 514	4 th Semester	Demographic Structure of India (Unit- III)	-	-	-
46.	M.A. in Economics (Development Economics)	ECO- 515	4 th Semester	Gender(Unit- II)	-	-	-
47.	M.A. in Economics (Demography)	ECO- 572	4 th Semester	<ul style="list-style-type: none"> • Measurement of Fertility Rates (Unit- I), • Life Table (Unit- II), Age Pyramid, Nuptiality Analysis (Unit-III)	-	-	-
48.	B.A.I(Education)	Paper-I	1 st Year	Unit-II: Sociological Approach to Education Unit-V: Role of Education in Economic Development	---	Unit-III: Training for Citizenship	Unit-III: Training for Citizenship Unit-V: Role of Education in Economic Development
49.	B.A.I(Education)	Paper-II	1 st Year	Unit-V Equal Educational Opportunities	Unit-1, II, III: Historical Perspectives of Education	Unit-V Education of Handicapped and Socially Disadvantages Group Unit: IV Problems related to learners, trainers,	Unit-I, II, III: Examination Reforms

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						curriculum management and	
50.	B.A.II(Education)	Paper-I	2 nd Year	Unit-IV: Culture and Education Unit-V: Urbanization and Modernization	---	Unit-IV: Social Stratification	Unit-II: Methods of Teaching and Discipline
51.	B.A.II(Education)	Paper-II	2 nd Year	Unit-I: Individual Differences Unit-III: Behavioral Problems and Adjustment	---	Unit-V: Social Interaction	Unit-II: Leadership Categories, Power of Influence and Leadership
52.	B.A. - III	Paper-III	3 rd Year	Unit-III: Population Education	Unit-II: Environmental Education	Unit-I: Value Education	---
53.	M.A. (Education)	EDU-501	1 st Semester	---	Unit-V: Logical positivism: Characteristic and educational implications	Unit-I: Approaches to Philosophy of Education Unit-IV: Humanism in Education : Characteristic and educational implications	---
54.	M.A. (Education)	EDU-502	1 st Semester	Unit-II: Education and social system	---	Unit-II: Education and social system	Unit-V: Important concerns and Issues in Education
55.	M.A. (Education)	EDU-503	1 st Semester	---	Unit-V: Stress-Concept, Factors	Unit-V: Mental Health- Concept, Process of	---

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					influencing Stress among learners	adjustment, Conflict, Defence mechanism	
56.	M.A. (Education)	EDU-505	2 nd Semester	---	----	Unit-III: Indian Schools of Philosophy with special reference to the concept of knowledge, reality, values Unit-V: Democratic Ideas and their implications for education. National values enshrined in Indian constitution	---
57.	M.A. (Education)	EDU-507	3 rd Semester	---	---	Unit-II: Motivation-Concept, Role of motivation in learning, Theories, Strategies for developing motivation	Unit-III: Role of Advance Organizer in learning
58.	M.A. (Education)	EDU-601	3 rd Semester	---	---	---	Unit-V: International perspective of education
59.	M.A. (Education)	EDU-602	3 rd Semester	---	---	---	Unit-V: New trends in evaluation-examination reforms
60.	M.A. (Education)	EDU-603	3 rd Semester	Unit-IV: Globalization and Education	---	---	---
61.	M.A. (Education)	EDU-604	3 rd Semester	---	Unit-1, II, III, IV & V	---	Unit-V:

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							Programmes for environmental protection and improvement, Environment and laws, Environmental management
62.	M.A. (Education)	EDU-605	4 th Semester	---	Unit-II: Learning Technology	---	---
63.	M.A. (Education)	EDU-606	4 th Semester	---	---	Unit-III: Supervision in Education	Unit-I: Educational Administration and Management Unit-IV: Leadership in Education Unit-V: Specific Trends in Educational Administration
64.	M.A. (Education)	EDU-652	4 th Semester	Unit-1: Introduction to Inclusive Education	---	Unit-III: Children with Diverse Needs Unit 4: Children with Diverse Needs	Unit-V: Utilization for Resources
65.	M.A. (Education)	EDU-653	4 th Semester	---	---	---	Unit-I: Recommendations of various commissions and committees on teacher education In-service teacher education:

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							concept of andragogy and its principles Unit 3 Professional development of teachers
66.	M.A. (Education)	EDU 654	4 th Semester	Guidance personnel- Role of different persons in the guidance programme, Characteristics of a successful ounselor, Training of ounselor, Duties of counsellor	---	---	---
67.	M.A. (Education)	EDU 655	4 th Semester	---	---	---	Unit 5 Trends in examination and evaluation
68.	B.A. (English)	1 Poetry	I year		Tintern Abbey by Wordsworth and Ode to a Nightingale by Keats	Essay on Man by Pope, when in disgrace by Shakespeare, Gitanjali by Tagore, Background, Cassually by Ezekiel	
69.	B.A. (English)	2 Drama	I year				Arms and the Man by Bernard Shaw
70.	B.A. (English)	3 Prose	I year	12 Million Black Voices by Richard Wright		Tight Corners by Lucas, In Defence of Ignorance by A.G.Gardiner, Student by Robert Lynd,	

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						On the pleasure of no longer being very Young by G.K. Chesterton, On Doing Nothing by J.B Priestley, Animal Farm by George Orwell,	
71.	B.A. (English)	1 Poetry	II Year	A Prayer for my Daughter by W.B. Yeats	Break, Break, Break by Tennyson, Darkling Thrush by Hardy, The Ghaghra in Spate by K.N.Daruwalla	My Last Duchess by Browning, The Dover Beach by Arnold, T.S.Eliot	
72.	B.A. (English)	2 Drama	II Year			Macbeth by Shakespeare	
73.	B.A. (English)	3 Prose	II Year	R.K.Narayan		Mr. Will Wimble and The Spectator Club by Addison and Steele, Beau TIBBS BY Oliver Goldsmith, Johnson, Charles Lamb	Of Studies by Bacon Book of Proverbs,
74.	B.A. (English)	Poetry	III Year	A.K.Ramanujan, Sylvia Plath		Dragon Fly at my Windowpane by Wole Soyinka, Post card from Kashmir by Agha Shahid Ali	
75.	B.A. (English)	Drama	III Year	Eugene o' Neill		The Birthday Party by Harold Pinter, Girish Karnad	
76.	B.A. (English)	Fiction	III Year	E.M. Forster		Pride and Prejudice by Jane Austen, Haroun and the Sea of Stories by Salman Rushdie	

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77.	M.A. (English)	ELC501	Sem 1			Poetry and Belief	
78.	M.A. (English)	ELC502		Absalom and Achitophel by John Dryden, Frankenstein by Mary Shelley	Tyger, lamb by William Blake	Hamlet by Shakespeare, Doctor Faustus by Christopher Marlow	Paradise lost by John Milton, All for love by John Dryden
79.	M.A. (English)	ELC503		Scarlet letter by Nathaniel, Hawthorne	Crossing Brooklyn ferry by Walt Whitman, Mending wall by Robert Frost, Cool Tombs by Sandburg	Desire under the elms by Eugene O'Neil, For whom the bells tolls by Earnest Hemmingway	
80.	M.A. (English)	ELC504		An apology to gautam by Kamala Das, Fire on the mountain by Anita Desai	Tagore, Arun Joshi	In arabic by Agha Shahid ALI, kala ghoda by Arun Kolatkar, Malgudi days by R.k.Narayan	
81.	M.A. (English)	ELC501	Sem 1			Poetry and Belief	
82.	M.A. (English)	ELC502		Absalom and Achitophel by John Dryden, Frankenstein by Mary Shelley	Tyger, lamb by William Blake	Hamlet by Shakespeare, Doctor Faustus by Christopher Marlow	Paradise lost by John Milton, All for love by John Dryden
83.	M.A. (English)	ELC503		Scarlet letter by Nathaniel, Hawthorne	Crossing Brooklyn ferry by Walt Whitman, Mending wall by Robert Frost,	Desire under the elms by Eugene O'Neil, For whom the bells tolls by Earnest Hemmingway	

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					Cool Tombs by Sandburg		
84.	M.A. (English)	ELC504		An apology to gautam by Kamala Das, Fire on the mountain by Anita Desai	Tagore, Arun Joshi	In arabic by Agha Shahid ALI, kala ghoda by Arun Kolatkar, Malgudi days by R.k.Narayan	
85.	M.A. (English)	ELC501	Sem I			Poetry and Belief	
86.	M.A. (English)	ELC502		Absalom and Achitophel by John Dryden, Frankenstein by Mary Shelley	Tyger, lamb by William Blake	Hamlet by Shakespeare, Doctor Faustus by Christopher Marlow	Paradise lost by John Milton, All for love by John Dryden
87.	M.A. (English)	PELE 511	Sem III		John Synge	Thomas Hardy, Wilfred Owen, D.H. Lawrence	
88.	M.A. (English)	PELE 654		Denial by		T.S.Eliot	
89.	M.A. (English)	PELE 660		Taslina Nasreen		Bapsi Sidhwa	
90.	M.A. (English)	PELE 512	Sem IV			Bolt, Delaney, Charles Lamb, Lawrence	
91.	M.A. (English).	PELE 664			Raymond Williams, the white tiger by Amitav Ghosh		
92.	M.A. (English)	PELE670				Ajjaa khaal waris shah nu by Amrita Pritam, patitions	

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						Kamleshwar.	
93.	MA/M.Sc- in GEOGRAPHY		1 ST SEMESTER	GEOGRAPHICAL THOUGHT- 2 ND 3 RD 4 TH UNIT	ADVANCED GEOMORPHOLOG Y- UNIT 1 ST 2 ND 3 RD 4 TH		
94.	MA/M.Sc- in GEOGRAPHY		2 ND SEMESTER	POPULATION GEOGRAPHY- 4 TH UNIT	ADVANCED CLIMATOLOGY – 1 ST 2 ND 3 RD , 4 TH UNIT		
95.	MA/M.Sc- in GEOGRAPHY		3 RD SEMESTER		OCEANOGRAPHY- 1 ST 2 ND 3 RD 4 TH UNIT AGRICULTURAL GEOGRAPHY- UNIT 4 TH INDUSTRIAL GEOGRAPHY- UNIT 4 TH		
96.	MA/M.Sc- in GEOGRAPHY		4 TH SEMESTER		ENVIRONMENTAL GEOGRAPHY- 1 ST , 2 ND , 3 RD , 4 TH UNIT		
97.	BA/B.Sc in Geography		PART 1	HUMAN GEOGRAPHY – UNIT 1 ST , 4 TH	PHYSICAL GEOGRAPHY- UNIT 1 ST , 2 ND 3 RD , 4 TH		
98.	BA/B.Sc in Geography		PART 2		REGIONAL GEOGRAPHY OF WORLD- UNIT 2 ND		

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					GEOGRAPHY OF INDIA- UNIT 1 ^S		
99.	BA/B.Sc in Geography	PAPER 2	PART 3		EARTH DYNAMIC SYSTEM- 1 ST TO 4 TH UNIT		
100.	B.A.(Hindi)	1st paper- Adhunik kavya	1 st year	Jai shankar prasad(kamayni),Nirala(todti patthar), Raghuvir Sahay(padhiye gita), Sarveshwar Dayal Saxena(suhagin ke geet), Kedarnath Agrawal(virangna)			
101.	B.A.(Hindi)	2nd paper- Gadya sahitya vibhinn vidhayen	1 st year	Jai shankar prasad(purashkar), Amarkant(Dopahar ka bhojan), Prem Chandra(nirmala), Laxmi Narayan lal(vyaktigat), Bhuvneshwar(Shyama-ek vayvahik vidambana)	Prem Chandra(Gulli danda), Chandra dhar sharma guleri(Usne kaha tha), Bhishma sahni(chief ki dawat), Chitra Mudgal(Bhookh), Shiv murti(siri upma jog), Upendra nath ashk(tauliye)		
102.	B.A.(Hindi)	1 st Paper- Madhya kalin kavya	2 nd year	Vidyapati (shrangar kavya parampara aur vidyapati), Kabir das(Kabir ki bhakti, Samaj chetna aur bhasha), Soordas(Soordas me vatsalya aur shrangar), Tulsidas(lokmangal aur samanvayyatmak dristi)	Kabir (Sanchipt jivan vratt aur rachnayen), Soordas , Tulsi das(Ramcharit manas - Ayodhya kand), Jaysi(jaysi ke kavya me prem, virah varnan aur prakrit chitran)		
103.	B.A.(Hindi)	2nd Paper- Hindi sahitya ka itihās	2 nd year	Sant sahitya aur kabir, sant sahitya ki pramukh			

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				visheshtayen,keshav, matiram, dev , Bihari aur ghananand, Dwivedi yug aur navjagran, natak, rangmanch,upanyas ,kahani			
104.	B.A.(Hindi)	1st Paper- Kavya bhasha evam hindi bhasha	3 rd year		Sahityik prakrat,poorvi aur paschmi hindi ki boliyaan ,khetriy vistaar		
105.	B.A.(Hindi)	2nd Paper- Bhartiya evam paschatya kavya shashtra evam hindi alochna	3 rd year	Vimarsh-Dalit ,stri,sanskriti,prachyawaad	Vimarsh-dalit stri, sanskriti ,prachyawaad(sanchi pt parichay		
106.	B.A.(Hindi)	3rd Paper- Prayojanmulak hindi	3 rd year				
107.	M.A.(Hindi)	HIN-511	1 st semester	Vidyapati: Vyakhya evam alochnatmak addhyan, Hindi sant kavya parampara aur kabir ka sahitya			
108.	M.A.(Hindi)	HIN-512	1 st semester				
109.	M.A.(Hindi)	HIN-513	1 st semester		Vishesh sandarbh: (kesav,dev,chintaman i,bhikharidas:kavya lakchan aur kavi sikcha)		
110.	M.A.(Hindi)	HIN-514	1 st semester	Pramukh sant kaviyon ke sandarbh me sant mat ka	Nirgun bhakti aur sufi sadhna paddhati ka		

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				sanskritik aur sahiyik mulyankan, Premakhyan kavya ke pramukh kavi aur kavya kriti, ram bhakti dhara	antarsambandh, asthchaap aur uske kavi		
111.	M.A.(Hindi)	HIN-515	1 st semester				
112.	M.A.(Hindi)	HIN-516	2 nd semester	Krishna kavya ki parampara, Bramargeetsaar, Meera bai(meera aur unka kavya), Tushi das (ram kavya me prabandh aur giti tatva)	Kriahna parampara aur soordas, Keshav ki pramukh visheshtayen,ram kavya me prabandh aur giti kavya		
113.	M.A.(Hindi)	HIN-517	2 nd semester	Swatantottar rang drishti aur Mohan rakesh: Ashad ka ek din, Agyey ke yatra vritant “ek boond sahsha uchhali”, Hariyansh rai bachhan ki atmkatha: kya bhulu kya yaad karu			
114.	M.A.(Hindi)	HIN-518	2 nd semester	-			
115.	M.A.(Hindi)	HIN-519	2 nd semester	Chayavaad: Andollan aur unke pramukh kavi, Prayogvaad aur nayi kavita, Kahani vidha ka vikas, Samkaleen vimarsh			
116.	M.A.(Hindi)	HIN-520	2 nd semester	Loksahitya: Paribhasha, visheshtayen, loksahitya aur lokmanas, janpadeey boliyon ke pramukh natkon ka sanchhipt parichay	Lok sahiya ka vargikaran (lokgeet, lokgatha, loknatak, lokkatha), Lokkathao se sambaddh paribhashik shabdavali, parikathayen		

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117.	M.A.(Hindi)	HIN -521	3 rd semester	Ram kavya Parampara aur saket , kamayani: shraddha sarg, Mahadevi ki nirdisht kavitayen	Ram kavya Parampara aur saket(Rashtreey chetna yugeen adarsh), niralaa aur chayavaad, Ram ki shakti pooja, Pant ki kavya yatra ke vibhinn sopan		
118.	M.A.(Hindi)	HIN-551	3 rd semester				
119.	M.A.(Hindi)	HIN-563	3 rd semester	Patrakarita ki avdharna aur uske vividh roop, Hindi patrakarita ka udbhav aur vikas: Hindi patrakarita, swatantrata andolan aur pratibandhan ka itihas, bharteey samvidhan me pradatt maulik adhikar, soohnadhikar evam manvadhikar	Patrakarita ki avdharna aur uske vividh roop, Hindi patrakarita ka udbhav aur vikas: Hindi patrakarita, swatantrata andolan aur pratibandhan ka itihas, bharteey samvidhan me pradatt maulik adhikar, soohnadhikar evam manvadhikar, Press sambandhi pramukh kanoon tatha achar sanhita, prajatantrik vyavastha me chaturth stambh ke roop me patrakarita ka dayitva		

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120.	M.A.(Hindi)	HIN-522	3 rd semester		Pracheen evam madhyakaleen aryabhashaon ka ati sanchhipt parichay, apbhransh, avhatt tatha purani hindi ki tulnatmak visheshata, avadhi, braj, khadi boli, Bhojpuri, kumayuni, Marvadi aadi boliyon ka sanchhipt parichay		
121.	M.A.(Hindi)	HIN-523	3 rd semester	Hindi ke vibhinn sahyik andolan, vichardharyen aur sahitya, manav mulya aur sahitya, sahyia aur Sanskrit, samkaleen asmitayen aur hindi sahyia	Nibandh kya hai? Bharateey evam pashchatya drishtikon, nibandh aur gadya vidhayen, nibandh ka Vishay chhetra: sahyik aur sahityetar		
122.	M.A.(Hindi)	HIN-524	4 th semester	Hindi Kavita ka sathottari paridrashya aur dhumil, Patkatha: vyakhya aur alochna, Vijay Dev Narayan Shahi(ab prarthana: guru kabir das ke liye)	Chayavadottar kavita: Prashtbhumi aur paridrashya, agyey aur tarsaptak, Asadhya veena: vyakhya aur mulyakan		
123.	M.A.(Hindi)	HIN-576	4 th semester				
124.	M.A.(Hindi)	HIN-577	4 th semester				
125.	M.A.(Hindi)	HIN-580	4 th semester	Hindi ke pramukh upanyashon ka samajshashtreey vishleshan:	sahitya ke pramukh samajshashtri aur		

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				gora godan, rah gayi dishayen isi par(sanjeev)	unki avdharnayen(Pashcha tya samajshatri:Adolf ten, Lio Laventhal, luciye goldman, raymand Williams, Bharteey samajshatri: D.D. koshambi, P.C. joshi, Shyam charan dubey, B.R. ambedkar)		
126.	M.A.(Hindi)	HIN-582	4 th semester	Hindi aur urdu ka adhunik sahitya(bhartendu aur haali yugeen kavya ka tulnatmak addhyan), Hindi aur urdu sahitya me samkaleen vimarsh(shtree vimarsh-kahani aur kavita)	Muhavaron aur kahavaton me samya, Hindi aur urdu ka arambhik sahitya(Hindi aur urdu ke sajha kavi ameer khusron), Hindi aur urdu sahitya me samkaleen vimarsh(dalit aur pichhada vimarsh tatha pasandida sahitya)		
127.	M.A.(Hindi)	HIN-586	4 th semester				
128.	M.A.(Medieval H istory)	HIS 556	Semester II	Women movement in West(UNIT-III)	-	-	-
129.	M.A. (Medieval H istory)	HIS 562	Semester II	Harry S. Truman (UNIT-IV)			
130.	M.A. (Medieval History)	HIS 562	Semester II		Franklin d Roosevelt 'New Deal Policy'(UNIT-III)		

Cross-cutting issues table

131.	M.A.(Medieval History)	HIS 60I	Semester III	The Early Turks (UNIT-II)			
132.	B.A.(Medieval History)	I Paper	1 st Year	Indian Culture	Indian Culture	Indian Culture	
133.	B.A.(Medieval History)	II Paper	2 nd Year			Renaissance	
134.	B.A.(Medieval History)	III Paper	3 rd Year	Freedom movement of India (UNIT-V)			
135.	B.A. (Political Science)	I Paper	1 st Year			Liberty, Equality, Right, Law, Justice.	Liberty, Equality, Right, Law, Justice.
136.	B.A. (Political Science)	II Paper	1 st Year			Democracy, Socialisation	Constitutionalism
137..	B.A. (Political Science)	I Paper	2 nd Year			Justice, Education, Citizenship, Morality	Justice, Education, Citizenship, Morality
138	B.A. (Political Science)	II Paper	2 nd Year			Political Culture, Political Socialization	Local Self Government
139.	B.A. (Political Science)	I Paper	3 rd Year	-	-	-	-
140.	B.A. (Political Science)	II Paper	3 rd Year	Welfare Administration of women	-	-	
141.	B.A. (Political Science)	III Paper	3 rd Year		Problem of third world security	Globalization	-
142.	M.A. (Psychology)	PSY 531	Semester I				UNIT I: Ethics in experimentation on human subjects
143.	M.A. (Psychology)	PSY 502	Semester I	Unit III: Achievement		UNIT IV :positive Psy	
144.		PSY 504	Semester I				Unit III: Ethical issues in research

Cross-cutting issues table

145.	M.A. (Psychology)	PSY 506	Semester II	UNIT III- Self Concept UNIT IV- Attitude change	UNIT IV Group Processes		
146.	M.A. (Psychology)	PSY 507	Semester II	Unit I &II		Unit I to V Human values	
147.	M.A. (Psychology)	PSY 508	Semester II		Unit II- Physical environment Unit III- Processes of person environment UNIT IV- Environmental Stressors		
148.	M.A. (Psychology)	PSY 532	Semester II				UNIT III Ethical issues in Practicing Interview skills
149.	M.A. (Psychology)	PSY 653	Semester III	Unit V Theories of gender Socialization			Unit IV Moral Development
150.	M.A. (Psychology)	PSY 651	Semester III	UNIT III gender and sociocultural factors in health			
151.	M.A. (Psychology)	PSY 659	Semester III	Unit V Emerging issues - gender		Unit IV Organizational culture	Unit IV Organizational culture
152.	M.A. (Psychology)	PSY 654	Semester IV	Unit III Dev in childhood			
153.	M.A. (Psychology)	PSY 660	Semester IV	Unit I: immediate context and HRM			
154.	M.A. (Psychology)	PSY 652	Semester IV			Unit I Concept of stress in Indian and western tradition	

Cross-cutting issues table

155.	B.A. (Psychology)	Paper I	I year				Unit I Ethics in Psychology
156.	B.A. (Psychology)	Paper-III	I Year				Unit I Ethics in experiments
157.	B.A. (Psychology)	Paper I	II Year	Unit VI gender differences in psycho pathology			Unit IX & X Ethics in psychotherapy
158.	B.A. (Psychology)	Paper II	II Year	Unit III self and gender identity		Unit IV Aggression, reasons of aggression, social learning theory	
159.	B.A. (Psychology)	Paper III	II Year				Unit I Ethics in experiments/testing
160.	B.A. (Psychology)	Paper I	III Year	Unit V Gender socialization			
161.	B.A. (Psychology)	Paper III	III Year				Unit VIII Ethical issues in psychological research
162.	B.A. (Psychology)	Paper III	III Year				Unit I Professional ethics in therapy
163.	B.A. (Psychology)	Paper IV	III Year			Unit C Understanding of child behaviour	Unit A, B, C Ethics in Research
164.	B.A. I(Sanskrit)	Paper I	1 st Year	Abhigyansakuntal	Abhigyansakuntal	Abhigyansakuntal	
165.	B.A. I(Sanskrit)	Paper II	1 st Year	Kiratarjuniyam		Neetishatak	Kiratarjuniyam
166.	B.A. II(Sanskrit)		2 nd Year		Kadambari		
167.	B.A. II(Sanskrit)				Meghdoot	Veda	Kathopnishad
168.	B.A. II(Sanskrit)					Kathopnishad	

Cross-cutting issues table

169.	B.A. III(Sanskrit)		3 rd Year		Uttarramcharitam	Uttarramcharitam	
170.	M.A. (Sociology)	SOC-504	I Semester	Changing women in Indian society		Shrimadbhagwadgita	Shrimadbhagwadgita
171.	M.A. (Sociology)	SOC-506	II semester	Feminist Perspective- Sharmila Rege.	Ecological Perspective- Ramchandra Guha.		
172.	M.A. (Sociology)	SOC-507	II semester	Development And Gender	Sustainable Development, Sustainable agriculture.	Human Development, Happiness	
173.	M.A. (Sociology)	SOC-552	II Semester		Urban pollution and environmental concerns, Urban ecology		
174.	M.A. (Sociology)	SOC- 609	III Semester	Gender and Exclusion		Justice	
175.	M.A. (Sociology)	SOC- 657	III Semester	Women's Movement	Environmental Movement	Dalit Movement	Leadership and Movement
176.	M.A. (Sociology)	SOC-610	IV Semester				Ethics in Social Sciences
177.	M.A. (Sociology)	SOC-659	IV Semester	Family and Health care: The elderly, gender, maternal and child health			
178.	M.A. (Sociology)	SOC-662	IV Semester	Feminist Perspective- Brian Skeggs			
179.	B.A. (Sociology)	I Paper	B.A. II		Environmental Movement (Chipko)		
180.	B.A. (Sociology)	II Paper	B.A. II	Gender Issues			
181.	B.A. (Sociology)	III Paper	B.A. III	Crime against Women	Environmental Degradation, soil waste management and sanitation		

Cross-cutting issues table

					concerns in urban space, Environmental Concerns : ChipkoAndolan , Narmada BacchaoAndolan, Namami Gange		
182.	B.A. (Urdu)	I Paper	B.A. I		Nazm		
183.	B.A. (Urdu)	II Paper	B.A. I	Afsana			
184.	B.A. (Urdu)	II Paper	B.A. II		Novelet		
185.	B.A. (Urdu)	I Paper	B.A. III		Qaseeda	Marsiya	
186.	M.A.(Urdu)	URD-501	I	Ghazal			Ghazal
187.	M.A.(Urdu)	URD-502	I			Masvi	
188.	M.A.(Urdu)	URD-503	I		Qaseeda		
189.	M.A.(Urdu)	URD-504	I			Marsiya	
190.	M.A.(Urdu)	URD-505	I			History	
191.	M.A.(Urdu)	URD-511	II	Ghazal			
192.	M.A.(Urdu)	URD-512	II		Nazm		
193.	M.A.(Urdu)	URD-513	II			Novel	
194.	M.A.(Urdu)	URD-514	II				Fiction writing
195.	M.A.(Urdu)	URD-515	II	Drama			Drama Stage
196.	M.A.(Urdu)	URD-601	III			Classic Hist.	
197.	M.A.(Urdu)	URD-602	III			sketch	writing
198.	M.A.(Urdu)	URD-603	III			tanqueed	
199.	M.A.(Urdu)	URD-651/ URD-652	III			Ghalib	
200.	M.A.(Urdu)	URD-653// URD-654	III			Iqbal	
201.	M.A.(Urdu)	URD-611	IV	shayeri			
202.	M.A.(Urdu)	URD-612	IV		Tanqueed	Tanqueed	
203.	M.A.(Urdu)	URD-613	IV				
204.	M.A.(Urdu)	URD-614/ URD-615	IV			Dastan	

Cross-cutting issues table

205.	M.A.(Urdu)	URD-616/ URD-617	Iv		Tanz		
206.	B.Sc. (Zoology)	Paper I	Second Year		Ecology: <ul style="list-style-type: none"> • Biogeochemical Cycles • Environmental Pollution Wild life conservation		
207.	B.Sc. (Zoology)	Paper III	Second Year	Genetics: Human chromosomes & human chromosomal abnormalities Sex Determination in man			
208.	B.Sc. (Zoology)	Paper II	Third Year		Environmental Biology: 1.Environmental pollution 2.Environmental degradation 3.Environmental health 4.Deforestation & desertification 5.Radiation biology 6.Ecotoxicology 7.Natural calamities		
209.	M.Sc. (Zoology)	Zoo 506	Second		Ecology: Unit II Biodiversity Unit IV Biogeochemical cycles		

Cross-cutting issues table

210.	M.Sc. (Zoology)	Zoo 561	Third		Environmental Biology		
211.	M.Sc. (Zoology)	Zoo 572	Fourth		Environmental Biology		
212.	M.Sc. (Zoology)	Zoo 573	Fourth		Environmental Biology		
213.	M.Sc. (Zoology)	Zoo 574	Fourth		Environmental Biology		
214.	Pre.Ph.D (Zoology)	First	-----				Bioethics
215.	LL.B.(HONS)	Paper-III	SEM-1	UNIT-3(MAINTENANCE OF WIFE WITH SPECIAL REFERNCE TO MAINTENANCE AFTER DISSOLUTION OF MARRIAGE			
216.	LL.B.(HONS)	Paper-II	SEM-1		UNIT-1 ENVIRONMENT AND POLLUTION UNIT-2 PRINCIPLES RELATED TO ENVIRONMENTAN D DEVELOPMENT UNIT-3 LEGISLATION RELATING TO ENVIRONMENT UNIT-4 ENVIRONMENT PROTECTION ACT(1986)		

Cross-cutting issues table

217.	LL.B.(HONS)	Paper-III	SEM-2	UNIT 2-MATRIMONIAL REMEDIES UNIT 4- SUCCESSION OF A MALE HINDU AND FEMALE HINDU UNDER HINDU SUCCESSION ACT,1956			
218.	LL.B.(HONS)	Paper-V	SEM-2	UNIT-1 FUNDAMENTAL RIGHTS			
219.	LL.B.(HONS)	Paper-IV	SEM-2		UNIT-4 LAW OF SEA ,MARITIME ZONE AND HIGH SEA		
220.	LL.B.(HONS)	Paper-IV	SEM-3	UNIT-4 LEGISLATIVE MEASURES FOR COMPENSATION TO THE VICTIMS OF CRIME		UNIT 2- PREVENTIVE AND CORRECTIVE SYSTEM UNIT3- ALTERNATIVE TO PUNISHMENT	
221.	LL.B.(HONS)	Paper-V	SEM-4	UNIT 1- WOMEN'S RIGHTS JURISPRUDENCE UNIT 2- WOMEN AND CONSTITUTION OF INDIA UNIT3- DOMESTIC VIOLENCE ACT,2005		UNIT-1 WOMEN'S RIGHTS AND HUMAN RIGHTS	

Cross-cutting issues table

				UNIT 4- PROTECTION OF WOMEN ACCUSED UNDER CrPC AND EVIDENCE ACT			
222.	LL.B.(HONS)	Paper-V	SEM-5		UNIT 1- ENVIRONMENT AND IPR		
223.	LL.B.(HONS)	Paper-IV	SEM-6				UNIT 1- MEANING, NATURE AND ETHICS OF LEGAL PROFESSION
224.	LL.M.	Paper-I(Compulsary)	SEM-1	3-FUNDAMENTAL RIGHTS			
225.	LL.M.	Paper-II(optional, Group A)	SEM-2	B-OFFENCES AGAINST WOMEN AND CHILDREN			
226.	LL.M.	Paper-I (optional, Group B)	SEM-1		ENVIRONMENT AND INTERNATIONAL LEGAL ORDER		
227.	LL.M.	Paper-II (optional, Group B)	SEM-1		POLLUTION CONTROL LAWS IN INDIA		
228.	LL.M.	Paper-II (optional, Group C)	SEM-2		INTERNATIONAL ORGANIZATION		
229.	LL.M.	Paper-I(optional, Group B)	SEM-3			CONCEPT AND HISTORICAL DEVELOPMENT OF HUMAN	

Cross-cutting issues table

230.	LL.M.	Paper-II(optional, Group B)	SEM-3			INTERNATIONAL PERSPECTIVE OF HUMAN RIGHTS	
231.	LL.M.	Paper-III(optional, Group B)	SEM-3			INDIAN PERSPECTIVE OF HUMAN RIGHTS	
232.	B.A. & B.Sc. (Defence and Strategic Studies)	Paper-I	I Year	Collective Security	Environment related Protocol	Human Security	Techniques of conflict resolution
233.	B.A. & B.Sc. (Defence and Strategic Studies)	Paper-II	II Year	Women Studies	Energy Security	Food Security	Peace Studies
234.	B.A. & B.Sc. (Defence and Strategic Studies)	Paper-III	III Year	Human Rights	Impact of war	Refugee Problems	World Governance



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B.A. Part-1

Paper-I: Early Cultures and Civilizations of India

Unit-I	:	Definition of Archaeology and relation with other disciplines; Palaeolithic Cultures: Salient features with special reference to <u>Belan Valley & Son Valley</u> . <i>Gender, Geographical distribution X</i>
Unit-II	:	<u>Mesolithic Cultures</u> : Salient features with special reference to Vindhya, Ganga Plains. <u>Neolithic Cultures</u> : Salient features with special reference to North-West India, South India & Vindhya. <i>Professional Ethics</i>
Unit-III	:	Harappan Civilization: Origin, Salient features, decline.
Unit-IV	:	Chalcolithic Cultures – <u>Kayatha Culture</u> , <u>Ahar Culture</u> , <u>Malwa Culture</u> , <u>Jorwe Culture</u> & <u>Copper hoards</u> . <i>Gender</i>
UNIT-V	:	(a) <u>Iron Age</u> : Antiquity of Iron. <i>Professional Ethics</i> (b) Sites: <u>Bhagwanpura</u> , <u>Atranjikhera</u> , <u>Hastinapur</u> & <u>Kausambi</u> . <i>Professional Ethics</i>



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B.A. Part-1

Paper-II: History of India upto the Kushanas (C.600 B.C. - C. 319 A.D.)

Unit-I	:	Sources : Literary -Indian and Foreign Archaeological
Unit-II	:	Early State Formation: The Mahajanapadas ; Rise of Magadha from Bimbisara to Mahapadma Nanda. Alexander's Invasion, Monarchical States; Nature of Republics.
Unit-III	:	Mauryan Empire and its Decline: Magadhan Expansion in the time of Chandragupta Maurya - administration <u>Ashoka and his Dhamma</u> Human Value Decline of the Mauryan Empire.
Unit-IV	:	Political Fragmentation (C. 200 BC - AD 300): Early History of <u>Satavahanas</u> , Achievements of Pushyamitra Shunga and Gautamiputra Satkarni. Matriarchal Nature Gender Shaka-Satavahana Struggle.
UNIT-V	:	Foreign Invasions and Dynasties - Shakas & Kushanas : <u>Kanishka-I</u> : Date and Achievements Human Value



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B.A. Part-II

Paper-I: Outline of Ancient World Civilizations

Unit-I	:	Earliest Civilizations-I: Egyptian Civilization: Political development under the Pharaohs; Egyptian Religion & Art. <i>Human Value, Professional Gender Ethics</i>
Unit-II	:	Earliest Civilizations- II: Mesopotamian Civilizations : Salient features <i>Human Value</i> Sumerian Civilization <i>Gender</i> Babylonian Civilization <i>Professional Ethics</i> Assyrian Civilization
Unit-III	:	Greek Civilization: <u>Homeric Age</u> <i>Human Value</i> <u>Periclean Age</u> : Contribution of Pericles <u>Salient features of Hellenistic Civilizations.</u>
Unit-IV	:	Roman Civilization: Julius Caesar and Augustus -Their contributions Roman Culture: Law & Art, Roman Legacy. <i>Human Value</i> <u>Development of Christianity</u> under Roman Empire.
UNIT-V	:	Ancient Iran and China : Achaemenid Empire, <u>Zarathustra</u> and his reforms, Parthian Civilization, Chin Periods : Shih Huang Ti <i>Human Value</i> <u>Confucius.</u>



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B.A. Part-II

Paper-II: History of Ancient India (C 319 AD to 1200 AD)

Unit-I	:	Gupta Dynasty: : Gupta Rulers their achievements : Chandragupta-I, Samudragupta, Chandragupta-II, Kumargupta I, Skandagupta, Decline of the Guptas.
Unit-II	:	<u>Vakataka-Gupta Relation</u> , Huna Invasion. <i>Gender</i>
Unit-III	:	<u>Harsha Career and Achievements</u> ; relation with contemporary rulers (Harsha's relation with Pulakesin-II) <i>Human Value</i>
Unit-IV	:	Gurjara-Pratihara, Pala & Rastrakuta : Political History of Gurjara Pratihara, Pala and Rastrakuta, Tripartite struggle.
UNIT-V	:	South Indian Dynasties: Political History of <u>Pallavas</u> , Political History of <u>Chalukyas</u> of Vatapi, <u>Chola</u> Dynasty; Political History, Administration. <i>Human Value</i> <i>Professional Ethics</i> <i>Gender</i>



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B.A. Part-III

Paper-I: Indian Culture

Unit-I	:	Foundation of Indian Culture: Sources of Study, Definition and Characteristics. <u>Vedic Culture.</u>	<i>Human Value</i>
Unit-II	:	Main Features of Ancient Indian Society: <u>Varnasrama System</u> <u>Ancient Indian Education System & Centers:</u> Taxila and Nalanda. Position of Women <u>Guilds and their roles</u>	<i>Human Value</i> <i>Professional Ethics</i>
Unit-III	:	Ancient Indian Religions: <u>Saivism</u> <u>Vaisnavism</u> <u>Jainism</u> <u>Buddhism</u>	<i>Human Value</i> <i>Gender</i>
Unit-IV	:	Socio-Spiritual Streams: <u>Sankaracharya</u> <u>Bhakti Movement</u>	<i>Human Value</i>
UNIT-V	:	Interaction between Islam and Indian Society with special reference to impact on Indian Society.	<i>Human Value</i>



M.A. 1ST SEMESTER

COURSE CODE: ANC-552(ELECTIVE)
Elements of Indian Archaeology: Prehistory
(Group-B: - Non-Archaeology)

UNIT-I

Methods and Technique

- a) Archaeology and Ethnography-definition and relationship with allied disciplines
b) Introduction to Archaeological field methods & techniques

UNIT-II

Palaeolithic Cultures of India

- a) Sohan
b) Belan
c) Son
d) Narmada

Crenates
Environmental Ethics

UNIT-III

Mesolithic Cultures of India

- a) Vindhya
b) Ganga Valley

Environmental Professional

UNIT-IV

Neolithic Cultures of India

- a) Northern India
b) Vindhya
c) Southern India

Environmental Ethics
Professional Ethics

UNIT-V

Transitional Phases

- a) Hunting, Gathering to Food Production
b) Food Production to Urbanization

Professional Ethics

Books Recommended

Agrawal, D.P. and Ghosh, A. (eds)	-	Radiocarbon and Indian Archaeology
Allchin, B.	-	Living Traditions: Studies in Ethno-Archaeology of South Asia
Chakrabarti, D. K	-	A History of Indian Archaeology from Beginning to 1947
Misra, V.D.	-	Some Aspects of Indian Archaeology
Misra, V.N. and Mate, M.S. (eds)	-	Indian Prehistory: 1964
Misra, V.D. and Pal, J.N.	-	Indian Prehistory: 1980
Pal, J. N	-	Archaeology of Southern Uttar Pradesh
Pande, G.C.	-	The Dawn of Indian Civilization
Pandey, J.N.	-	PuratattvaVimarsha
Renfrew, Colin	-	Approaches to Social Archaeology
Renfrew, Colin and Bahn, Paul	-	Archaeology: Theories, Methods & Practice
Sankalia, H.D.	-	Prehistory and Protohistory of India and Pakistan
Sharma, G.R.	-	K.C. Chattopadhyay Memorial Volume
Sharma, G.R, V.D. Misra, D. Mandal, B.B. Misra and J.N. Pal	-	Beginning of Agriculture
Varma, R.K.	-	BhartiyaPragaitihasaSanskritiyan
	-	-KshetriyaPuratattva
	-	-BhartiyaPragitihas (Methods andTechniques)

Different Numbers of *Puratattva*, Journal of Indian Archaeological Society, New Delhi
Different Numbers of *Ancient India*, Bulletin of Archaeological Survey of India, New Delhi
Different Numbers of *Man and Environment*, Journal of Indian Society for Prehistoric and Quaternary Studies, Pune



M.A. 1ST SEMESTER
COURSE CODE: ANC-503(CORE)
Indian Palaeography

UNIT-I

- a) Inscriptions for Transliteration
- Rumindei
 - Girnar (First six lines) (Asokan edict)
 - Reh Inscription
 - Ayagapatta Inscription of Kausambi
 - Ayodhya Inscription of Dhanadeva
 - Mehrauli Iron Pillar Inscription
 - Gandhakuti Lotus Lamp Inscription from Kausambi
- b) Coins – Gold Coins of Samudragupta
- c) Translation from Devanagari to Brahmi of the given period (Maurya, Kushana, Gupta)

Human Value
Professional Ethics

UNIT-II

Origin and Antiquity of Writing in India

- a) Indus Script- its nature, problem of its decipherment
- b) Kharosthi Script – Origin and Development

UNIT-III

Development of Brahmi through different phases

- a) Origin and antiquity of Brahmi Script
- b) Features of Mauryan Brahmi
- c) Brahmi of Sunga Satvahana inscriptions

Profession of Ethics

UNIT-IV

Development of Brahmi through different phases

- a) Brahmi of Saka-Kshatrapa inscriptions
- b) Brahmi of the Kushan inscriptions

UNIT-V

Gupta and Post Gupta Brahmi

- a) Brahmi of the Gupta period
- b) Development of Brahmi from Kutila to Nagari script
- c) Beginning of the Southern alphabets

Books Recommended

Aiyar,gar, S.K.	-	<i>The Historical Inscriptions of South India</i>
Buhler, J.G.	-	<i>Indian Palaeography</i>
Burnell, A.C.	-	<i>Elements of South Indian Palaeography</i>
Dani, A.H.	-	<i>Indian Palaeography</i>
Ojha, G.H.	-	<i>PrachinBhartiyaLipimala</i>
Pandey, R.B.	-	<i>Indian Palaeography, Part I</i>
Sircar, D.C.	-	<i>Select Inscriptions 2 Vols</i>
Sharma, G.R.	-	<i>Reh Inscription and Indo-Greek Invasion of the Ganga Valley</i>
Upasak, C.S.	-	<i>The History and Palaeography of Mauryan Brahmi</i>
Verma, T. P.	-	<i>Palaeography of Brahmi Script in North India</i>
Roy, S.N.	-	<i>BhartiyaPuralipi Evam Abhilekh</i>



M.A. 1ST SEMESTER
COURSE CODE: ANC-502(CORE)
Political History of Ancient India
(From 6th Century B.C. to C. 185 B.C.)

Note: To be taught with special reference to its Epigraphic and Numismatic basis.

UNIT-I

Sources

- Literary Sources: Indigenous and foreign
- Epigraphy as a source of Political History
- Numismatics as a source of Political History

UNIT-II

Beginnings of Historical Age

- Role of Buddhism and Jainism in the formation of kingship and state
- Political formation and second urbanization
- Mahajanapadas-Monarchical and republican states of sixth century B.C.

Human Value
Professional Ethics
Professional Ethics

UNIT-III

Pre-Mauryan Period

- Persian invasion and its impact
- Rise of Magadha from Bimbisara to the Nandas
- Origin of the Nandas and achievements of Mahapadmananda
- Macedonian invasion and its impact

UNIT-IV

Mauryan Period

- Origin of Mauryas, achievements of Chandragupta Maurya and Bindusara
- Ashoka: Extent of empire, Dhamma and its propagation and estimate
- Mauryan administration
- Decline of the Mauryas

Human Value

UNIT-V

Inscriptions Prescribed for Epigraphic study

Inscriptions of Asoka:

- Bhabru Edict
- Thirteenth Rock Edict
- Seventh Pillar Edict
- Minor Rock-Edict-I
- Girnar Rock Edict

Human Value

Books recommended

Bhandarkar, D.R.	- Asoka
Jha, D.N. & Shrivastava, K.M.	- Prachin Bharat Ka Itihasa
JayarajBhoy	- Alexander's Invasion and its Impact
Mookerjee, R.K.	- Chandragupta Maurya and His Times
Majumdar, R.C	- Age of Imperial Unity
Narain, A.K.	- The Indo-Greeks
Neel, J.S.	- Groundwork of Ancient Indian History
Pandey, R.N.	- Prachin Bharata Ka Rajanitika Itihasa
Rapson, E.J. (Ed.)	- Cambridge History of India-Vol. -1
Raychaudhuri, H.C.	- Political History of Ancient India
Shastri, K.A.N. (Ed.)	- Age of the Nandas and Mauryas
Sircar, D.C.	- Select Inscriptions (IInd Ed.)
Sharma, G.R.	- Reh Inscription of Menander and the Indo-Greek Invasion of the Ganga Valley.
Thapar, Romila	- Asoka and Decline of the Mauryas



M.A. IIND SEMESTER
COURSE CODE: ANC-504(CORE)
Aspects of Ancient Indian Culture:
(Religion, Philosophy, Literature and Art)

UNIT-I
Sources, Approaches and Early History of Religion

- Indus Religion
- Vedic Religion
- Buddhism and Jainism

UNIT-II
Later Religions

- Vaisnavism
- Saivism: Pashupata, Lingayata and other sub-sects.
- Other minor sects: Ajivaka, Saura, Shakta

UNIT-III
Philosophy

- Upanisad
- Bhagavadgita
- Sankhya and Yoga
- Vedanta (Shankara & Ramanuja)

UNIT-IV
Literature

- Date, Authorship, Nature, Content and Historical Significance of Manusmriti
- Kautilya's Arthashastra - Date, Authorship and Nature
- Milindapanho - Historical Significance
- Date of Kalidasa - Historical Significance of Malvikagnimitram

UNIT-V

Art

- Maurya and Sunga Art - Ashokan Pillars, Stupas of Sanchi and Bharhut
- Kushana Art: Gandhara and Mathura School of Art
- Gupta Art: Temple Architecture

Whole course
contains Human
value 1

Professional
Ethics
Environmental
Ethics

Professional
Ethics

Books Recommended

Agrawal, V.S.	-	Indian Art (Hindi Translation)
Allchin, B and F.R.	-	Rise of Civilization in India and Pakistan
Aurobindo	-	Foundation of Indian Culture
Basham, A.L.	-	The Wonder that was India
	-	A Cultural History of India (ed.)
Bhandarkar, R.G.	-	Vaisnavism, Saivism and Minor Religious System (Hindi Translation)
Geeta Devi	-	Prachin Bharat Mein ShikshaVyavastha
Hiriyanna, M	-	Concept of Indian Values
	-	Outline of Indian Philosophy
Gupta, Shiv Kumar	-	Bharatiya Chintan Ka Itihas
Kosambi, D.D.	-	The Culture and Civilization of Ancient India In Historical Outline
Mishra, Jaishankar	-	Prachin Bharat Ka SamajikItihas
Pande, G.C.	-	Foundations of Indian Culture
	-	Baudha Dharma KeVikash Ka Itihas
	-	Meaning and Process of Culture
Pandey, R.B.	-	Hindu Samskaras
Prabhu, P.H.	-	Hindu Social Organizations
Radha Krishnan, S	-	Indian Philosophy, 2 Vols.
Rowland, Benjamin	-	Art and Architecture of India
Sharma, R.S.	-	Aspects of Political Ideas and Institutions in Ancient India (Tr.)
	-	Sudras in Ancient India (Hindi Tr.)
	-	Material Culture and Social Formations in Ancient India(Hindi Tr.)
Thapar, Romila	-	Cultural Pasts-Essays in Early Indian History
Tripathi, R.P	-	Studies in Political and Socio-Economic History of Early India
Winternitz, M.	-	History of Indian Literature - Vols. I & II
Yadava, B.N.S	-	Society and Culture in Northern India in the Twelfth Century A.D.



M.A. IIND SEMESTER
COURSE CODE: ANC-505(CORE)
Political History of Ancient India
(From C. 185 B.C. to 319 A.D.)

UNIT-I

Sources

- Literary Sources: Indigenous and foreign
- Epigraphy as a source of Political History
- Numismatics as a source of Political History

Professional Ethics

UNIT-II

Post Mauryan Period

- The Sungas and the Kanvas
- Yavanas (Indo-Greeks)
- Chedis of Kalinga - Kharavela

UNIT-III

Sakas and Satvahanas

- Origin and early history of Satvahanas
- Achievements of Gautamiputra Satkarni
- Achievements of Vashishtiputra Pulumavi
- Achievements of Rudradaman-I

Gender

Human Value

UNIT-IV

Kushanas

- Origin and history of early Kushanas
- Kanishka I: Extent of the empire, date, cultural achievements
- Successors of Kanishka-I: Vashishka, Huvishka, Kanishka-II, etc.
- India on the eve of the rise of the Guptas

UNIT-V

Inscriptions Prescribed for Epigraphic Study:

- Ayodhya inscription of Dhanadeva
- Besanagar inscription of Heliodorus
- Hathigumpha cave inscription of Kharavela
- Nasik cave inscription of Vasisthiputra
- Junagarh inscription of Rudradaman-I
- Rebtak inscription of the first year of Kaniska-I

Human Value

Gender

Human Value

Books Recommended

Jha, D.N. & Shrimali, K.M.	-	Prachin Bharat Ka Itihasa
Majumdar, R.C.	-	Age of Imperial Unity
Narain, A.K.	-	The Indo-Greeks
Negi, J.S.	-	Groundwork of Ancient Indian History
Pandey, R.N.	-	Prachin Bharata Ka Rajanitikaitihasa
Rapson, E.J. (Ed.)	-	Cambridge History of India-Vol. I
Raychaudhuri, H.C.	-	Political History of Ancient India
Sircar, D.C.	-	Select Inscriptions (11nd Ed.)
Sharma, G.R.	-	Reh Inscription of Menander and Indo-Greek Invasion of the Ganga Valley
Thapar, Romila	-	Asoka and Decline of the Mauryas



M.A. IIND SEMESTER
COURSE CODE: ANC-506(CORE)
Indian Numismatics

UNIT-I

Origin and Early Coinage

- a) Origin and Antiquity of Coinage in ancient India
- b) Punch-Marked Coins
- c) Uninscribed cast copper coins

UNIT-II

Local Coins:

- a) Coins of Yaudheya, Arjunayana, Malava and Audumbara
- b) Coins from Taxilla, Panchala, Kaushambi, Ayodhya
- c) Indo-Greek coins

UNIT-III

Dynastic Coins

- a) Satvahana coins
- b) Saka-Pahlava coins
- c) Kushana Coinage:

UNIT-IV

Gupta Coinage:

- a) Gold,
- b) Silver
- c) Copper coins

UNIT-V

Early Medieval Coinage

Early Medieval Coinage: Problem of the paucity of Coinage

Professional Ethics
Human Value
Gender

Books Recommended

Chattopadhyaya, B.D.	-	Coins and Currency System of Southern India
Gupta, P.L.	-	BharatiyaSikke
Sircar, D.C.	-	Studies in Indian Coins
RaizadaAjit	-	BhartiyaSikkon Ka Itihas
Singh, A.S.	-	Bharat Ki PrachinMudrayen
Sharma, I.K.	-	Coinage of the Satavahana Empire



M.A. IIND SEMESTER

COURSE CODE: ANC-554(ELECTIVE)

Elements of Indian Archaeology: Proto-History and Historical Archaeology
(Group-B: -Non-Archaeology)

UNIT-I

Harappan

- a) Antecedents
- b) Main features
- c) Decline

*Gender
Environmental Ethics
Professional Ethics*

UNIT-II

Non-Harappan Chalcolithic Culture

- a) Kaytha
- b) Ahar
- c) Navdatoli (Malwa)
- d) Jorwe
- e) Copper-Hoards

*Gender
Professional Ethics
Environmental Ethics*

UNIT-III

Antiquity of Iron

- a) Archaeological evidence
- b) Literary evidence

Professional Ethics

UNIT-IV

Iron Age Cultures of North India

- a) P.G.W.
- b) N.B.P.W.

Professional Ethics

UNIT-V

Iron Age Culture of South India

- a) Megalithic Cultures
- b) India's contact with the Roman world

*Environmental Ethics
Professional Ethics*

Books Recommended

Agrawal, D.P.		<i>Copper, Bronze Age in India</i>
Agrawal, D.P. and Ghosh, A. (eds)		<i>Radiocarbon and Indian Archaeology</i>
Allchin, B.		<i>Living Traditions: Studies in Ethno Archaeology of South Asia</i>
Allchin, F.R.		<i>Archaeology of Early Historic South Asia: The Emergence of city and State</i>
Banerjee, N.R.		<i>The Iron Age in India</i>
Chakrabarti, D.K.		<i>A History of Indian Archaeology from Beginning to 1947</i>
Ghosh, A.		<i>The City in Early Historical India</i>
Lal, B.B.		<i>Early Civilization of South Asia</i>
Misra, V.D.		<i>Some Aspects of Indian Archaeology</i>
Misra, V.N. and Mate, M.S. (eds)		<i>Indian Prehistory: 1964</i>
Misra, V.D. and Pal, J.N.		<i>Indian Prehistory: 1980</i>
Pal, J.N.		<i>Archaeology of Southern Uttar Pradesh</i>
Pande, G.C.		<i>The Dawn of Indian Civilization</i>
Pandey, J.N.		<i>PuratattvaVimarsha</i>
Ram Chandran		<i>Bibliography of Indian Megaliths</i>
Ratnagar, Shirin		<i>Decline of Harappan Civilization</i>
Renfrew, Colin		<i>Approaches to Social Archaeology</i>
Renfrew, Colin and Bahn, Paul		<i>Archaeology: Theories, Methods & Practice</i>
Sankalia, H.D.		<i>Prehistory and Protohistory of India and Pakistan</i>
Sharma, G.R.		<i>Excavations at Kausambi (1957-59) K.C. Chattopadhyay Memorial Volume</i>
Sharma, G.R., V.D. Misra, D. Mandal, B.B. Misra and J.N. Pal		<i>Beginning of Agriculture</i>
Thaplyal, K.K.		<i>Sindhu Sabhyata</i>
Tripathi, Vibha		<i>Painted Grey Ware and Iron Age Cultures of Northern India</i>
Varma, R.K.		<i>BhartiyaPragaitihāsikaSanskritiyan</i>
		<i>-KshetriyaPuratattva</i>
		<i>-BhartiyaPragaitihās (Methods andTechniques)</i>
Wheeler, R.E.M.		<i>Indus Civilization</i>

Different Numbers of *Puratattva*, Journal of Indian Archaeological Society, New Delhi

Different Numbers of *Ancient India*, Bulletin of Archaeological Survey of India, New Delhi

Different Numbers of *Man and Environment*, Journal of Indian Society for Prehistoric and Quaternary Studies, Pune



Department of Ancient History, Culture and Archaeology, University of Allahabad, Allahabad - 211002
CBCS SYLLABUS - 2017-18

M.A. Semester-III
Course Code: 602 (Core)
Theories of History

- UNIT-I: History and Introduction:
a) Origin
b) Definition
c) Relation with Social-Sciences

- UNIT-II: Scope:
a) Nature
b) Subject Matter
c) Utility

Professional Ethics

- UNIT-III: Historical Methodology:
a) Problems related to Indian Historiography
b) The issue of objectivity in History
c) Is History Science?

- UNIT-IV: Vedic Historiography:
a) Gatha Narasamsi
b) Akhyani
c) Danstuti

Human Value

- UNIT-V: Modern Historiography of Ancient India:
a) R. G. Bhandarkar
b) R. C. Majumdar
c) G. C. Pandey

Human Value

Books Recommended:

Carr, E.H.	-	What is History, London
Collingwood, R.G.	-	The Idea of History, Oxford
Gardiner, P. (Ed.)	-	Theories of History
Ghoshal, U.N.	-	Studies in Indian History and Culture
Gooch, G.P.	-	History and Historians in the Nineteenth Century
Jenkins, Keith	-	Rethinking History
Kolle V. and Kovalson, M.	-	Historical Materialism
Marwick, Arthur	-	The New Nature of History
Om Prakash	-	Conceptualization and History
Pande, G.C. (Ed.)	-	Itihasa: Svarupa Evam Siddhanta
Pathak, V.S.	-	Ancient Historians of India
Philips, C.A. (Ed.)	-	Historians of India, Pakistan and Ceylon
Reinor, G.	-	History: Its Purpose and Methods
Sreedharan, E.	-	A Textbook of Historiography: 500 B.C. to A.D. 2000 (Hindi Translation Available)
Walsh, E.	-	Philosophy of History
Wardar, A.K.	-	An Introduction to Indian Historiography
Webster, John C.B.	-	An Introduction to History
White, Hayden	-	Metahistory
Widgery, A.	-	Interpretation of History
Pandey, L. P.	-	Bhartiyaitihas Darshana Itihas aur Itihasakarra
Singh, G. P.	-	Ancient Indian Historiography



M.A. Semester-III

Course Code: 603 (Core)

Main Currents of World History

(From 1789 A.D. to 1900 A.D.)

- UNIT - I: Age of Revolution and Progress
 a) French Revolution (1789-1795 AD): Aims and Nature, Causes and Consequences
 b) The Industrial Revolution - Causes and Consequential changes - Socialism
- UNIT - II: Napoleonic Era
 a) Rise of Napoleon, Achievement and Downfall
 b) Vienna Congress - Aims, Nature and Consequence
- UNIT - III: Rise of Nationalism
 a) Unification of Germany
 b) Unification of Italy
- UNIT - IV: Eastern Question and The Turks
 a) Crimean War (1853-56 AD), Russo - Turkish War (1877 - 1878 AD) and Berlin Congress
 b) Balkan Wars
 c) Making of Modern Turkey - Mustafa Kemal Atatürk
- UNIT - V: Far East: 19th Century
 a) Meiji Restoration in Japan, Japanese Imperialism
 b) China - Opium War, Boxer Rebellion

Human Value

Professional Ethics

Professional Ethics
Human Value

Human Values

Professional Ethics
Human Value

Professional Ethics

Books Recommended:

Albjerg and Albjerg	-	Europe from 1914 to the Present Day
Benns, F.F.	-	Europe 1870-1914
	-	Europe since 1914 in the World Setting
Bury, J.T.P	-	The New Cambridge Modern History (Relevant Volumes)
Gershoy, L.	-	The French revolution and Napoleon
Roberts, F.M.	-	The Origins of Second World War
Rudy, George	-	Revolutionary Europe
Seman, L.B.	-	From Vienna to Versailles
Taylor, A.J.P.	-	The Struggle for the Mastery in Europe
Thomson, David	-	Europe since Napoleon
Vinacke, H.M.	-	History of the Far East in Modern Time
Schapiro, J. Salwyn	-	Modern and Contemporary European History, 1815-1952



M.A. Semester-III

Course Code: 652 (Elective)

Group-B: Ancient Indian Architecture - I

- UNIT-I: Introduction:
a) Brief Overview of Legislations on Conservation of Art Heritage
b) Patronage in Ancient Indian Art
- UNIT-II: Literary Sources:
a) Non-technical Text - Brihat Samhita
b) Technical Text - Manasara, Samaranganasutradhara, Aparajitaprichha
- UNIT-III: Early Phase-I:
a) Harappan town planning: Mohenjodaro, Harappa, Dholavira, Lothal
b) Residential and Public Utility buildings/Centers
- UNIT-IV: Early Phase-II:
a) Mauryan Town planning with special reference to Arthashastra
b) Asokan Pillars- Form, technique and symbology
c) Rock-Cut Architecture
- UNIT-V: Early Phase-III:
a) Stupa Architecture- Bharhut, Sanchi
b) Stupa Architecture- Amaravati and Nagurjunkonda
c) Rock-cut Architecture- Bhaja, Karle, Udaygiri, Khandagiri

Human Value
Professional Ethics
Gender

Human Value
Professional
Environment of
Ethics

Human Value
Professional Ethics

Gender
Human Values
Environment of
Professional Ethics

Books Recommended:

Sarkar, H.	- Museums and Protection of Monuments and Antiquities in India, 1981
Agrawal, V.S.	- Evolution of Hindu Temples and Other Essays;
	- Indian Art/Bharatiya Kala;
	- Gupta Art.
Anand, Mulk Raj	- The Hindu View of Art
Bhattacharya, Tarapada	- Canons of Indian Art
Boner, Alice and Sharma, S.R.	- New Light on the Sun Temple of Konarka
Bose, Nirmal Kumar	- Canons of Orissan Architecture
Coomaraswamy, A.K.	- Symbolism of Indian Architecture
	- History of Indian and Indonesian Art (Symbolism and General History)
Dehejia, Vidya	- Early Stone Temples of Orissa
Dhaky, Meister, & Krishna Deva (Ed.)	- Encyclopaedia of Temple Architecture- Vol.-I (North India 5 pts.)
Gangoli, O.C.	- The Art of the Rashtrakutas
Krishna Deva	- Temples of North India
	- Khajuraho-2 Vols.
Michell, George	- The Hindu Temple: An Introduction to its Meaning and Forms.
	- Splendours of the Vijayanagar Empire - Hampi(Marg. Pub.)
Mitra, Debala	- Buddhist Monuments
Pandey, J.N.	- Bharatiya Kala
Panigrahi, K.C.	- Archaeological Remains at Bhubaneswara.
Pramod Chandra	- Studies in Temple Architecture
Ray, Niharrajan	- Maurya - Sunga Art.
Roy, G.N.	- Bharatiya Kala, Allahabad
Rowland, Benjamin	- The Art and Architecture of India
Shula, D.N.	- Vastushastra, Vol.-I Hindu Science of Architecture.
SoundaraRajan, K.V.	- Indian Temple Styles: The personality of Hindu Architecture.
Srinivasan, K.R.	- Temples of South India
Suson, L. Huntington	- The Art of Ancient India



M.A. Semester-IV
Course Code: 604 (Core)
Political History of Ancient India
(From A.D. 550 to 1200 A.D.)

- UNIT-I: Sources:
a) Literary and Archaeological Sources
i) Indigenous
ii) Foreign accounts
iii) Inscriptions
iv) Numismatic
v) Architecture and others
- UNIT-II: History of Post-Gupta Period
a) Later Guptas
b) Maukharis
c) Vakatakas
d) Pallavas
e) Aulikaras and Maitrakas
f) Vakataka-Pallava Relations
- UNIT-III: History of Pushyabhuti Dynasty and Chalukyas of Badami
a) Harsha's Campaign and Chronology
b) Extent of the Empire
i) Relation with contemporary kingdoms with special reference to the Chalukyas of Badami
ii) Estimate
Chalukyas of Badami:
a) Origin and Early History of Chalukyas
b) Pulkesin II and his Achievements
c) Chalukya-Pallava Relations
d) Arab Invasion
- UNIT-IV: Political History:
a) Gurjar-Partihar- with special reference to Achievements of Mihirabhoj
b) Palas- with special reference to Achievements of Dharmपाल
c) Rashtrakutas- with special reference to Achievements of Dhruva Dharavarsa or Govind III
Tripartite Struggle:
a) Chandellas
b) Chahamanas - with special reference to Achievements of Prithviraja- III
Foreign Invasions:
a) Ghazanavi's Invasion
b) Turk Invasion (with special reference to Mohammad Ghori)
- UNIT-V: Epigraphic notes on the following Inscriptions:
a) Banskhera Inscription of Harsha
b) Haraha Inscription of Ishanavarman
c) Aihole Inscription of Pulakeshina-II
d) Aphasada Inscription of Adityasena
e) Mandasore Inscription of Yashodharman

Human Values
Professional Ethics

Gender
Human Values
Professional Ethics
Gender

Human Values

Human Values
Professional Ethics
Human Values

Books Recommended:

Basak. R.G.	-	History of North Eastern India
Devahuti, D	-	Harshavardhana
Mukerjee, R.V.	-	Harsha
Sinha, B.P.	-	Decline of the Kingdom of Magadha



- UNIT-I: Oriental Tradition of Historiography:
 a) Introduction and Approaches
 b) Historical Explanation
 c) Historical Positivism
- UNIT-II: Introduction and approaches to the modern Historiography of 19th Century:
 a) Ranke
 b) Hegel
 c) Karl Marks
- UNIT-III: Modern Historiography of 20th Century:
 a) Spengler
 b) Toynbee
 c) R. G. Collingwood
- UNIT-IV: Historical Text:
 a) Harsh Charit
 b) VikramankdevaCharit
 c) Rajtarangini
- UNIT-V: An introduction of Historians:
 a) D. D. Kosambi
 b) K. P. Jaiswal
 c) B. N. S. Yadav

Human Value
Professional Ethics

Human Value
Professional Ethics

Gender
Professional Ethics
Environmental Ethics

Professional Ethics

Books Recommended:

Carr, E.H.	-	What is History, London
Collingwood, R.G.	-	The Idea of History, Oxford
Gardiner, P. (Ed.)	-	Theories of History
Ghoshal, U.N.	-	Studies in Indian History and Culture
Gooch, G.P.	-	History and Historians in the Nineteenth Century
Jenkins, Keith	-	Rethinking History
Kolle V. and Kovalson, M.	-	Historical Materialism
Marwick, Arthur	-	The New Nature of History
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Sreedharan, E.	-	A Textbook of Historiography: 500 B.C. to A.D. 2000 (Hindi Translation Available)
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Wardar, A.K.	-	An Introduction to Indian Historiography
Webster, John C.B.	-	An Introduction to History
White, Hayden	-	Metahistory
Widger, A.	-	Interpretation of History
Pandey, L. P.	-	BhartiyaltihasDarshana
Singh, G. P.	-	ItihasaurItihasakarra
	-	Ancient Indian Historiography



M.A. Semester-IV

Course Code: 606 (Core)

Main Currents of World History

(From 1900 A.D. to 1945 A.D.)

- UNIT -I: World War - I and After
 a) Causes and Consequences of World War - I
 b) The Paris Conference - Versailles Settlement
 c) The League of Nations

Human Value

- UNIT-II: Communism and Revolution
 a) Rise of Communism - Karl Marx
 b) Russian Revolution (1917) - Causes and Consequences

Professional Ethics

- UNIT -III: Far East: 20th Century
 a) Japanese Militarism
 b) Chinese Revolution of 1911

Professional Ethics

- UNIT-IV: Rise of Dictatorship
 a) Nazism in Germany - Rise of Hitler
 b) Rise of Fascism in Italy

- UNIT-V: World War - II and After
 a) Causes and Consequences of World War -II
 b) Disintegration of League of Nations
 c) United Nations Organization (UNO)

Human Value

Books Recommended:

Albjerg and Albjerg	-	Europe from 1914 to the Present Day
Benns, F.F.	-	Europe 1870-1914
Bury, J.T.P	-	Europe since 1914 in the World Setting
Gershoy, L.	-	The New Cambridge Modern History (Relevant Volumes)
Roberts, F.M.	-	The French revolution and Napoleon
Rudy, George	-	The Origins of Second World War
Seman, L.B.	-	Revolutionary Europe
Taylor, A.J.P.	-	From Vienna to Versailles
Thomson, David	-	The Struggle for the Mastery in Europe
Vinacke, H.M.	-	Europe since Napoleon
Schapiro, J. Salwyn	-	History of the Far East in Modern Time
	-	Modern and Contemporary European History, 1815 - 1952



- UNIT-I: Temple Architecture:
a) Origin and growth of Temple Architecture
b) Principles of Vastu Vidya: Cosmology
c) Gupta Temples- Distinctive Features; Form and Technique
- UNIT-II: Temple Styles:
a) Nagara
b) Dravida
c) Vesara
- UNIT-III: Early Medieval Architecture: North India
a) Temples of Orissa
b) Temples of Khajuraho
c) Origin of Bhumija Style
- UNIT-IV: Early Medieval Architecture: South India
a) Pallava Temples: Cave & Monoliths
b) Pallava Temples: Structural
c) Early Chalukyan Temples
- UNIT-V: Early Medieval Architecture: South India
a) Chola Temples
b) Later Chalukyan - Hoyasala Temples
c) Rashtrakuta Monoliths/Cave Temples - Ellora

Whole course
contains
Human Values
Professional Ethics
Environmental
Ethics
Et cetera

Books Recommended:

Agrawal, V.S.	- Evolution of Hindu Temples and Other Essays;
	- Indian Art/Bharatiya Kala;
	- Gupta Art.
Anand, Mulk Raj	- The Hindu View of Art
Bhattacharya, Tarapada	- Canons of Indian Art
Boner, Alice and Sharma, S.R.	- New Light on the Sun Temple of Konarka
Bose, Nirmal Kumar	- Canons of Orissan Architecture
Coomaraswamy, A.K.	- Symbolism of Indian Architecture
	- History of Indian and Indonesian Art (Symbolism and General History)
Dehejia, Vidya	- Early Stone Temples of Orissa
Dnaky, Meister, & Krishna Deva (ed)	- Encyclopaedia of Temple Architecture Vol. I (North India 3 pts)
Gangoli, O.C.	- The Art of Rashtrakutas
Krishna Deva	- Temples of North India
	- Khajuraho - 2 Vols.
Michell, George	- The Hindu Temple: An Introduction to its Meaning and Forms
	- Splendours of the Vijayanagar Empire- Hampi (Marg. Pub.)
Mitra, Debala	- Buddhist Monuments
Pandey, J.N.	- Bharatiya Kala
Panigrahi, K.C.	- Archaeological Remains at Bhubaneswara
Pramod Chandra	- Studies in Temple Architecture
Ray, Niharranjan	- Maurya-Sunga Art
Rowland, Benjamin	- The Art and Architecture of India
Shukla, D.N.	- Vastushastra, Vol. 1 - Hindu Science of Architecture
SoundaraRajan, K.V.	- Indian Temple Styles: The Personality of Hindu Architecture.
Srinivasan, K.R.	- Temples of South India
Suson, L. Huntington	- The Art of Ancient India



M.A. Semester-IV

Course Code: 664 (Elective)

Group-B: Ancient Indian Art and Aesthetics-II

- UNIT-I: Historiography, Approaches and Sources
- UNIT-II: Dynastic Art:
a) Chandella
b) Rashtrakuta
c) Orissa
d) Pallava
e) Chola
- UNIT-III: Hindu Iconography:
a) Vishnu
b) Shiva
c) Sakta
d) Surya
- UNIT-IV: Terracotta Traditions:
a) Indus
b) Mauryan and Sunga
c) Kushana and Gupta
d) Early Medieval Regional Traditions
- UNIT-V: Painting Traditions:
a) Forms and Techniques
b) Prehistoric Paintings
c) Classical Painting Tradition, Ajanta and Bagh

Whole Course contains
Human Values
Professional Ethics
Environmental Ethics
Gender

Books Recommended:

Agrawal, V.S.	-	Indian Art/Bharatiya Kala
Ananad, Mulkraj	-	Hindu View of Art
Bachoffer, L.	-	Early Indian Sculpture, 2 vols.
Banerjee, J.N.	-	Development of Hindu iconography
Coomarswamy, A.K.	-	History of Indian and Indonesian Art
Gnoli, Raniero	-	The Aesthetic Experience According to Abhinavagupta
Harle, J.C.	-	The Art and Architecture of Indian subcontinent
Kramrisch, Stella	-	Indian Sculpture
Misra, Indumati	-	Pratima Vigyan
Mishra, R.N.	-	Murtikala ka Itihasa
Mitter, Partha	-	Indian Art
Pandey, K.C.	-	Comparative Aesthetics
	-	Vol. 1 : Indian Aesthetics
	-	Vol. 2 : Western Aesthetics
Rao, T.A.G.	-	Elements of Hindu iconography, 4 vols.
Shivramamurti, C.	-	South Indian Bronzes
Tomory, Edith	-	A History of Fine Arts in India and the West
Vatsyayan, K.	-	Natya Sastra

Syllabus

Botany

B.Sc. (Three year degree Course)



**DEPARTMENT OF BOTANY
UNIVERSITY OF ALLAHABAD**

B.Sc. Part -I

PAPER-I

FUNGI, LICHENS, BACTERIA & VIRUSES

UNIT -I

FUNGI: A general introduction to fungi including structure, reproduction Importance and classification. The life histories of following genera:

Lower Fungi: *Albugo, Phytophthora, Mucor*

Higher Fungi:

Ascomycetes: *Saccharomyces, Sphaerotheca, Peziza (Morchella for practical's only)*

Basidiomycetes: *Ustilago, Puccinia, Agaricus*

Fungi Imperfecti: *Cercospora, Aspergillus*

UNIT -II LICHENS BACTERIA AND PLANT VIRUSES

LICHENS: Occurrence general structure and reproduction with special reference to *Parmelia*. Economic Importance of Lichens in general;

BACTERIA: Structure reproduction and economic Importance;

VIRUSES: Nature, Structure transmission multiplication and economic importance

PAPER-II

ALGAE AND BRYOPHYTA

UNIT -I

ALGAE: A general Introduction to algae including their vegetative structure, reproduction ecology and economic importance; broad classification of algae; and study of reproduction and life cycle of the following genera:

Cyanophyceae: *Oscillatoria, Nostoc*

Chlorophyceae: *Chlamydomonas, Volvox Chlorella, Hydrodictyon, Oedogonium.*

Xanthophyceae: *Vaucheria*

Phaeophyceae: *Ectocarpus, Fucus, (Sargassum for Practical's Only)*

Rhodophyceae: *Batrachospermum, Polysiphonia*

UNIT II

Bryophyta: A general account of Bryophytes; the life histories of the following genera:

Hepaticopsida: *Riccia, Marchantia, Pellia, Porella*

Anthocerotopsida: *Anthoceros*

Bryopsida: *Sphagnum, Funaria*

PAPER -III

PTERIDOPHYTA AND GYMNOSPERMOPHYTA

UNIT -I

PTERIDOPHYTA: A general account of the pteridophytes with special reference to life histories of the following genera:

Psilophyta:	<i>Rhynia</i>
Lycophyta:	<i>Lycopodium, Selaginella</i>
Arthrophyta	<i>Equisetum</i>
Filicophyta	<i>Marsilea, Pteridium</i>

UNIT-II

GYMNOSPERMOPHYTA: Classification and general account of the gymnosperms with special reference to the life histories of the following genera:

Cycadales:	<i>Cycas</i>
Coniferales:	<i>Pinus</i>

Structure of Examination

THEORY:

Paper I:	Fungi, Lichens, Bacteria and Viruses	34 Marks
Paper II:	Algae and Bryophyta	33 Marks
Paper III:	Pteridophyta and Gymnospermophyta	33 Marks

PRACTICAL EXAMINATION: The practical examination will be based on the course work prescribed for Paper I, II and III. Preparation and study of suitable glycerine mounts and section of plant materials of cryptogams and gymnosperms to test their knowledge of these groups.

1. The dissection of plants and parts of plants prescribed, the preparation, staining, mounting and study of plants prescribed (permanent preparations are not required).
2. A practical study of plants prescribed in the syllabus. Notebooks containing a complete record of laboratory work must be produced at the practical examination. Marks will be allotted as follows:

Practical Examination	37 Marks
One test during the year	4 Marks
Viva-Voice	4 Marks
Class record	5 Marks
Total	50 Marks

B.Sc. Part –II

Paper I

Unit I

Taxonomy: History of plant taxonomy with special reference to India; brief account of Bentham & Hooker; Englar & Prantl and Hutchinson's system of classification; detailed account of the following families: Poaceae (Graminae); Liliaceae, Orchidaceae; Musaceae; Ranunculaceae; Brassicaceae (Cruciferae); Capparidaceae; Papaveraceae; Caryophyllaceae; Malvaceae; Leguminoceae; Rosaceae; Apiaceae (Umbelliferae); Myrtaceae; Amaranthaceae; Casuarinaceae; Euphorbiaceae; Asclepiadaceae; Cucurbitaceae; Acanthaceae; Solanaceae; Convolvulaceae; Lamiaceae (Labiatae); Asteraceae (Compositae); Rubiaceae.

Unit II

Morphology & Anatomy: Broad outline of morphology and anatomy of vegetative and reproductive organs of angiosperms; cell wall structure; tissue and tissue systems; morphology and anatomy of root and shoot; Root-stem transition regions; An account of normal primary structure and secondary growth in herbaceous and woody plants; anomalous secondary growth as exemplified by stems of *Boerhaavia*, *Chenopodium*, *Pyrostegia (Bignonia)* and *Dracena*; anatomy of leaf; Leaf abscission; general morphology of flower and floral parts.

Unit III

A brief history of anther and ovule; Male gametophytes, Polygonum type of embryo sac; fertilization, development of embryo sac as exemplified by *Capsella bursapastoris* and *Sagitaria* type; An elementary account of the development of endosperm ; apomixes and polyembryony

Paper II

Plant Physiology and Plant Ecology

Unit I

Plant Physiology: Cell constituents and their microchemical reactions; physiology of cell; Absorption of materials in general: ascent of sap; Transpiration; assimilation of Nitrogen; translocation of plant food materials; fermentation and respiration; elementary knowledge of growth including turgidity; movement in plants; Plant-water relations (water absorption, transpiration & translocation, salt uptake and translocation); Growth hormones; movement of hormones; dormancy and its regulation; vernalization and photoperiodism; phytochrome system; Enzymes: classification and mechanism of action; respiration & photorespiration; Photosynthesis; Nitrogen assimilation; and fixation of atmospheric nitrogen; synthesis of amino acids; Lipid carbohydrate metabolism

Unit II

An elementary knowledge of ecology; ecological factors: climatic, edhaphic, phytogeographic and biotic factors; plant succession; and plant communities: hydrophytes, mesophytes, xerophytes, mangroves , epiphytes and parasites; food chains; ecosystem; pollution; forest types in India

Paper III

Cytology and Genetics

Unit I

Cytology: General study of cell and its organelles; chromosomes; cell divisions

Genetics: Mendelism; linkage & crossing-over; gene concept; sex-determination in plants; cytoplasmic inheritance, mutation (Chromosomal & genic); chromosomal aberrations & polyploidy

Unit II

Molecular Biology: Structure of DNA, RNA and Proteins; Role of nucleic acids in protein synthesis; Genetic code; mechanism of protein synthesis;

Unit III

Evolution: Origin of life and organic evolution: evidences, mechanism and theories.

PRACTICAL EXAMINATION: The practical examination will be based on the course work prescribed for Paper I, II and III. Marks will be allotted as follows:

Practical Examination	35 Marks
One test during the year	5 Marks
Viva-Voice	5 Marks
Class record	5 Marks
Total	50 Marks

B.Sc. Part III

Paper I

Unit I

Biotechnology (Applied microbiology & Genetic engineering)

Microbiology and Applied microbiology: Definition and scope: An elementary knowledge of soil, water, sewage, milk, food, air, and industrial microbiology; importance and application of *Penicillium*, *Bacillus*, *Chlorella*, *Streptococcus*, *Lactobacillus*, *Leuconostoc*, *Saccharomyces*, *Aspergillus*, *Clostridium*, and *Claviceps*; symbiotic and non-symbiotic nitrogen-fixing bacteria; and blue-green algae; Mycorrhiza

Genetic Engineering: Concept & scope: gene transplant, role of restriction enzymes, endonucleases; plasmids in transferring gene; application of genetic engineering in medicine, agriculture, industry and environment

Unit II

Plant Pathology: Definition and scope: disease and disease-causing organisms; symptoms of plant diseases; dissemination of pathogens; introductory knowledge of epidemiology and forecasting of plant diseases; host-parasite interaction; effect of environment on plant diseases; principles of defence mechanisms and control

Paper II

Economic Botany, Applied Plant anatomy, Marine Biology, Limnology and Plant Breeding

Unit I

Economic Botany: knowledge of use of plants for human welfare;

- A. use of plants or plant products belonging to the groups: algae, fungi, bryophytes and gymnosperms
- B. use of plants or plant products belonging to Angiosperms with special reference to the following:
 - a) Food plants: cereals (wheat, rice maize); legumes (Pigeon pea, ground nut, gram); sugarcane and fruits
 - b) Food Adjuncts: Beverages (Tea and coffee); Spices (*Piper nigrum*, *Capsicum*, *Curcuma*, *Zinziber*, *Crocus sativus*, *coriander sativum*, *syzygium aromaticum*)
 - c) Masticatories and fumicatories (*Piper betel*, *Areca catechu*, *Acacia catechu*, *Nicotiana tabaccum*)
 - d) Drug-yielding plants: Drug narcotics (*Cinchona*, *Aconitum*, *Atropa*, *Artemissia*, *Rauwolfia*, *Cannabis sativa*, *Paper sominiferum*)
 - e) Timber: Teak, Sal, Shesham
 - f) Fibre: Cotton, Jute, Sun-hemp, Coir
 - g) Edible oil: Peanut oil, Coconut, Mustard
 - h) Rubber: *Havea*, *Ficus*
 - i) Tannins: *Acacia*
 - j) Gum: *Acacia*, *Sterculia*

- k) Weeds and weed control: An introduction and definition of weeds; methods of weed control, a basic knowledge of herbicides, their transformation and persistence in soil; some prominent weeds of crop plants and their control

Unit II

Applied Plant Anatomy and Plant Breeding

Applied plant anatomy: Economic aspect of applied plant anatomy in taxonomy, horticulture, food adulteration, medicinal plants; wood in present day archaeology, forensic application

Plant Breeding: An elementary knowledge of plant breeding, methods of breeding of self-pollinated crops, cross-pollinated crops, and asexually propagated crops, parasexuality, techniques of plant breeding: emasculation, pollination etc.

Unit III

Marine Biology and Limnology: An elementary knowledge of marine biology and limnology; a general study of morphological and reproductive features of micro and macrophytes growing in sea water with special reference to their adaptations; a preliminary knowledge of abiotic (Physicochemical properties of water) and biotic (planktons, periphytons, macrophytes, benthos and decomposes) factors influencing growth of fresh water and marine water flora

Paper III

PALAEOBOTANY, PALYNOLOGY, PLANT DIVERSIFICATION, MORPHOGENESIS AND TISSUE CULTURE

Unit I

PALAEOBOTANY: An elementary knowledge of Palaeobotany; geological era; process of fossilization; types of fossils; methods of fossil study; form genera and reconstruction of fossil plants

PALYNOLOGY: An introductory knowledge of palynology

Unit II

PLANT DIVERSIFICATION: Evolutionary trends; origin and evolution of different plant groups

Unit III

Morphogenesis and Tissue Culture: Phenomenon of morphogenesis;; an elementary knowledge of polarity, symmetry; cellular and tissue differentiation; protoplast fusion, methodology and application of tissue culture

PRACTICAL EXAMINATION: The practical examination will be based on the course work prescribed for Paper I, II and III. Marks will be allotted as follows:

Practical Examination	60 Marks
One test during the year	5 Marks
Viva-Voice	5 Marks
Class record	5 Marks
Total	75 Marks

Syllabus

M.Sc. Botany (Choice Based Credit System)
(To be implemented from the Academic Year 2018-19)



DEPARTMENT OF BOTANY
UNIVERSITY OF ALLAHABAD



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UNIVERSITY OF ALLAHABAD

M.Sc. Syllabus (Choice Based Credit System)
(To be implemented from the Academic Year 2018-19)

Semester – I

Course Code	Marks	Course Title	Credits
BOT510	100	Phycology and Limnology	3
BOT511	100	Mycology and Plant Pathology	3
BOT512	100	Bryology and Pteridology	3
BOT513	100	Gymnosperm and Palaeobotany	3
BOT540	100	Lab Work I (based on Course BOT510 and BOT511) (Excursion/field work/ Project)	4
BOT541	100	Lab Work II (based on Course BOT512 and BOT513) (Excursion/field work/Project)	4
Total credits			20

Semester – II

Course Code	Marks	Course Title	Credits
BOT514	100	Plant Morphology and Anatomy	3
BOT515	100	Reproductive Biology, Morphogenesis and Tissue culture	3
BOT516	100	Taxonomy of Angiosperm and Economic Botany	3
BOT517	100	Ecology and Phytogeography	3
BOT542	100	Lab Work III (based on Course BOT514 and BOT515) (Field work/ Project)	4
BOT543	100	Lab Work IV (based on Course BOT516 and BOT517) (Field work/ Project)	4
Total credits			20

Semester – III

Course Code	Marks	Course Title	Credits
BOT665	100	Plant Physiology	3
BOT666	100	Plant Biochemistry and Biochemical Techniques	3
BOT667	100	Cytogenetics, Plant Breeding and Biostatistics	3
BOT668	100	Microbiology	3
BOT684	100	Lab Work V (based on Course BOT665 and BOT666)	4
BOT685	100	Lab Work VI (based on Course BOT667 and BOT668)	4
Total credits			20

Semester – IV

Course Code	Marks	Course Title	Credits
BOT670	100	Plant Molecular Biology and Molecular Techniques	3
BOT671	100	Plant Biotechnology, Bioinformatics and IPR	3
BOT672-683	100	Elective Paper	3
BOT686	100	Dissertation/Thesis	3
BOT687	100	Lab Work VII (based on Course BOT605 and BOT606)	4
BOT688-699	100	Lab Work VIII (based on Course Elective Paper BOT672-683)	4
Total credits			20

Elective Papers:

Course Code	Marks	Elective	Credits
BOT672	100	Applied Phycology	3
BOT673	100	Plant Pathology and Plant Protection	3
BOT674	100	Biology of Bryophytes	3
BOT675	100	Taxonomy of Angiosperms	3
BOT676	100	Biology and diversity of Pteridophytes and Gymnosperms	3
BOT677	100	Advanced Plant Anatomy and Palynology	3
BOT678	100	Ecology and Environment	3
BOT679	100	Advanced Cytogenetics	3
BOT680	100	Advanced Plant Physiology	3
BOT681	100	Palaeobotany	3
BOT682	100	Applied Microbiology	3
BOT683	100	Advanced Molecular Biology and Genetic Engineering	3
BOT688	100	Lab Work VIII (based on Course BOT672)	4
BOT689	100	Lab Work VIII (based on Course BOT673)	4
BOT690	100	Lab Work VIII (based on Course BOT674)	4
BOT691	100	Lab Work VIII (based on Course BOT675)	4
BOT692	100	Lab Work VIII (based on Course BOT676)	4
BOT693	100	Lab Work VIII (based on Course BOT677)	4
BOT694	100	Lab Work VIII (based on Course BOT678)	4
BOT695	100	Lab Work VIII (based on Course BOT679)	4
BOT696	100	Lab Work VIII (based on Course BOT680)	4
BOT697	100	Lab Work VIII (based on Course BOT681)	4
BOT698	100	Lab Work VIII (based on Course BOT682)	4
BOT699	100	Lab Work VIII (based on Course BOT683)	4

**The candidates are required to choose only one elective paper*

Examination Scheme for theory and related practical work is configured as follows:

	Internal Assessment				External Exam
Weightage (%)	40				60
Components	Best of Class Test 1 & 2	Mid Semester exam	Assignment	PowerPoint Presentation	
Weightage distribution	10	20	5	5	

INSTRUCTIONS FOR THE PAPER- SETTER

The question paper will consist of five units I, II, III, IV and V. Each unit will have two questions, out of that one question must be answered, and each question will carry 12 marks. Total five questions must be answered.

INSTRUCTION FOR THE CANDIDATES

Candidates are required to attempt FIVE questions; each question will carry 12 marks.

SEMESTER – I

BOT510: Phycology and Limnology

Credits: 3

Unit I

Introduction to Limnology, Properties of water, Lake ontogeny, morphometry, Physical factors: Light Temperature, Heat, and Stratification. Chemical factors: DIC, Oxygen in lakes, profiles, seasonal effects, primary production, effect of DOC and BOD

Unit II

Redox reactions in the water column and sediment, Size spectrum of planktonic organisms, Size efficiency hypothesis, Food webs: benthic-pelagic coupling, paleolimnology, Human impact on lake ecosystem

Unit III

Introduction to Phycology, Principles and systems of classification of algae, Comparative account of algal pigments, food reserves, cell wall, flagellation, chloroplasts and eye-spots, their phylogenetic and taxonomic importance

Unit IV

Cell structure and thallus organization, heterocyst and akinete development and their role; chromatic adaptations and reproduction in Cyanophyta, distribution and ecology of cyanobacteria

Unit V

Range of thalli and methods of reproduction in Chlorophyta, evolutionary tendencies in Chlorophyta. A brief account of Bacillariophyta, Pyrrophyta, Haplophyta, Crysophyta, Xanthophyta, Euglenophyta and Prochlorophyta, and other related and recent new groups. Thallus organization and reproduction in Phaeophyta and Rhodophyta

Suggested readings:

1. Dodson, S. (2005). Introduction to Limnology. New York. McGraw-Hill.
2. Bronmark, C. and L.A. Hansson (2005). The biology of lakes and ponds. 2nd Edition. New York, Oxford University Press.
3. Moss, B. (1998). Ecology of fresh waters: man and medium, past to future. Oxford, Blackwell Science.
4. Horne, A. J. and C. R. Goldman (1994). Limnology. Toronto, McGraw-Hill.
5. Wetzel, R. G. (2001). Limnology: lake and river ecosystems. San Diego, Academic Press.
6. Carpenter, S. R. and J. F. Kitchell (1993). The trophic cascade in lakes. Cambridge, Cambridge University Press.
7. Kerr, S. R. and L. M. Dickie (2001). The biomass spectrum: a predator-prey theory of aquatic production. New York, Columbia University Press.
8. Smol, J. P. (2002). Pollution of lakes and rivers: a paleoenvironmental perspective. London, Arnold.
9. North American Lake Management Society and the Terrene Institute. (2001). Managing lakes and reservoirs. Madison, WI
10. Lehmkuhl, D. M. 1979. How to know the aquatic insects. Dubuque, Iowa, W.C. Brown Co.
11. Dillard, G. E. (1999). Common freshwater algae of the United States. Berlin, Gebr. Borntraeger Lee, Robert Edward, 2008, Phycology, Fourth edition, Cambridge University Press
12. Graham Robin South and Alan Whittick, 1998, Introduction to Phycology, Blackwell Scientific Publication
13. Bold, H.C. and Wynne, M.J., 1985, Introduction to the Algae, 2nd Edition, Prentice-Hall Inc.
14. Dixon, R. , Biology of Rhodophyta, Koelt Science Publisher, West Germany
15. Fritsch, F.E., Structure and Reproduction of Algae, Vol. I & II, Cambridge University Press, Cambridge

BOT511: Mycology and Plant Pathology

Credits: 3

Unit I

Introduction to fungi and their significance to humans, general characteristics of fungi, Fungal Cell, fungal cell walls and fungal organelles, systematics, molecular methods of fungal taxonomy, reproduction and spores in fungi, heterothallism, parasexual cycle and sex hormones in fungi. Biology, general characteristics and importance of Plasmodiophora, dietyosteliomycota, acrasiomycota and myxomycota. Biology, general characteristics, classification and brief introduction of –Mastigomycotina-Chytridiomycetes, Hypochytridiomycetes and Oomycetes Zygomycotina - Mucorales, Endogonales, Glomales, Entomophthorales and Zoopagales with special reference to evolutionary tendencies in thallus, asexual and sexual reproduction

Unit II

Ascomycotina- General characteristics and brief introduction of Taphrinales, Schizosaccharomycetales, Saccharomycetales, Eurotiales, Hypocerales, Melanosporales, Phyllachorales, Ophiostomatales, Dioporthales, Xylariales,

Sordariales, Meliolales, Rhytismales, Helotiales, Pezizales, Dothidiales, Pleosporales and Erysiphales with special reference to evolutionary tendencies in asexual and sexual reproduction. Basidiomycotina- General characteristics of Agaricales, Lycoperdales, Sclerodermatales, Phallales, Nidulariales, Aphyllophorales, Uredinales, Ustilaginales, Auriculariales and Tremellales, Deuteromycotina- Hyphomycetes, Coelomycetes.

Unit III

Introduction to lichens, the symbiotic relationship and classification of lichens, methodology for lichens taxonomy, morphology and anatomy of thallus, reproduction, physiology, ecological aspects and chemistry, conservation, culture, bioprospection and economic importance of lichens.

Unit IV

General introduction to Plant Pathology, History of Plant Pathology, Classification of Plant Diseases, Kinds and amount of losses, chemical weapons of pathogens – Enzymes and toxins; Role of growth hormones in plant diseases, Preexisting structural and chemical defense, induced structural and chemical defense, hypersensitive reaction, role of phytoalexins and other phenolic compound., how the pathogen affects plant physiological functions. Parasitism and disease development, symptoms, effect of environmental factors on the plant disease development, plant disease epidemiology

Unit V

Some important diseases caused by fungi, bacteria, viruses and mycoplasma. Control of plant diseases, quarantines and inspection, physical, chemical, cultural and biological methods of disease control, integrated pest management.

Suggested readings:

1. Webster, John, 1980, Introduction to Fungi, Cambridge University Press
2. Alexopoulos, C.J., Mims, C.W. and Blackwell, M. 1996, Introductory Mycology, Wiley
3. Carlile, M.J., Watkinson S.C. and Booday, G.W. , 2001, The Fungi, Academic Press
4. Deacon, J.W., Blackwell, M, 1997, Introduction to Modern Mycology, Oxford
5. Webster, John and Roland, W.S., 2007, Introduction to Fungi, Cambridge University Press.
6. Hale, M.E. (1983), The biology of lichens (3rd ed.). Edward Arnold.
7. Hawksworth, DL & Hill, DJ 1984: The Lichen-Forming Fungi. - Blackie, Glasgow and London. 158 pp
8. Galun, M. (ed.) (1988) CRC Handbook of Lichenology. Volume III. - CRC Press, Inc., Boca Raton
9. Brown D. H., Hawksworth D. L. & Bailey R. H. 1976, Lichenology: Progress & problems, Academic Press. London.
10. Willey, J.M., Sherwood, L., Woolverton, C.J., 2010. Prescott's Microbiology. 8th edition, McGraw-Hill.
11. Agrios, G. N., 1988. Plant Pathology, Academic Press.
12. John A Lucas, 1998. Plant Pathology and Plant Pathogens, Wiley-Blackwell, CRC Press.
13. Dickinson, C. M., 2003. Molecular Plant Pathology, Bios Scientific Publisher
14. Bridge, P.D and Clarkson, J.M., 1998. Molecular Variability of Fungal Pathogens, CAB, International
15. Singh, R. S., 2008. Principles of Plant Pathology, Oxford and IBH Publishing Co. Pvt Ltd.
16. Dhingra, O.D. and James, B. Sinclair, 1995. Basic Plant Pathology Methods, CRC Press
17. Pelczar, JM, Chan, ECS and Krieg, MR. 1993. Microbiology. Tata McGraw Hill.

BOT 512: Bryology and Pteridology

Credits: 3

Unit I

General introduction including broad outline of classification and evolutionary trends. Distribution of the group in India, general features and adaptation to land habit. Origin and evolution of gamatophyte and sporophyte generation. Endemism and endemic liverwort genera of India. Bryophyte ecology, Moss protonema, protonemal differentiation and bud induction. Regeneration in bryophytes. Economic uses, chemistry of bryophytes, fossil history. Hepaticopsida / Marchantiophyta: distribution: Global and Indian. General characteristics, morphology, anatomy and life history of Marchantiales: *Plagiochasma*, *Asterella*, *Cryptomitrium*, *Targionia*, *Cyathodium*; Monocleales: *Monoclea* Sphaerocarpaceles: *Sphaerocarpus*, *Riella*; Calobryales: *Calobryum*, *Haplomitrium*; Metzgeriales: *Riccardia*, *Metzgeria*, *Pallavicinia*; Jungermanniales: *Radula*, *Herberta*, *Porella*, *Frullania*, etc.; Treubiales: *Apotreubia*

Unit II

Anthocerotophyta: distribution: Global and Indian, general features, Morphology, anatomy and life history of Anthocerotales: *Anthoceros*, *Notothylas* etc. Bryopsida/Musci: distribution: Global and Indian, general features, morphology and anatomy, life history of Sphagnales: *Sphagnum*, Andreaeales: *Andreaea*, Andreaeobryales: *Takakia*, Polytrichales: *Polytrichum*, *Pogonatum*; Tetrarhiales: *Tetrarhis* (*Georgia*), Buxbaumiales: *Buxbaumia*, Bryales: *Bryum*, *Rhodobryum*, *Funaria*, etc.

Unit III

General Introduction of pteridophytes, their peculiar features and similarities and dissimilarities with bryophytes and gymnosperms, pteridophytes classification based on molecular data by Smith et al. 2006. World distribution of pteridophytes with special reference to India, Endangered pteridophytes their conservation.

Unit IV

Origin and Evolution of pteridophytes, Gametophytes of pteridophytes, ecology of pteridophytes. Stomatal structures in pteridophytes, Spores of pteridophytes. Apogamy, Apospory and parthenogenesis. Sex organs and embryogeny in Pteridophytes. Ecology of pteridophytes, Economic importance of the pteridophytes, Cytogenetics of pteridophytes.

Unit V

Comparative morphology, anatomy, reproductive biology and evolutionary studies of the following groups: Early land plant and their evolutionary significance, Psilopsida, Lycopsida, Sphenopsida, Filicopsida. Coenopteriales, Ophioglossales, Marattiales, Osmundales and filicales;; Monographic study of *Isoetes*, *Psilotum*, *Ophioglossum*, *Osmunda*, *Lygodium*, *Cyathea*, *Gleichenia*, *Adiantum*, *Pteris*, *Christella* and aquatic ferns.

Suggested readings:

1. Gangulee, H.C. and Kar, A.K., 2011, College Botany Vol. II (Algae+Fungi+Bryophyta+Pteridophyta), New Central Book Agency, Kolkata
2. Singh, Pande, Jain, 2010, A Text Book of Botany (Algae+Fungi+Bryophyta+Pteridophyta), Pub. Rastogi Publication, Meerut
3. Parihar N. S. 1965, An Introduction to Embryophyta- Bryophyta. Central Book Depot. Allahabad.
4. Kashyap S. R. 1972, Liverworts of the Western Himalayas & the Punjab Plains. Part 1 & 2.
5. Richardson D. H. S., The Biology of Mosses.
6. Janice. M. Glime, 2006, Bryophyte Ecology.
7. Goffinet B. & Shaw. A. J. 2008, Bryophyte Biology.
8. Rashid, A, 2011, An Introduction to Pteridophyta, 2nd edition, (Reprint), Pub. Vikas Publishing House Pvt. Ltd., Noida.
9. Gifford, Ernest, M., Foster, Adriance.S., 1989, Morphology and Evolution of vascular plant. W. H. Freeman; Third Edition.
10. Ogura, Yuzuru., 1972, Comparative Anatomy of Vegetative Organs of The Pteridophytes. Gebr. Borntraeger; 2nd edition.
11. Rashid, A.1999, An Introduction to Pteridophyta: Diversity,Development,Differentiation. Vikas Publishing House Pvt Ltd.
12. Parihar, Narayan Singh., 1977, The Biology and Morphology of The Pteridophyte. Central Book Depot.

BOT 513: Gymnosperms and Palaeobotany

Credits: 3

Unit I

General introduction of gymnosperms with special reference to its salient features, similarities and dissimilarities with other groups like pteridophytes and angiosperms. Classifications of gymnosperms. Origin and Evolution of gymnosperms with special reference to Progymnosperms, Devonian ovules and origin of seed.

Unit II

Comparative morphology, anatomy, reproductive biology and phylogenetic studies of the following groups: Pteridospermopsida-Lyginopteriales, Medullosales, Callistophytales, Glossopteriales, Peltaspermales, Corystospermales and Caytoniales. Cycadopsida, Pentoxyllopsida, Bennettioopsida, Ginkgoopsida Coniferopsida and Gnetales.

Unit III

Global distribution of gymnosperms with special reference to Indian plants. Endangered gymnosperms, their conservation and present status. Cytogenetics of Gymnosperms; Economic importance and biotechnology of gymnosperms.

Unit IV

Basic geological information – structure of Earth, Types of rocks, stratigraphy, basic concepts of continental drift and plate tectonics. Dating the past, Geological time scale. Fossilization process, Types of fossils, including chemical fossils and fossil techniques to study fossils, reconstruction and nomenclature of fossil, concepts of Parataxa and Eutaxa, objectives of palaeobotany. Prebiotic Environment, chemical evolution and origin of life, Pre-Cambrian life. Indian Pre-Cambrian stratigraphy and life forms.

Unit V

Applied Palaeobotany Life as fuel maker, sources of natural fossil fuels, Peat, coal and its varieties, constitution of coal, Coal Palynology, coal maceral, Petroleum – its origin, Palynology in oil exploration. Fundamentals of Paleofloristics, Palaeogeography and Palaeoclimatology. Application of Palaeopalynology. Plant and animal interactions correlation Archaeobotany with special reference to phytoliths and palynological studies.

Suggested readings:

1. Eames, A.J. (1936) Morphology of Vascular plant-lower group. Tata Mc Graw Hill, New Delhi.
2. Chamberlain, Charles Joseph, b.(1863), Gymnosperm; Structure and Evolution. Chicago, Ill., The University of Chicago Press
3. Chhaya Biswas and B.M.Johri. The Gymnosperm. Springer; 1997, edition (16 April 2014)
4. Bhatnagar, S.P. Moitra, Alok. (1996). Gymnosperms. New Age International.
5. Pant DD. (2002), An Introduction to Gymnosperms, Cycas, and Cycadales, Birbal Sahni Institute of Palaeobotany.
6. Steward W.N., Palaeobotany and evolution of plant. Cambridge University Press, New York.405 p.(1)
7. Stewart, W.N., and G.W.Rothwell. (1993) Palaeobotany and the evolution of plant. 2nd ed. Cambridge University Press, New York.521 p.(1)
8. Andrews, H.N., jr. 1974 Palaeobotany (1947-1972) Annals of the Missouri Botanical Garden 61:179-202.(8)

9. Thomas N. Taylor, Edith L. Taylor, Michael Krings (2009) *Palaeobotany: The biology and Evolution of Fossil Plants* Amsterdam ; Boston, Mass. : Academic Press, c2009
10. Wilson N Stewart and Gar W. Rothwell - 1993. *Palaeobotany and the evolution of plants*. Cambridge university press.
11. Edith L. Taylor, Thomas N. Taylor, Michael Krings – 2009. *Palaeobotany: The Biology and Evolution of Fossil Plants*. Academic Press.

BOT540: Lab Work I (based on Course BOT510 and BOT511)

Credits: 4

BOT541: Lab Work II (based on Course BOT512 and BOT513)

Credits: 4

SEMESTER – II

BOT514: Plant Morphology and Anatomy

Credit: 3

Unit I

Introduction of morphology and anatomy including brief historical account; External and internal organization of higher plants; Morphology of root and stem and their modifications, Ergastic substances; Microscopic and sub-microscopic structure and organization of cell wall

Unit II

Meristems: Organization of root apical meristem (RAM) and shoot apical meristem (SAM) differentiation; Quiescent center, Xylem and phloem: Ontogeny and structure of components and phylogeny, transfer cells.

Unit III

Secretary and excretory structures; Primary structure of root and stem, Origin of lateral roots, root-stem transition, nodal anatomy and its evolutionary significance; Leaf –structure and function with special reference to epidermis. Systematic significance of trichomes and stomata;

Unit IV

Vascular cambium and its derivatives, Primary anomalies in stem and anomalous secondary growth, Floral morphology and anatomy, fruits and seeds

Unit V

Periderm, Wood structure, Sapwood and Heartwood, Growth rings

Suggested readings:

1. Carlquist, S. (1961), *Comparative Plant Anatomy*, Holt, Rinehart and Winston, New York Press
2. Cutter, Elizabeth (1969), *Plant Anatomy part –I Cells and Tissues* IInd edition, Edward Arnold, London
3. Cutter, Elizabeth (1971), *Plant Anatomy Part- II Organs*, Edward Arnold London
4. Dickison William C. (2000), *Integrative Plant Anatomy*. Academic Press
5. Eames, A. J. & Mac Daniels Laurence H. (1951), *An Introduction To Plant Anatomy*, Mc Graw Hill.
6. Eames A.J (1961), *Morphology of Angiosperms*, Mc Graw-Hill, New York.
7. Esau, Katherine (1965), *Plant Anatomy*, John Wiley and Sons. Inc, New York.
8. Esau, Katherine, *Anatomy of seed Plants* (1960), Wiley, New York.
9. Evert, Ray.F. (1960), *Esau's Plant Anatomy*. John Wiley & Sons.
10. Fahn ,A. (1982), *Plant Anatomy Vol I and Vol II* Pergamon Press. Oxford New York
11. Mauseth, James D. (1988) *Plant Anatomy*. Benjamin/Cummings.

BOT515: Reproductive biology, Morphogenesis and Tissue culture

Credit: 3

Unit I

Introduction to life history of angiosperms, brief history of plant embryology; Anther: Structure and development wall layers and their role; Microsporogenesis; Cytoplasmic reorganization during microsporogenesis, Pollen wall morphogenesis and anther dehiscence; Pollen morphogenesis, Development of male gametophyte, ultrastructure, abnormal male gametophyte, Pollen germination

Unit II

Ovule: Ontogeny, structure, integuments and nucellus specialized structures, megasporogenesis; Development of embryo sac, subcellular details of constituent cells and their function, major types.

Unit III

Pollen-pistil interaction: Role of pollen wall proteins and stigma surface proteins, pollen tube growth in pistil, fertilization and apomixes; Endosperm: Major types, ultrastructure and histochemistry; Embryo: major types, polyembryony; Embryology in relation to Taxonomy

Unit IV

Morphogenetic phenomenon: Symmetry and polarity, concepts of cell differentiation and totipotency; Plant cell and tissue culture: General introduction, history and scope; Tissue culture techniques and culture media; Experimental embryology, anther, ovary and endosperm culture; somatic embryogenesis and androgenesis

Unit V

Somatic hybridization: Protoplast isolation, culture and regeneration, Somatic hybridization and hybrid selection; Possibilities, achievements and limitations of protoplast research; Applications of plant tissues culture: clonal propagation, artificial seed, production of hybrids and soma clones, production of secondary metabolites/ natural products; Cryopreservation and germplasm storage

Suggested readings:

1. Bhojwani, S.S. and Bhatnagar, S.P.(1985), Embryology of Angiosperms, Vikash Publishing House, New Delhi
2. Johri, B.M (1984) Embryology of Angiosperms. Springer-Verlog Berlin Heidelberg.
3. Maheshwari, P. (1950) An Introduction to the Embryology of Angiosperms. Tata McGraw Hill.
4. Pandey, B.P., Angiosperms-Taxonomy, Emrbyology and Anatomy, S. Chand and Co., New Delhi
5. Bhojwani, S.S. and Bhatnagar, S.P., Embryology of Angiosperms, Vikash Publishing House, New Delhi
6. Butenko RG (2000) Plant Cell Culture, University Press of Pacific.
7. Davies PJ (2004) Plant Hormones, Kluwer Academic Publishers, Netherlands.
8. Halford N (2006) Plant Biotechnology - Current and future applications of genetically modified crops, John Wiley and Sons, England.

BOT516: Taxonomy of Angiosperms and Economic Botany

Credit: 3

Unit I

Latin diagnosis, definition and use of Taxonomic terms, History of Plant Taxonomy, in India, History of Plant Classification, Need and aim of classification, Units of classification, delimitations of taxa and their practical consideration, Artificial, Natural and Phylogenetic system classification, a critical study of Takhtajan, Modern system of classification, An introduction of angiosperm Phylogeny Group (APG), Characteristics and phylogeny of orders

Unit II

Need and aim of nomenclatures, International rules of Botanical Nomenclature, Concept of species, genus and family with special reference to the type concept

Unit III

Interrelationship of plant taxonomy with morphology, anatomy, embryology, palynology, cytology, genetics, Biosystematics, biochemical and molecular systematics, Numerical taxonomy, Phytogeography and phytochemistry

Unit IV

Indigenous flora of India with special reference to local flora (Uttar Pradesh), A general knowledge of Herbarium, and Botanical garden of the world and India, Identification keys

Unit V

An introduction to plant utilization, Economic importance of plant for food (cereals, pulses, vegetables, fruits, oils sugar, spices and condiments), non-alcoholic beverages (Tea, coffee, cocoa), medicines, fiber, timber, rubber, tannins and dyes, masticatories, fumicatories, contribution of plants in the development of industries

Suggested readings:

1. Sambamurty, A.V. S. S. 2005. *Taxonomy of Angiosperms*. I. K. International Pvt. Ltd., New Delhi.
2. APG III 2009. An update of the Angiosperm Phylogeny Group Classification for the Orders and Families of Flowering Plants: APG III. *Bot. J. Linn. Soc.* 161: 105-121.
3. Bhattacharyya, B. and B. M. Johri. 1998. Flowering Plants - Taxonomy and Phylogeny. Narosa Publishing House, New Delhi.
4. Heywood, V. H. and Moore, D. M. 1984. Current Concepts in Plant Taxonomy. Oxford University Press.
5. Duthie, J. F. "Flora of upper gangetic plain and of the adjacent siwalik & sub-himalayan tracts," Calcutta, Vol. 3, No. 1, 1915.
6. Sharma, O. P. 1993. *Plant Taxonomy*. Tata McGraw Hill Publishing Co. Ltd., New Delhi.
7. Stace, C. A. 1989. *Plant Taxonomy and Biosystematics*. University Park Place, Baltimore (2nd edn.)
8. Takhtajan A. 2009. *Diversity and classification of flowering plants*, 2nd edn. Berlin: Springer.
9. Verma, B. K. 2010. *An introduction to Taxonomy of Angiosperms*. PHI Learning Pvt. Ltd. New Delhi.
10. Jones, SB Jr. and Luchsinger, AE. 1986. *Plant Systematics* (2nd edition). McGraw Hill Book Co., New York.

Unit I

Introduction to ecology, and environmental terminology, population dynamics, vegetation organization and development: population characteristics, population growth forms, density dependent and density independent controls, population structure (distribution, aggregation, isolation territoriality) energy partitioning, r - and k-selection, concept of carrying capacity; Wild life sanctuaries, botanical gardens

Unit II

Concepts of community and continuum, analysis of communities (analytical and synthetic characters), community coefficients, competition, ecological niche, succession, mechanism of ecological succession (relay floristic and initial floristic composition facilitation, tolerance and inhibition models), concept of climax

Unit III

Ecosystem organization, structure and function: primary production (methods of measurement), energy dynamics (tropic organization, energy flow pathway, energy quality, ecological efficiencies), biogeochemical cycles

Unit IV

Pollution and climate change: kinds, sources and effects of pollution, heavy metals (Pb, Cd, Hg), green house gases (CO₂, CH₄, N₂O, CFCs), Green-house effect and global warming, ozone layer depletion and ozone hole, acid rain

Unit V

Environmental impact assessment, threatened and endangered plant species, role of diversity in ecosystem stability, general account of remote sensing and its application, sustainable development. Major terrestrial biomes, biogeographical area of India, major vegetations

Suggested reading:

1. Odum, E. P. and Barret G.W. 2005. Fundamentals of Ecology. Cengage publication
2. Odum, E.P., 1983. Basic Ecology., Saunders College Publishing
3. Singh, J.S., Singh S.P. and Gupta S.R. 2006. Ecology Environment and Resource Conservation. Anamaya Publishers

BOT 542: Lab Work III (based on Course BOT 514 and BOT 515)

Credits: 4

BOT 543: Lab Work IV (based on Course BOT 516 and BOT 517)

Credits: 4

SEMESTER – III**BOT665: Plant Physiology****Credits: 3****Unit I**

Plant water relations: Transport and translocation of water and solutes, water potential and components, mechanism of water transport, mineral nutrition, nutrient uptake, solute transport, phloem loading and unloading.

Unit II

Nitrogen metabolism, respiration and lipid metabolism: Biological nitrogen fixation, nodule formation and nod factors, mechanism of nitrate uptake and reduction, ammonium assimilation, Interaction of nitrogen assimilation with carbon metabolism. Glycolysis, TCA cycle, electron transport and ATP synthesis, pentose phosphate pathway, Cyanide resistant respiration, Lipid metabolism

Unit III

Photochemistry and photosynthesis: History of photosynthesis, photosynthetic apparatus, photoreceptor, light reaction of photosynthesis, photo oxidation of water mechanism photophosphorylation, Structure and function of Rubisco and PEP Carboxylase, carbon assimilation, Calvin cycle, photorespiration and its significance, C₄ cycle, CAM pathway

Unit IV

Plant growth substances and signal molecules: Chemical structure, physiological effects and mechanism of action of auxin, gibberellins, cytokinins, ethylene abscisic acid. Growth regulator nature of Polyamines, Jasmonic acid Salicylic acid and Brassinosteroids, systemin, secondary metabolite and plant defense

Unit V

Growth and Development Aspects: Metabolic changes during seed germination, factors affecting seed germination and dormancy, breaking of dormancy, biochemistry of flowering: initiation and development of flower, induction of flowering- vernalization, physiology and biochemistry of leaf abscission and senescence. Sensory photobiology: Phytochromes and cryptochromes and their photochemical and biochemical properties, photophysiology of light-induced responses, cellular localization, molecular mechanism of action of photomorphogenic receptors, signaling and gene expression

Suggested readings:

1. Taiz and Zeiger, 2010, Plant Physiology, 5th Edition, Sinauer Associates
2. Hopkins, W.G. and Huner N.P.A., 2009, Introduction to Plant Physiology, 4th Edition Wiley International Edition, John Wiley & Sons, USA
3. Jones, Russell L. Buchanan, Bob B. Guissem, Wilhelm., 2002, Biochemistry and Molecular Biology of Plants. American Society of Plant Physiologists.
4. Peter Scott, Physiology and Behaviour of Plants. Wiley-Blackwell.
5. Frank Boyer Salisbury and Cleon Ross, 1991, Plant Physiology, CA

BOT666: Plant Biochemistry and Biochemical Techniques

Credits: 3

Unit I

Bioenergetics: Law of thermodynamics, concept of enthalpy and entropy and their significance in biological systems, Water biochemistry, high energy molecules, redox potential; Amino acids and proteins: Structure and physicochemical properties of amino acids; Proteins: Primary, secondary, tertiary and quaternary structure of proteins, physical and chemical properties of proteins and biological significance. Enzymes: Classification, physicochemical nature, enzyme kinetics, mechanism of action and regulation, allosteric enzyme, isoenzyme, zymogen

Unit II

Carbohydrates: Structure and physico-chemical properties of carbohydrates, biological significance, important glycoprotein, Lipids: Classification, structure and properties of important lipids, biological significance of glycolipids, fatty acid biosynthesis and storage lipids and their catabolism, Vitamins and Coenzymes: Structure and general biochemistry.

Unit III

Buffers and Solutions, Definition and Principle of Electrophoresis, Agarose Gel Electrophoresis, Polyacrylamide Gel Electrophoresis (PAGE), Native PAGE, SDS-PAGE; 2D-Electrophoresis, Isoelectric Focusing (IEF): Principles and Kinds of pH Gradients used In IEF- Immobilized pH Gradients, DIGE; Principle and Techniques of Centrifugation, Separation of Sub-cellular Fractions, Ultracentrifugation, isopycnic, density gradient centrifugation

Unit IV

Chromatography: Basic concept, Paper, TLC, HPLC, GC, Size-exclusion chromatography, Ion-exchange chromatography, Hydrophobic Interaction chromatography and Affinity chromatography; Labeling Techniques: Radiolabeling and Fluorescent labeling of biomolecules and their detection, Safety guidelines

Unit V

Biophysical Techniques: Spectroscopy - Basic Concept, MALDI-TOF, Mass Spectroscopy, X-Ray Diffraction, FTIR, NMR and ESR Spectroscopy; Microscopy: Light, Phase Contrast, Confocal, Fluorescence, Scanning and Transmission Electron Microscopy

Suggested readings:

1. Wilson, K. and Walker, J., 2000, Practical Biochemistry: principles & techniques. Cambridge University Press. ISBN 0521799651.
2. Buchanan, B., Gruissem, W., & Jones, R.L., 2002, Biochemistry and Molecular Biology of Plants. American Society of Plant Biologists, USA.
3. Watson, JD, Baker, TA, Bell, SP, Gann, A, Levine, M and Richard, L. 2008. Molecular Biology of the Gene. Pearson Education Inc.
4. Nelson, D.L. and Cox, M.M., 2008, Lehninger Principles of Biochemistry, W. H. Freeman & Co, New York, USA

5. Murray, R, Murray, RK, Bender, D, Gotham, KM, Kennelly, PJ, Rodwell, V and Weil, PA. 2012. Harper's Illustrated Biochemistry McGraw Hill
6. Wilhelm Gruissem, Russell L.Jones, 2000, Biochemistry and molecular biology of plants. American Society of Plant Physiologists,
7. Berg, J.M., Tymoczko, J.L. & Stryer, L. 2011, Biochemistry, Freeman & Co., New York, USA.
8. Weil, J.H., 1990, General Biochemistry, Wiley Eastern Limited, New Age International Limited. New Delhi.
9. Lea P.J. and Leegood R.C., 1999, Plant Biochemistry & Molecular Biology, John Wiley & Sons, New York.

BOT667: Cytogenetics, Plant Breeding and Biostatistics

Credits: 3

Unit I

Basic concept and organization: Chromosome structure, special type of chromosomes- Polytene chromosomes, lamp brush chromosomes, B chromosomes. Gene concept; allele concept, multiple alleles, isoalleles, Pseudoalleles, Cell division, Inheritance Genetics: Principles of Mendelian Inheritance and interaction of genes

Unit II

Cytoplasmic inheritance involving chloroplast and mitochondria, interaction between nuclear and cytoplasmic genes, Sex determination in plants, Cytogenetics and Induced Variations: Linkage and recombination: Concept of Linkage, evolution of linkage concept, cis and trans arrangement of linked gene, kinds of linkage, germinal and somatic crossing over, detection of crossing over, kinds of crossing-over

Unit III

Mutation: Spontaneous and induced mutations, point mutation, transitions, transversions, physical and chemical mutagens, molecular basis of mutations. Numerical alterations in chromosomes: Euploidy, polyploidy and its significance, aneuploidy, Structural changes in chromosomes: Deficiency, duplication, inversion, translocation heterozygotes

Unit IV

Plant Breeding: Breeding systems, methods, selection in self and cross pollinated crops, male sterility, self-incompatibility, heterosis and hybrid vigor

Unit V

Biostatistics: General concepts and terminology, sampling methods, Measures of location, scale and shape, contingency tables and chi-square test, comparison of means: t-test, multiple range tests, Simple experimental design and analysis of variance, correlation and regression analysis, Introduction to multivariate methods, Types of statistical software and their application in analysis of data

Suggested reading:

1. Clark, M.S. and Wall, W.J. 1996, Chromosomes : The Complex Code. Chapman & Hall, London.
2. Stebbins, G.L. 1950, Variation and Evolution in Plants. Columbia Univ. Press, New York.
3. Swanson, C. P., Mertz, T.F. and Young, W.J. Cytogenetics : The Chromosomes in Division, Inheritance and Evolution (2nd Edn). Englewood Cliff, Prentice-Hall, New Jersey.
4. Sharma, A.K. and Sharma, Archana. 1985. Advances in Chromosome and Cell Genetics. Oxford & IBH Publishing Co., Calcutta.
5. Schnedl, W.. Banding patterns in chromosomes. In: International Review of Cytology (Suppl. 4).
6. Lewine, Benjamin, Jones and Bartlet, Genes X, Sudbury, Masschusetts
7. Gupta, P.K., Cytogenetics, Rastogi Publication, Meerut
8. Peter, D, Snustand and Simmons, M.J., John Wiley and Sons Inc.

BOT668: Microbiology

Credits: 3

Unit I

Introduction to microbiology, history and scope of microbiology, tools and techniques used in microbiology laboratory, Microbial evolution, Systematics and taxonomy of microorganisms. Primitive organisms, their metabolic strategies and molecular coding. Microbes of the extreme environment and their metabolic strategies. The microbial cell: general organization of cell and cell wall of prokaryotes, eukaryotes and Archaea, prokaryotic and eukaryotic cell structure and function,

Unit II

Introduction and general characteristics of Viruses, bacteriophages, Plant Viruses—their morphology, taxonomy, reproduction and transmission, Viruses of algae, fungi and insects. General account of Mycoplasma

Unit III

Microbial nutrition, microbial growth, Gram negative and Gram positive bacteria, Archaeobacteria, actinomycetes, Quorum sensing in Bacteria: gram negative bacteria: LUXI LUXR-Type: gram positive bacteria: peptide mediated quorum sensing, genetics, bacterial recombination and plasmids, Bacterial conjugation, DNA transformation, Transduction,

Unit IV

Microbiology of food, food spoilage and preservation processes, microbiology of fermented foods, oriental foods, dairy foods, wine, beer and other fermented alcoholic beverages, bread and other fermented plant products, Microbial production of organic acids, antibiotics, amino acids, vitamins, recombinant products, microorganisms as source of foods.

Unit -V

Rhizosphere, Phyllosphere, Mycorrhizae, Actinorrhizae, Tripartite associations, PGPRs, microbes in agriculture

Suggested readings:

1. Madigan, M.T., Martinko, J.M., Dunlap, P.V., Clark, D.P., 2011. Brock Biology of Microorganiss. 13th edition, Pearson Education Inc.
2. Stanier, R.Y., Ingraham, J.L., Wheelis, M.L., Painter, P.R., 1987. General Microbiology. Fifth edition. MacMillan.
3. Atlas, R.M. 1995. Principles of Microbiology. Mobsy.
4. Lim, DV. 2003. Microbiology. Kendall/Hunt.
5. Boundless.2013. Microbiology. Boundless Learning, Incorporated.
6. Comelissen, CN, Harvey, RA and Fisher, BD. 2012. Microbiology. Lippincott Williams & Wilkins.
7. Talaro, K.P., Chess, B. 2011, Foundations in Microbiology. 8th edition. McGraw-Hill.
8. Willey, J.M., Sherwood, L., Woolverton, C.J., 2010. Prescott's Microbiology. 8th edition, McGraw-Hill.
9. Agrios, G. N., 1988. Plant Pathology, Academic Press.
10. John A Lucas, 1998. Plant Pathology and Plant Pathogens, Wiley-Blackwell, CRC Press.
11. Dickinson, C. M., 2003. Molecular Plant Pathology, Bios Scientific Publisher
12. Robert, N., Trigiano, Windham, M. T. and Windham, A.S., 2003. Plant Pathology: Concepts and Laboratory Exercises, CRC Press.
13. Bridge, P.D and Clarkson, J.M., 1998. Molecular Variability of Fungal Pathogens, CAB, International
14. Singh, R. S., 2008. Plant Diseases, Oxford and IBH Publishing Co. Pvt Ltd
15. Pelczar, JM, Chan, ECS and Krieg, MR. 1993. Microbiology. Tata McGraw Hill.

BOT 684: Lab Work V (based on Course BOT665 and BOT666)

Credits: 4

BOT 685: Lab Work VI (based on Course BOT667 and BOT668)

Credits: 4

SEMESTER – IV

BOT670: Molecular Biology and Molecular Techniques

Credits: 3

Unit I

Structure and conformation of nucleic acids; Replication of DNA; DNA damage and repair; Gene structure; Transcription of gene; Structure of mRNA, rRNA and tRNA, Regulation of transcription, Posttranscriptional modification of RNA, RNA editing; Transport of RNA

Unit II

Protein synthesis: Genetic code, Mechanism of translation (initiation, elongation and termination); Post-translational modification; Protein sorting in the cell, Regulation of protein synthesis in prokaryotes and eukaryotes.

Unit III

Signal transduction: Overview of receptors and G-proteins, phospholipids signifying role of cyclic nucleotides, calcium-calmodulin cascade diversity in protein kinase and phosphates specific signaling mechanism, Secondary messengers; Gene silencing mechanisms, Epigenetics

Unit IV

Isolation and Purification of Nucleic Acids, Electrophoresis and quantification of nucleic acids, DNA Sequencing: Sanger's Dideoxy Method, Maxam and Gilbert Method, High throughput sequencing, Nuclear run-on assay, Nucleic acid blotting techniques, DNA Synthesis, Chromatin remodeling

Unit V

Isolation and purification of protein, Electrophoresis and quantification of proteins, Western Blotting, Protein-nucleic acid interaction analysis, Protein-protein interaction analysis; ELISA, RIA; Protein immunoprecipitation, Protein sequencing strategies, Radioactive isotope labeling, Mass spectrometry

Suggested readings:

1. Buchanan, B., Gruissem, W., & Jones, R.L., 2002, Biochemistry and Molecular Biology of Plants. American Society of Plant Biologists, USA.
2. Lodish, Harvey, Berk, Arnold, Chris A. Kaiser, Monty Krieger, Matthew P. Scott, Anthony Bretscher, Hidde Ploegh, Paul Matsudaira Molecular Cell Biology, 6th Ed. W.H. Freeman and Comp., New York
3. Bourton E. Tropp, Molecular Biology, 4th Ed., Jones & Barlett learning
4. Brown, T.A., DNA Cloning and Gene Sequencing Willey-Blackwell, Oxford
5. Genes IX by Benjamin Lewin, Jones and Barlett
6. Y Gerald Karp, Cell and Molecular Biology 6th Ed., John Willey & Sons
7. Nelson, D. L. and Cox, M.M., 2008, Lehninger Principles of Biochemistry, Fifth Edition, W. H. Freeman & Co, New York, USA.
8. Cooper, G.M. and Robert, E. Hausman The Cell: A Molecular Approach 5th Ed. (Co-published by ASM Press and Sinauer Assoc. Inc.)
9. Watson, JD, Baker, TA, Bell, SP, Gann, A, Levine, M and Richard, L. 2008. Molecular Biology of the Gene. Pearson Education Inc.

BOT 671: Plant Biotechnology, Bioinformatics and IPR

Credits: 3

Unit I

A brief introduction to Biotechnology; Recombinant DNA technology: Restriction endonucleases, DNA Modifying enzymes, DNA polymerases; Vectors, Markers and reporter genes, Cloning, Screening of recombinant clone; Polymerase chain reaction: Principle, method, variants and practical applications; cDNA

Unit II

Gene cloning and identification: Genomic and cDNA library, Hybridization techniques: Southern, northern and western hybridization; FISH; Molecular markers: RFLP, RAPD, AFLP, SSR, SNP; Functional genomics: Quantitative Real Time PCR, Microarray, RNA interference, Mutagenesis and Genome editing, Protein Production strategies in Expression System; Metagenomics

Unit III

Methods of gene transfer, Agrobacterium mediated genetic transformation of plants, Regeneration methodologies and Screening of transformants; Genetic engineering and its applications in Agriculture: Genetic manipulation of pest resistance, abiotic and biotic stress tolerance, Molecular farming; Transformation of chloroplast genome and its advantage; Biosafety concerns in Plant Biotechnology

Unit IV

Bioinformatics: Introduction, Databases (Genomic and Protein Database), Similarity Searching: BLAST and FASTA; Tools for DNA, RNA and Protein sequence analysis, ExPASy-PROSITE, Sequence Retrieval Methods, Primer Designing tools, Gene Prediction, Restriction Site Annotation, ORF Finder, Sequence Alignment; Molecular evolution and analysis methods

Unit V

Bioethics: Concept of bioethics, benefits and harm, consent, privacy and confidentiality, sharing of benefits; Intellectual Property Right: Definition of IPR, World Intellectual Property Organization (WIPO) and its role; Patent: kinds of patent classification, patent criteria, Procedure of obtaining patent, copy right and trade mark, Organization of patent offices in India

Suggested readings:

1. J. D. Watson, T. A. Baker, S. P. Bell, A. Gann, M. Levine & R. Losick Molecular Biology of the Gene, Cold Spring Harbor Laboratory
2. Bernard R. Glick and Jack J. Pasternak, Molecular Biotechnology: Principles and application of recombinant DNA ASM Press, Washington, D.C
3. T. A. Brown, Genomes - Garland Science (Taylor & Francis Group), New York & London
4. Alberts Bruce, Johnson Alexander, Lewis Julian, Raff Martin, Roberts Keith and Walter Peter Molecular Biology of the Cell - Garland Science
5. Lodish, Harvey, Berk Arnold, et. al.,-Molecular Cell Biology.
6. Introduction to plant biotechnology by H S Chawla

7. Elements of biotechnology by P K Gupta
8. S H Mantell, *et. al.* by Principles of Plant Biotechnology: An introduction to genetic engineering in plants
9. Plant Biotechnology by B. D. Singh, Kalyani Publications

BOT687: Lab Work VII (based on Course BOT670 and BOT671)

Credits: 4

Elective Paper

BOT672: Applied Phycology

Credits: 3

Unit I

Marine environment an introduction, Culture medium and methods, Cultivation of macro and microalgae, Seaweed farming for potential application in food industries

Unit II

Seaweeds used as a source of agar, carrageenan, Alginate, Seaweeds used as human food, Fertilizers and soil conditioners, Animal feed, Fish feed

Unit III

Bioactive phenolic compounds in seaweeds, seaweed as a source of bioactive proteins, peptides and amino acids, lipid and fatty acid profile of major seaweeds, Minerals in edible seaweeds

Unit IV

Biomass for fuel, Cosmetics, Integrated aquaculture, Wastewater treatment, Treatment of wastewater to reduce nitrogen- and phosphorus-containing compounds, Removal of toxic metals from industrial wastewater

Unit V

Algae and human affairs: edible algae, algae in single cell protein production, algal biofertilisers, phycocolloids and other useful products of algae, biotechnological application of algae.

Suggested readings:

1. Lee, Robert Edeward, Phycology, Fourth edition 2008, Cambridge University Press
2. Graham Robin South and Alan Whittick, 1998, Introduction to Phycology, Blackwell Scientific Publication
3. Bold, H.C. and Wynne, M.J., 1985, Introduction to the Algae, 2nd Edition, Prentice-Hall Inc.
4. Dixon, R., Biology of Rhodophyta, Koelt Science Publisher, West Germany
5. Fritsch, F.E., Structure and Reproduction of Algae, Vol. I & II, Cambridge University Press, Cambridge
6. Gangulee, H.C. and Kar, A.K., 2011, College Botany Vol. II (Algae+Fungi+Brophyta+Pteridophyta), New Central Book Agency, Kolkata
7. Singh, Pande, Jain, 2010, A Text Book of Botany (Algae+Fungi+Brophyta+Pteridophyta), Pub.Rastogi Publication, Meerut
- 8.

BOT673: Plant Pathology and Plant Protection

Credits: 3

Unit-I

General introduction to Plant Pathology, chemical weapons of pathogens – Enzymes and toxins; Role of growth hormones in plant diseases, Defense mechanism of the host, how the pathogen affects plant physiological functions

Unit-II

Genetics of plant disease, effect of environmental factors on the plant disease development, Plant disease epidemiology: Preexisting structural and chemical defense, induced structural and chemical defense, hypersensitive reaction, role of phytoalexins and other phenolic compounds

UNIT III

Management of plant diseases: Cultural, chemical, biological, biopesticides, breeding for resistant varieties, plant quarantine, integrated pest management

Unit-IV

Diseases caused by fungi, bacteria, viruses and mycoplasma

Unit-V

Molecular plant pathology: Molecular aspects of host pathogen interactions - PR proteins, degradation of phytoalexins, systemic resistance mechanism; application of molecular biology to plant disease control - transgenic approach for crop protection, engineering chemicals that elicit defense response to plants

Suggested readings:

1. Willey, J.M., Sherwood, L., Woolverton, C.J., 2010. Prescott's Microbiology. 8th edition, McGraw-Hill.
2. Agrios, G. N., 1988. Plant Pathology, Academic Press.
3. John A Lucas, 1998. Plant Pathology and Plant Pathogens, Wiley-Blackwell, CRC Press.
4. Dickinson, C. M., 2003. Molecular Plant Pathology, Bios Scientific Publisher
5. Robert, N., Trigiano, Windham, M. T. and Windham, A.S., 2003. Plant Pathology: Concepts and Laboratory Exercises, CRC Press.
6. Bridge, P.D and Clarkson, J.M., 1998. Molecular Variability of Fungal Pathogens, CAB, International
7. Singh, R. S., 2008. Plant Diseases, Oxford and IBH Publishing Co. Pvt Ltd
8. Singh, R. S., 2008. Principles of Plant Pathology, Oxford and IBH Publishing Co. Pvt Ltd.
9. Dhingra, O.D. and James, B. Sinclair, 1995. Basic Plant Pathology Methods, CRC Press
10. Pelczar, JM, Chan, ECS and Krieg, MR. 1993. Microbiology. Tata McGraw Hill.
11. Bishen, PS. 2014. Microbes in Practice. I.K. International Publishing House Pvt. Ltd.
12. Aneja, KR, Jain, P and Aneja, KR. 2008. A Text book of Basic and Applied Microbiology. New Age International Publishers, New Delhi.

BOT674: Biology of Bryophytes

Credits: 3

Unit I

Classification, structure and life history of some Hepatics, Anthocerotes and mosses with special reference to Indian forms

Unit II

Ecology and geographical distribution with special reference to Bryogeographical units of India flora

Unit III

Physiology in relation to environment and reproduction, Conducting tissues and water relation. Some naturally occurring growth substances

Unit IV

Regeneration and vegetative reproduction. Apogamy and apospory. Spore germination and initial stages in gametophyte development. Protonemal differentiation and bud induction

Unit V

Antibiotic activities of bryophytes, bryophytes and pollution, local bryophyte flora, Fossil history and recent advances in Bryology

Suggested readings:

1. Parihar N. S. 1965, An Introduction to Embryophyta- Bryophyta. Central Book Depot. Allahabad.
2. Kashyap S. R. 1972, Liverworts of the Western Himalayas & the Punjab Plains. Part 1 & 2.
3. Richardson D. H. S, The Biology of Mosses.
4. Janice. M. Glime, 2006, Bryophyte Ecology.
5. Goffinet B. & Shaw. A. J. 2008, Bryophyte Biology.
6. Gangulee, H.C. and Kar, A.K., 2011, College Botany Vol. II (Algae+Fungi+Brophyta+Pteridophyta) , New Central Book Agency, Kolkata
7. Singh, Pande, Jain, 2010, A Text Book of Botany (Algae+Fungi+Brophyta+Pteridophyta) , Pub.Rastogi Publication, Meerut

BOT675: Taxonomy of Angiosperm

Credits: 3

Unit I

History of plant Taxonomy of the world, history of plant classification of the world, Modern system of classification. Angiosperm Phylogeny Group (APG): Outline of Classification, function and Application

Unit II

International Code of Nomenclature (ICN): Principles, rules and recommendations and appendices; application of nomenclature.

Unit III

Biodiversity: characterization, generation maintenance and loss, magnitude, distribution and conservation, remote sensing. Indigenous flora of the country with special reference to local flora and flora of the special habitats, Methods of plant identification

Unit IV

Inter relationship of plant taxonomy with morphology, anatomy, embryology, palynology, cytology, genetics, phytogeography and Chemistry. Biosystematics, serology and molecular systematic and numerical taxonomy.

Unit V

Botanical gardens, Herbarium, digital herbarium and their significance, Herbarium techniques, Applications of plant taxonomy in medicine, forensic science and urbanization (indoor and outdoor plants)

Suggested readings:

1. Sambamurthy, A.V. S. S. 2005. *Taxonomy of Angiosperms*. I. K. International Pvt. Ltd., New Delhi.
2. APG III 2009. An update of the Angiosperm Phylogeny Group Classification for the Orders and Families of Flowering Plants: APG III. *Bot. J. Linn. Soc.* 161: 105-121.
3. Bhattacharyya, B. and B. M. Johri. 1998. *Flowering Plants - Taxonomy and Phylogeny*. Narosa Publishing House, New Delhi.
4. Heywood, V. H. and Moore, D. M. 1984. *Current Concepts in Plant Taxonomy*. Oxford University Press.
5. Duthie, J. F. "Flora of upper gangetic plain and of the adjacent siwalik & sub-himalayan tracts," Calcutta, Vol. 3, No. 1, 1915.
6. Jain, S.K. and Rao, R.R. 1977. *A Handbook of Field and Herbarium Methods*. Today and Tomorrow's Printers and Publishers, New Delhi-
7. Rao, R. R. 1994. *Biodiversity in India (Plant Aspects)*, Bishan Singh Mahandrapal Singh, Dehradun.
8. Sharma, O. P. 1993. *Plant Taxonomy*. Tata McGraw Hill Publishing Co. Ltd., New Delhi.
9. Singh, V. & Jain, D.K. 2006. *Taxonomy of Angiosperms*. : [Rastogi Publications](#), Meerut.
10. [Singh](#), Gurcharan 2012. *Plant Systematics: An Integrated Approach-* [Science Publishers](#), Enfield, (3rd edn.)
11. Stace, C. A. 1989. *Plant Taxonomy and Biosystematics*. University Park Place, Baltimore (2nd edn.)
12. Takhtajan A. 2009. *Diversity and classification of flowering plants*, 2nd edn. Berlin: Springer.
13. Verma, B. K. 2010. *An introduction to Taxonomy of Angiosperms*. PHI Learning Pvt. Ltd. New Delhi.
14. Jones, SB Jr. and Luchsinger, AE. 1986. *Plant Systematics (2nd edition)*. McGraw Hill Book Co., New York.
15. Pandey, A. K., J.V.V. Dogra & Wen, J. 2006. *Plant Taxonomy: Advances and Relevance*. CBS Publishers & Distributors Pvt. Ltd.
16. Subrahmanyam, N. S. *Taxonomy of Angiosperm*, Vikas publishing house Pvt Ltd.
17. Pullai, T. 2007. *Taxonomy of angiosperm*. Regency publications, New Delhi.

BOT676: Biology & Diversity of Pteridophytes and Gymnosperms

Credits: 3

Unit I

Salient features of pteridophytes and gymnosperms, their origin, evolution and distribution in Geological Time Scale. Classification of pteridophytes and gymnosperms- traditional and modern system

Unit II

Comparative studies on the vegetative and reproductive organographics, evolutionary tendencies and affinities of members belonging to Psilophytales, Psilotales, Lycopodiales, Sphenophyllales, Coenopteridales and Filicales

Unit III

Cytogenetics and Ferns, Nature of Ferns Breeding systems, genetic load. Culture of fern gametophytes, photomorphogenesis in fern gametophytes. Ecological diversity and pteridophytes, pteridophytic flora of India, endangered pteridophytes and their conservation

Unit IV

Vegetative morphology and reproductive biology of Pteridosperms, Cycadales, Benneitales, Pentoxilales, Ginkgoales, Coniferales, Taxales, Gnetales

Unit V

Ecological of modern gymnosperms, distribution of gymnosperms in India, endangered gymnosperms and their conservation, Tissue culture and biotechnology of gymnosperms, Economical importance of gymnosperms

Suggested readings:

1. Gangulee, H.C. and Kar, A.K., 2011, *College Botany Vol. II (Algae+Fungi+Brophyta+Pteridophyta)*, New Central Book Agency, Kolkata
2. Singh, Pande, Jain, 2010, *A Text Book of Botany (Algae+Fungi+Brophyta+Pteridophyta)*, Pub. Rastogi Publication, Meerut
3. Rashid, A, 2011, *An Introduction to Pteridopyta*, 2nd edition, (Reprint), Pub. Vikas Publishing House Pvt. Ltd., Noida.
4. Gifford, Ernest, M., Foster, Adriance.S., 1989, *Morphology and Evolution of vascular plant*. W. H. Freeman; Third Edition.
5. Ogura, Yuzuru., 1972, *Comparative anatomy of vegetative organs of the pteridophytes*. Gebr. Borntraeger; 2nd edition.
6. Rashid, A.1999, *An introduction to pteridophyta: Diversity,Development,Differentiation*. Vikas Publishing House Pvt Ltd.
7. Parihar, Narayan Singh., 1977, *The biology and Morphology of the pteridophyte*. Central Book Depot

8. Eames, A.J. (1936) Morphology of Vascular plant-lower group. Tata Mc Graw Hill, New Delhi.
9. Chamberlain, Charles Joseph, b.1863, Gymnosperm S; Structure and Evolution. Chicago, Ill., The University of Chicago Press
10. Chhaya Biswas and B.M. Johri. The Gymnosperm. Springer; 1997 edition (16 April 2014)
11. Bhatnagar, S.P. Moitra, Alok. 1996. Gymnosperms. New Age International.
12. Pant D.D. 2002, An introduction to gymnosperms, cycas, and cycadales, Birbal Sahni Institute of Palaeobotany.

BOT677: Advanced Plant Anatomy and Palynology

Credits: 3

Unit-I

Cell, cell wall, biochemical and structural organization of cell wall, Meristems – Organizations of root apical meristem (RAM), shoot apical meristem (SAM), Tissue and tissue systems.

Unit-II

Xylem and phloem – Ontogeny, phylogeny, and ultrastructure, transfer cells, Secretory and excretory structures. Primary and secondary structure of root and stem. Origin and development of lateral roots, nodal anatomy and root stem transition.

Unit-III

Leaf structure, systematic significance of trichomes and stomata, Vascular cambium and derivatives, periderm, anomalous secondary growth, Floral morphology and anatomy, Applications of anatomy.

Unit-IV

Structure of wood, physical properties of wood and taxonomic significance, anatomy in relation to taxonomy, Ecological anatomy, methods used in anatomy

Unit-V

Palynology: Definition, subdivision of palynology, application of palynology, Pollen morphology: Polarity, symmetry, apertures, sporoderm, palynotaxonomy. aeropalynology. Palaeopalynology, Melissopalynology, Palynological techniques

Suggested readings:

1. Agashe, S.N. (2006), Palynology and its applications. Oxford & IBH Publishing Co. Pvt. Ltd.
2. Bhattacharya, K.N., Majumdar, M. R., Bhattacharya, Swati Gupta (2006), A Text of Palynology, New Central Book Agency.
3. Butterfield B.G & Meylan B.A.(1980)-Three- Dimensional structure of wood.Landon New York.
4. Carlquist, S.C. (1961), Comparative Plant Anatomy Holt, Rinehart and Winston, New York Press.
5. Carlquist S. (2001), Comparative Wood Anatomy Systematic, Ecological and Evolutionary Aspects of Dicotyledon Wood.
6. Cutter, Elizabeth (1969), Plant Anatomy part –I Cells and Tissues IInd edition, Edward Arnold, London
7. Cutter, Elizabeth (1971), Plant Anatomy Part- II Organs ,Edward Arnold London
8. Dickison W.C. (2000), Integrative Plant Anatomy. Academic Press
9. Eames, Arthur J. & Mac Daniels Laurence H. (1951), An Introduction To Plant Anatomy, McGraw Hill.
10. Erdtman, G. (1986), Pollen Morphology and Plant Taxonomy, published by Brill Archive,
11. Esau, Katherine, (1965), Plant Anatomy, , John Wiley and Sons. Inc, New York.
12. Esau, Katherine, (1960), Anatomy of seed Plants. Wiley, New York.
13. Evert, Ray. F. (1960), Esau's Plant Anatomy. John Wiley & Sons.
14. Fahn, A. (1982), Plant Anatomy Vol I and Vol II Pergamon Press. Oxford New York.
15. Jane F.W (1934)-Aspects of the Study of Wood Anatomy. Science Reviews 2000 Ltd.
16. J. Mauseth, James D. (1988) Plant Anatomy. Benjamin/Cummings.
17. Pearson and Brown, (1981) -Commercial Timbers of India.
18. Rao K.R and Purakayastha S.K(1972) - Indian woods:their identification , properties and uses.
19. Wodehouse, R.P. (1935). Pollen grains, their structure identification and significance in science and medicine. McGraw-Hill. New York.
20. Wilson K, James D, White, B. (1986) - The Anatomy of Wood, it Diversity and Variability.Stobart&Son Ltd.

BOT678: Ecology and Environment

Credits: 3

Unit-I

Plant Ecology: Characteristics of a population, population growth curves, population regulation and r and k selection, concept of metapopulation

Unit-II

Community Ecology: Nature of communities, community structure and attributes, analytical, quantitative and qualitative characters and synthetic characters, levels of species diversity and its measurement edges and ecotones, life forms.

Unit-III

Ecological succession: Types, mechanisms, change involved in succession.

Unit-IV

Ecosystem Ecology: Ecosystem – structure and function, major ecosystems, energy flow, mineral cycling (C,N,P), primary production and measurement, structure and function of terrestrial and aquatic ecosystems.

Unit-V

Applied Ecology: Environmental pollution, biodiversity, biodiversity management, Project tiger, biosphere reserves, conservation biology, principles of conservation, conservation and management strategy, green house gases and sources

Suggested reading:

1. Odum, E. P. and Barret G.W. 2005. Fundamentals of Ecology. Cengage publication
2. Odum, E.P., 1983. Basic Ecology., Saunders College Publishing
3. Singh, J.S., Singh S.P. and Gupta S.R. 2006. Ecology Environment and Resource Conservation. Anamaya Publishers

BOT679: Advanced Cytogenetics

Credits: 3

Unit I

Ultrastructure of chromosomes, karyotype analysis, structural changes in chromosomes, numerical changes in chromosomes, Human karyotype

Unit II

Mendelian inheritance, Epistasis, Linkage, Crossing over, non- mendelian inheritance

Unit III

Quantitative inheritance, Induced mutagenesis, Molecular basis of mutation, Mechanisms of sex determination, sex linked inheritance.

Unit IV

Gene concept, Modern concept of gene, genetic code, gene mapping, gene expression and regulation

Unit V

Plant genetic engineering-tools and techniques, Applications of genetic engineering, *nif*-genes

Suggested reading:

1. Clark, M.S. and Wall, W.J. 1996, Chromosomes : The Complex Code. Chapman & Hall, London.
2. Stebbins, G.L.1950, Variation and Evolution in Plants. Columbia Univ. Press, New York.
3. Swanson, C. P., Mertz, T.F. and Young, W.J. Cytogenetics : The Chromosomes in Division, Inheritance and Evolution (2nd Edn). Englewood Cliff, Prentice-Hall, New Jersey.
4. Sharma, A.K. and Sharma, Archana. 1985. Advances in Chromosome and Cell Genetics. Oxford & IBH Publishing Co., Calcutta.
5. Schnedl, W.. Banding patterns in chromosomes. In: International Review of Cytology (Suppl. 4).
6. Lewine, Benjamin, Jones and Bartlet, Genes X, Sudbury, Masschusetts
7. Gupta, P.K., Cytogenetics, Rastogi Publication, Meerut
8. Peter, D, Snustand and Simmons, M.J., John Wiley and Sons Inc.

BOT680: Advanced Plant Physiology

Credits: 3

Unit I

Biological membrane: Structure and function of biological membrane, Experimental evidence for dynamic nature of membrane; Assimilation of nutrients: Nitrogen, sulfur, phosphorus and oxygen.

Unit II

Respiration: Respiration under aerobic and anaerobic conditions and its regulatory mechanism, significance of anaerobic respiration, Citric acid cycle and its amphibolic nature, Respiration is coupled to other pathways.

Unit III

Photosynthesis: Excitation energy and fate of excitation, Key experiments in understanding of light reaction, Repair and regulation of the photosynthetic machinery, Regulation of C₃ cycle and C₄ cycle, Photosynthetic responses to light, temperature and carbon dioxide, Experimental evidence for ATP generation.

Unit IV

Signaling pathway: Signaling pathway of Phytochrome, Auxin, Gibberellins, Cytokinins, Ethylene, Abscisic acid, Brassinosteroids; Vernalization: Vernalization and biochemical signaling in flowering

Unit V

Stress physiology: Abiotic stress - Water deficit and drought tolerance, Heat stress and heat shock, Chilling and freezing stress, salinity stress, Oxygen deficiency; Biotic stress; Oxidative stress: generation of oxidants, indicators of oxidative stress, antioxidants- enzymatic and non-enzymatic antioxidants.

Suggested readings:

1. Taiz and Zeiger, 2010, Plant Physiology, 5th Edition , Sinurer Associates
2. Hopkins, W.G. and Huner N.P.A., 2009, Introduction to Plant Physiology, 4th Edition Wiley International Edition, John Wiley & Sons, USA
3. Jones, Russell L. Buchanan, Bob B. Guissem, Wilhelm., 2002, Biochemistry and Molecular Biology of Plants. American Society of Plant Physiologists.
4. Peter Scott, Physiology and Behaviour of Plants. Wiley-Blackwell.
5. Frank Boyer Salisbury and Cleon Ross, 1991, Plant Physiology, CA

BOT681: Palaeobotany

Credits: 3

Unit I

Basic geological information – structure of Earth Types of rocks, stratigraphy, basic concepts of continental drift and plate tectonics; Dating the past, Geological time scale.. Fossilization process, Types of fossils; techniques to study fossils, reconstruction and nomenclature of fossil--- concepts of Parataxa and Eutaxa, objectives of palaeobotany

Unit II

Prebiotic Environment, chemical evolution and origin of life, Pre-Cambrian life; Indian Pre-cambrian stratigraphy and life forms; Diversification of algae, fungi and bryophytes through the ages; Origin and evolution of land plants, earliest records of pteridophytes and their evolutionary tendencies

Unit III

Emergence of first seeds plants, preovules, diversification of Gymnosperms in geological time scale. First Angiosperms, Angiosperm palaeofloristics; Concept of Indian Gondwana sequence, stratigraphy and correlation of Gondwana sequence in Peninsular Indian basins; Mega and microfloristics of Indian Gondwana formation; Indian Perigondwana floras

Unit IV

Applied Palaeobotany Life as fuel maker, sources of natural fossil fuels, Peat, coal and its varieties, constitution of coal, Coal Palynology, coal maceral, Petroleum – its origin, migration and concentration, palynology in oil exploration

Unit V

Fundamentals of Paleofloristics, Palaeogeography and Palaeoclimatology; Application of Palaeopalynology .Plant and animal interactions correlation, Archaeobotany with special reference to phytoliths and palynological studies

Suggested readings:

1. Steward W.N., Palaeobotany and evolution of plant. Cambridge University Press, New York. 405 p.(1)
2. Stewart, W.N., and G.W. Rothwell. 1993 Palaeobotany and the evolution of plant. 2nd ed. Cambridge University Press, New York. 521 p.(1)
3. Andrews, H.N., jr. 1974 Palaeobotany 1947-1972 Annals of the Missouri Botanical Garden 61:179-202.(8)
4. Thomas N. Taylor. Edith L. Taylor. Michael Krings Palaeobotany: The biology and Evolution of Fossil Plants Amsterdam ; Boston, Mass.

BOT682: Applied Microbiology

Credits: 3

Unit-I

Microbiology of Air, allergic disorders by air microflora, outdoor and indoor aero-microbiology, air sampling and sampling devices. Microbiology of water, types of aquatic environments, microbial components of water, water pollution, pollution indicator microorganisms, bacteriological analysis of water, water treatment. Microbiology of Solid Wastes, Sewage (Waste water) and Industrial Waste, sewage treatment (domestic)

Unit-II

Food Microbiology: Food spoilage, microbes associated with food spoilage, food preservation methods, microbiology of milk and dairy products, microbiology of fermented foods. Industrial Microbiology: microbes in medicines, in production of organic acids, amino acids, enzymes, solvents, fuels, alcoholic beverages, vinegar, vitamins etc., microbes in metal recovery.

Unit-III

Agriculture Microbiology: Microbes-Plant Associations, free-living, associative, symbiotic nitrogen fixers, actinorrhizae, stem nodulating Rhizobia, mycorrhizal associations, Microbial Biofertilizers and Biopesticides,

Unit-IV

Environmental Microbiology: Composting, vermicomposting, Biogas production, microbial leaching, microbial degradation of petroleum, xenobiotics, microbial bioremediation, merit, scope and approaches of bioremediation, ecology and technology of bioremediation., bio-deterioration of stored plant food materials, lather, paper, fuel and lubricants, plastics, cosmetics etc.

Unit-V

Medical Microbiology: Infection and Diseases, Human Diseases caused by Fungi (mycoses; superficial, cutaneous, sub-cutaneous, systemic), Bacteria: (air-borne diseases; tuberculosis, meningitis, pneumonia, whooping cough, food-borne and water-borne diseases; botulism, Clostridial food poisoning, typhoid fever, cholera; soil-borne diseases, tetanus) and Viruses (influenza, herpes simplex, chicken pox, measles, mumps, small pox, dengue, rabies, polio, viral hepatitis, AIDS, Ebola, chicken flu, chikungunya, Swine flu, mad cow disease etc.), their diagnostics and managements

Suggested readings:

1. Stanier, R.Y., Ingraham, J.L., Wheelis, M.L., Painter, P.R., 1987. General Microbiology. Fifth edition. MacMillan.
2. Dubey, RC and Maheshwari, DK. 1999. A Textbook of Microbiology. S. Chand & Company Ltd.
3. Atlas, RM. 1995. Principles of Microbiology. Mobsy.
4. Lim, DV. 2003. Microbiology. Kendall/Hunt.
5. Boundless.2013. Microbiology. Boundless Learning, Incorporated.
6. Comelissen, CN, Harvey, RA and Fisher, BD. 2012. Microbiology. Lippincott Williams & Wilkins.
7. Talaro, K.P., Chess, B. 2011, Foundations in Microbiology. 8th edition. McGraw-Hill.
8. Tortora, G.J., Funke, B.R., Case, C.L. 2003, Microbiology: An Introduction. Benjamin Cummins
9. Willey, J.M., Sherwood, L., Woolverton, C.J., 2010. Prescott's Microbiology. 8th edition, McGraw-Hill
10. Pelczar, JM, Chan, ECS and Krieg, MR. 1993. Microbiology. Tata McGraw Hill.

BOT683: Advanced Molecular Biology and Genetic Engineering

Credits: 3

Unit I

Nucleic acid: Structure, Replication and Repair; Transcription: Gene structure, RNA synthesis, RNA processing, RNA editing, Translation: Genetic code, Mechanism of translation, Protein sorting, Post-translational modifications, Regulation of gene expression: Transcriptional and post-transcriptional control of genes.

Unit II

Genome study: Structure, Organization, Mapping and Sequencing genomes, Fifth generation DNA sequencing methods (Pyrosequencing, Ion-torrent, Nanopore sequencing), Genome evolution: Comparative and Functional Genomics, Mutation, Recombination and Repair, molecular Phylogenetics

Unit III

Proteomics: Protein structure and function, Study of Proteome, 2-D gel electrophoresis, DIGE, Peptide Mass Spectroscopy, Protein-DNA interaction, Protein Mapping (expression and interaction mapping by Yeast-2-hybrid methods and variations) Cloning and expression of cloned genes in prokaryotic and eukaryotic systems, Considerations for Heterologous protein expression and purification, Molecular farming, ELISA, Western blotting

Unit IV

Isolation, Purification, Detection and Hybridization of Nucleic Acids, Recombinant DNA Technology, Polymerase Chain Reaction, Construction of genomic and cDNA libraries, screening and selection of recombinants, Analysis of Gene Expression: SAGE, qPCR, Microarray; Random and site-directed mutagenesis, Developing transgenic plants, Knock-in, Knock-out, Genome Editing- CRISPR

Unit V

Bioinformatics: Databases, Retrieval of biological data, Sequence alignment, Restriction site annotation; Repeat Annotation of sequence Repeat Masker; ORF annotation – using ORF finder; Gene Prediction – using Gene Scan and Glimmer; Primer designing using Primer 3; Homology Search – BLAST and its variants, BLAT; Multiple Sequence Alignment – Clustal W and ClustalX; Phylogeny and molecular evolution – MEGA, EXPASY Server, RCSB Protein data banks, BLASTp; Primary structure analysis tools (Translate and reverse translate, Codon Usage, FindPept, pI/Mw computation, Peptide cutter, Mascot)

Suggested readings:

1. Molecular Biology of Cell by Bruce Alberts, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter Walter
2. Molecular Biology by Lodish Darnell and Baltimore
3. Molecular Biology of the Gene by Watson et al 4th ed.
4. Genes-X by Benjamin Lewin
5. Principles of Gene manipulation- Twyman & Primrose
6. Biotechnology by B D Singh

BOT686: Dissertation / Thesis

Credits: 4

The topic would be decided by the candidate in consultation with the respective supervisor. Dissertation/thesis will be based on existing branches of botany and the title will be decided keeping the view on the modern aspect in the related discipline. It will be the part of semester IV; however, the title of dissertation / thesis will be assigned by concerned faculty member/board in the beginning of semester III to provide sufficient time to complete dissertation / thesis.

BOT688: Lab Work VIII (based on Course BOT672)	Credits: 4
BOT689: Lab Work VIII (based on Course BOT673)	Credits: 4
BOT690: Lab Work VIII (based on Course BOT674)	Credits: 4
BOT691: Lab Work VIII (based on Course BOT675)	Credits: 4
BOT692: Lab Work VIII (based on Course BOT676)	Credits: 4
BOT693: Lab Work VIII (based on Course BOT677)	Credits: 4
BOT694: Lab Work VIII (based on Course BOT678)	Credits: 4
BOT695: Lab Work VIII (based on Course BOT679)	Credits: 4
BOT696: Lab Work VIII (based on Course BOT680)	Credits: 4
BOT697: Lab Work VIII (based on Course BOT681)	Credits: 4
BOT698: Lab Work VIII (based on Course BOT682)	Credits: 4
BOT699: Lab Work VIII (based on Course BOT683)	Credits: 4

**DEPARTMENT OF CHEMISTRY
UNIVERSITY OF ALLAHABAD
ALLAHABAD**

**B.Sc. Part - I, II, III
Syllabus & Instruction Manual**

Syllabus for B.Sc. I from 1999 & onwards

There will be three theory papers of three hours duration each.

FIRST PAPER INORGANIC CHEMISTRY

(M.M. 34)

1. ATOMIC AND NUCLEAR STRUCTURE (12)

- Bohr's and Sommerfelds' Atomic Models, de Broglie equation, Heisenberg uncertainty principle. Schrodinger wave equation, Radial and angular wave function, Physical significance and characteristics of a wave function, shapes of s, p, d and f-orbitals. Aufbau principle and electronic configuration of atoms. Periodic classification of elements (IUPAC recommendation), Long form of the periodic table including transactinoid elements.
- Structure of nucleus, fundamental particles, forces in the nucleus, nuclear stability-N/P ratio and binding energy, Packing fraction.

2. PROPERTIES OF THE ELEMENTS (12)

Atomic, Covalent and Ionic radii, Ionization potential, Electron affinity, Electronegativity including idea about group electronegativity and their variation in the Periodic table. Ionisation Potential, Lattice energy and hydration energy and their relation to solubility of ionic compounds.

3. CHEMICAL BONDING (12)

Ionic, covalent (polar and non-polar), coordinate bonds, sigma and pi-bonds, odd electron bonds, hydrogen bond, van der Waal's forces and metallic bond. Covalent character in ionic bonds (Fajans' rules), partial ionic character of a covalent bond.

4. CO-ORDINATION CHEMISTRY (10)

Double salts and co-ordination compounds. Werner's theory, Sidgwick's concept of effective atomic number (EAN), IUPAC system of nomenclature of co-ordination compounds. Types and classification of ligands.

5. ELECTRODE POTENTIAL (10)

Electrode potential and importance of electrochemical series. Electrode potential diagramme and its applications.

6. CHEMISTRY OF ZERO GROUP AND S-BLOCK ELEMENTS (12)

- Isolation and separation of inert gases from air and compounds of inert gases.
- Chemical reactivity of alkali and alkaline earth metals and group trends. Uses of s-block elements and their compounds (Li, Na and K only), Organometallic compounds of Li, Na, K, Be and Mg. Polyether complexes (crown ether complexes) of alkali metals.

7. EXTRACTION OF ELEMENTS (14)

General principles of extraction and purification of metals. Occurrence and isolation of the elements, Extraction and isolation of Li, Be and Ra from their minerals.

8. PREPARATIONS, PROPERTIES AND USES OF : (8)

- Heavy water, lithium tetrahydroaluminate, lithium stearate, basic beryllium acetate.
- Structure and Bonding of :
 H_2O_2 , $Be(BH_4)_2$, $BeMe_2$, Anhydrous beryllium chloride, basic beryllium acetate, polymeric Ca $(C_5H_5)_2$.

9. PRINCIPLES INVOLVED IN QUALITATIVE AND VOLUMETRIC ANALYSIS (10)

- (a) Chemical reactions in qualitative analysis of inorganic mixture and problems based on mixture analysis.
- (b) Applications of Co-ordination compounds in qualitative analysis.
- (c) General principles of volumetric analysis, Redox titrations, Equivalent weight, normality,, molarity and molality. Numericals based on volumetric analysis.

SECOND PAPER ORGANIC CHEMISTRY

(M.M. 33)

1. STRUCTURE AND BONDING

Hybridization bond lengths and bond angles, bond energy, localized and delocalized chemical bond, resonance, hyperconjugation, aromaticity, inductive and field effects, hydrogen bonding.

2. MECHANISM OF ORGANIC REACTIONS

Curved arrow notation, drawing electron movements with arrows, half-headed and double-headed arrows, homolytic and heterolytic bond breaking. Types of reagents electrophiles and nucleophiles. Types of organic reactions, Energy consideration, Reactive intermediates : carbocations, carbanions, free radicals, carbenes, arynes and nitrenes (with examples).

3. STEREOCHEMISTRY OF ORGANIC COMPOUNDS

Concept of isomerism. Types of isomerism.

Optical isomerism : elements of symmetry, molecular chirality, enantiomers, stereogenic centre, optical activity, properties of enantiomers, chiral and achiral molecules with two stereogenic centers, diastereomers, threo and erythro diastereomers, meso compounds, resolution of enantiomers, inversion, retention and racemization.

Relative and absolute configuration, sequence rules, D & L and R & S system of nomenclature. 'Geometrical Isomers'- Elementary idea of geometrical isomerism determination of configuration of geometrical isomers. E & Z system of nomenclature, geometrical isomerism in oximes and alicyclic compounds.

Conformational isomerism : Conformational analysis of ethane and n-butane, conformations of cyclohexane, axial and equatorial bonds, conformation of monosubstituted cyclohexane derivatives. Newman projection and Fischer formulae. Difference between configuration and conformation.

4. ALKANES AND CYCLOALKANES

Methods of formation : (with special reference to Wurtz reaction, Kolbe reaction, Corey-House reaction and decarboxylation of carboxylic acids) and chemical reactions of alkanes.

Mechanism of free radical halogenation of alkanes; orientation, reactivity and selectivity.

Cycloalkanes: Methods of formation, chemical reactions, Baeyer's strain theory and its limitations, Ring strain in small rings (Cyclopropane), theory of strainless rings. The case of cyclopropane ring: banana bonds.

5. ALKENES, DIENES AND ALKYNES

Alkenes: Methods of formation, mechanisms and dehydration of alcohols and dehydrohalogenation of alkyl halides, regioselectivity in alcohol dehydration. The Saytzeff rule, Hofmann elimination and relative stabilities of alkenes.

Chemical reactions of alkenes-mechanisms involved in hydrogenation, electrophilic and free radical additions, Markownikoff's rule, hydroboration-oxidation, oxymercuration-reduction, Epoxidations, ozonolysis, hydration, hydroxylation and oxidation with KMnO_4 . Substitution at the allylic and vinylic positions of alkenes. Structure of allenes and butadiene, methods of formation. Chemical reactions-1, 2 and 1, 4 additions, Diels-Alder reaction.

Alkynes: Methods of formation. Chemical reactions of alkynes, acidity of alkynes. mechanism of electrophilic and nucleophilic addition reactions, hydroboration Oxidation, metalammonia reductions and oxidation.

6. ARENES AND AROMATICITY

Structure of benzene; molecular formula and Kekule structure. Stability and carbon-carbon bond lengths of benzene, resonance structure, MO picture.

Aromaticity : The Huckel rule, aromatic ions.

Aromatic electrophilic substitution-general pattern of the mechanism, role of σ -and π -complexes. Mechanism of nitration. halogenation, sulphonation, mercuration and Friedel-Crafts reaction and deactivating substituents, orientation and ortho/para ratio. Side chain reactions of benzene derivatives, Birch reduction.

Methods of formation and chemical reactions of alkyl benzenes, alkynylbenzenes and biphenyl.

7. ALKYL AND ARYLHALIDES

Alkyl halides: methods of formation, chemical reactions. Mechanisms of nucleophilic substitution reactions of alkyl halides, S_N2 and S_N1 reactions with energy profile diagrams.

Aryl halides: The addition elimination and the elimination addition mechanisms of nucleophilic aromatic substitution reactions. Relative reactivities of alkyl halides vs allyl, vinyl and aryl halides.

THIRD PAPER PHYSICAL CHEMISTRY

(M.M. 33)

1. GASES:

Kinetic theory of gases and gas laws, specific heat ratio C_p/C_v . Non-ideality of gas behaviour, Van der Waals equation of state, critical constants and their determination. Reference to some other equations of state e.g. Berthelot and Dieterici. Law of corresponding states. Maxwell Law of Distributions (Quantitative treatment).

2. THE FIRST LAW OF THERMODYNAMICS:

Thermodynamic terms and statement of the first law thermodynamic reversibility and maximum work, enthalpy of a system, heat capacity at constant volume and at constant pressure. Extensive and intensive properties, state functions and exact differentials, cyclic rule, integration factor. Variation of internal energy with temperature and volume; enthalpy as a function of temperature and pressure. Relation between C_p and C_v .

Joule-Thomson effect: Joule and Joule-Thomson effect, Joule-Thomson coefficient. Inversion temperature. Van der Waals equation and $J - T$ effect.

Important thermodynamic quantities (W, Q, E and H) in an isothermal expansion of an ideal gas and adiabatic expansion of an ideal gas. Calculations of various thermodynamic quantities for Van der Waals gases undergoing various operations under different conditions.

3. THERMOCHEMISTRY:

Heat of reaction, formation, combustion and neutralisation, solvation, dilution and hydration, Hess's law and its application, Bond energy and resonance energy.

4. CHEMICAL KINETICS:

Reaction rate, order and molecularity of reaction, zero, first, second and third order reactions. Methods for determining the order of a reaction. Complex reactions opposing reactions, consecutive reactions and side reactions with reference to first order reactions. Effect of temperature on reaction velocity. Energy of activation and collisions theory of bi-molecular gaseous reactions.

5. ELECTROCHEMISTRY:

Electrolytic conductance: equivalence conductance, molar conductance, variation of conductance with concentration, Kohlrausch's law of independent migration of ions, conductance ratio, effect of other factors on conductance. Qualitative treatment of the interionic attraction theory. Ionic mobilities, transport number, determination of transport number (Hittorf and moving boundary method), some application of conductance measurements. Hydrolysis of salts. Bronsted and Lewis acids and bases. pH and pKa, acid-base concept in non-aqueous media, Buffer solutions. Theory of acid-base indicators.

6. CHEMICAL EQUILIBRIUM :

Law of mass action and its application to homogeneous and heterogeneous equilibria, Le-Chatelier principle and its application to chemical equilibrium. Degree of dissociation and abnormal molecular weights.

**Syllabus for B.Sc. I
CHEMISTRY PRACTICAL**

Time : 6 Hours (1day)

(M.M. 50)

1. Analysis of inorganic mixture including insolubles and interfering radicals (four Radicals only).
2. Volumetric Analysis :
 - (i) Use of $K_2Cr_2O_7$ (Determination of Iron), and
 - (ii) Iodometry and iodimetry (Determination of Copper, dichromate, Permanganate and arsenious oxide.)
3. Detection of elements and functional groups in organic compounds – only two compounds (one element and one group).
4. Records and viva-voce.
Students shall be given three experiments each of two hours duration inorganic mixture of 12 marks, volumetric of 12 marks and two organic compounds of 16 marks) in the annual practical examination.

B.Sc. Part-I (Applied Sciences) CHEMISTRY – I

Total Lectures : 45

PERIODIC TABLE

Periodicity and periodic classification of elements including trans Lawrencium elements, General characteristics of transition elements, variable oxidation states, complex formation, color, magnetic and catalytic properties.

COORDINATION CHEMISTRY

Double salts and coordination compounds, Werner's theory, Sidgwick's effective atomic number, IUPAC system of nomenclature, Isomerism, Stereochemistry of transition metal complexes involving coordination numbers 4, 5, 6

CHEMICAL BOINDING: Valence bond theory, Heitler-London and Pauling-Slater theory and resonance, molecular orbital, LCAO method, bonding, non-bonding and anti-bonding molecular orbital's, molecular orbital energy level diagrams for homo and hetero nuclear diatomic molecules, electronic structure, bond order, bond length and bond strength.

SHAPES OF INORGANIC MOLECULES: Hybridization of valance shell atomic orbitals and directional nature of the covalent bond, Sidgwick-Pawell theory, valence shell electron pair repulsion theory, shapes of inorganic molecules and anions.

NON-IDEAL GAS BEHAVIOR: Van-der Waal's equation of state, critical constants and their determination, Maxwell's law of distribution of velocities.

THERMOCHEMISTRY: Hess's law of constant heat summation, Heat of reaction, formation, combustion, solvation, dilution and hydration, Kirchoff's equation.

CHEMICAL KINETICS: Reaction rate, order and molecularity of a reaction, study of first order reactions comprising opposing reactions, consecutive reactions and side reactions, Law of mass action and its application to homologous and heterogeneous equilibrium, Le Chatelier's principle, its application to chemical equilibrium.

ELECTROCHEMISTRY: Electrolytic conductance, variation of conductance with concentration, types of electrodes and their electrode potential, ionic mobilities, transport number, some application of e.m.f. measurements, determination of solubility products, pH dissociation constants of acids, hydrolysis constants, solubility of sparingly soluble salts.

B.Sc. I (Applied Sciences) **CHEMISTRY – II**

Total Lectures : 45

Bonding in carbon compounds-hybridization and shapes of molecular orbitals.

- (a) Factors affecting covalent bonds-inductive, electromeric and mesmeric (resonance) effects and hydrogen bonding.
- (b) Modern concepts of acids and bases, factors affecting strength of acids and bases, pH and buffers.
- (c) Homolytic and heterolytic bond fission – formation and stability of reactive intermediates (carbo-cations, carbanions and free radicals)

General concepts of types of reactions-substitution, addition and elimination.

Mechanism and following reactions:

Halogenation of alkanes, Nucleophilic substitution with reference to alkyl halides, hydration of alkynes, Nucleophilic addition of HCN to carbonyl compounds, electrophilic and free radical addition of HBr to alkenes, Markownikov's rule, aromatic electrophilic substitution reactions specially with reference to nitration and Friedel-Crafts reactions. Petroleum and petrochemicals petroleum refining, knocking, octane and octane numbers reforming, cracking petrochemicals, LPG, CNG. Aromatic hydrocarbons-benzene and its homologs, structure of benzene, aromaticity and Huckel rule. Organometallic compounds and some important synthetic application of Grignard reagents.

Oxidation and reduction of carbonyl compounds, Aldol condensation, Claisen-Schmidt reaction, Cannizzaro reaction, Perkin reaction, Benzoin condensation, Haloform reaction, Knoevenagel reaction and Michael addition (mechanism of above reaction not required)

Stereo isomerism – concept of asymmetry (chirality), chemical resolution of racemic mixtures, R & S nomenclature of optical isomers, E & Z nomenclature of geometrical isomers.

Spectroscopy – UV / visible and IR : origin, elementary idea of instruments used, simple application in structure determination of organic molecules, Woodward-Fieser rule for calculation of max of conjugated dienes.

Preparation and uses of aspirin, salol, saccharine and chloramine-T. DDT and Grammexane.

Polymers-mechanism of polymerization free radical and ionic, Synthetic polymers, polythene, PVC, Polyurethanes, Nylon and Terylene.

Syllabus for B.Sc. II from 2000 & onwards

FIRST PAPER INORGANIC CHEMISTRY

1. SHAPES OF MOLECULES (12)

Hybridization of orbitals and directional nature of covalent bond. Sidgwick – Powell theory. Valence Shell Electron Pair Repulsion (VSEPR) theory, shapes of inorganic molecules and anions such as BeCl_2 , BF_3 , InCl_5^{2-} , SiF_4 , NH_3 , H_2O , OF_2 , Cl_2O , ClO_2 , PCl_3 , PCl_5 , SF_4 , ClF_3 , ICl_3 , PPh_3 , BrF_5 , IF_7 , XeF_4 , XeF_6 , CO_3^{2-} , NO_3^- , PO_4^{3-} , ClO_4^- , SbF_4^- , SbF_5^{2-} , TeF_5^- , XeF_5^+ , I_3^- and I_3^+ related species.

2. p-BLOCK ELEMENTS (10)

Characteristic : Chemical reactivity of elements and group trends. Synthesis, properties and structure of their hydrides and halides. Application of redox potential diagrams with reference to N, P, S, Cl, Br and I.

3. p-BLOCK ELEMENTS (10)

Compounds : Allotropy of boron, carbon, phosphorus and sulphur. Peroxocompounds of B, C and S oxyacids of N, P, S and halogens interhalogens, pseudohalogens and polyhalides.

4. d-BLOCK ELEMENTS (10)

Transition elements: General characteristics, variable oxidation states, complex formation, colour, magnetic properties and catalytic properties. Comparative account of 3d, 4d and 5d, transition metals with respect to their atomic and ionic sizes, stability of oxidation states and magnetic properties.

5. COORDINATION CHEMISTRY (8)

Isomerism in coordination compounds (definitions and some typical examples). Stereochemistry of metal complexes involving coordination number 3 to 7.

6. EXTRACTION OF ELEMENTS (6)

Chemical principles involved in the extraction and isolation of the following elements B, F, Si, Ge, Cr, Ni.

7. INORGANIC COMPOUNDS – PREPARATION, PROPERTIES AND USES OF (12)

Boric acid, Borides, Diborane, Fibrous Alumina and Zirconia, Silanes, Ultrapure Si and Ge. Hydrazine, Hydroxylamine. Hydrazoic acid. Hyponitrous acid. Trialkyl and Triarylphosphates. Phosphate esters. Potassium hexacyanoferrate (II) and (III). Sodium hexanitritocobaltate (III).

8. INORGANIC COMPOUNDS – STRUCTURE AND BONDING OF (10)

Diborane, Borazine, Phosphazene, Dimeric aluminum chloride, Al_2Me_6 , $\text{Al}(\text{BH}_4)_3$, Hyponitrous acid Nickel carbonyl.

9. GRAVIMETRY (12)

Principles of gravimetric analysis, coprecipitation, post-precipitation and supersaturation, Numericals based on gravimetric analysis.

B.Sc. II (Effective from 2005-2006 ONWARDS)
PAPER – II (Organic Chemistry)

60 Hrs (2Hrs/Week)

1. ELECTROMAGNETIC SPECTRUM : ABSORPTION SPECTRA

10 Hrs

Ultraviolet (UV) absorption spectroscopy – absorption laws (Beer-Lambert's law), molar absorptivity, presentation and analysis of UV-spectra, types of electronic transitions, effect of conjugation Concept of chromophore and auxochrome. Bathochromic, hypsochromic, hyperchromic and hypochromic shifts. UV spectra of conjugated enes and enones.

Infrared (IR) absorption spectroscopy – molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR Spectrum fingerprint region; characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds.

2. ALCOHOLS

6 Hrs

Monohydric alcohols – Methods of formation by reduction of aldehydes, ketones, carboxylic acids and esters. Hydrogen bonding, Acidic nature, Reactions of alcohols.

Dihydric alcohols – Methods of formation, chemical reactions of vicinal glycols, oxidative cleavage [$\text{Pb}(\text{OAc})_4$ and HIO_4] and pinacol-pinacolone rearrangement.

Trihydric alcohols – Methods of formation, chemical reactions of glycerol.

3. PHENOLS

6 Hrs

Preparation of phenols, acidic character, Comparative acidic strengths of alcohols and phenols, resonance stabilization of phenoxide ion. Reactions of phenols – electrophilic aromatic substitution, acylation and carboxylation, Mechanisms of Fries rearrangement, Claisen rearrangement, Gatterman synthesis, Hauben – Hoesch reaction, Lederer – Manasse reaction and Reimer – Tiemann reaction.

4. ETHERS AND EPOXIDES

3 Hrs

Ethers – Williamson's synthesis, Reaction with HX.

Synthesis of epoxides, Acid and base-catalyzed ring opening of epoxides, orientation of epoxide ring opening, reaction of Grignard and organolithium reagents with epoxides.

5. ALDEHYDES AND KETONES

14 Hrs

Synthesis of aldehydes and ketones with particular reference to the synthesis of aldehydes from acid chlorides, synthesis of aldehydes and ketones using 1, 3 dithianes, synthesis of ketones from nitriles and from carboxylic acids.

Mechanism of nucleophilic additions to carbonyl group with particular emphasis on benzoin, aldol, Perkin and Knoevengel condensations. Condensation with ammonia and its derivatives.

Witting reaction, Mannich reaction.

Use of acetals as protecting group. Oxidation of aldehydes, Bayer – Villiger oxidation of ketones, Cannizzaro reaction, MPV, Clemmensen, Wolff – Kishner, LiAlH_4 and NaBH_4 reductions, Halogenation of enolizable ketones.

6. CARBOXYLIC ACIDS

6 Hrs

Acidity of carboxylic acids. Effects of substituents on acid strength. Preparation of carboxylic acids. Reactions of carboxylic acids. Hell- Volhard-Zelinsky reaction. Synthesis of acid chlorides, esters and amides. Reduction of carboxylic acids. mechanism of decarboxylation.

Methods of formation and chemical reactions of halo acids and hydroxyl acids.

7. CARBOXYLIC ACID DERIVATIVES

Relative reactivities of acyl derivatives. Interconversion of acid derivatives nucleophilic acyl substitution.

Preparation of carboxylic acid derivatives chemical reactions. Mechanisms of esterification and hydrolysis (acidic and basic).

8. ORGANIC COMPOUNDS OF NITROGEN

12 Hrs.

Preparation of nitro alkanes and nitroarenes. Chemical reactions of nitroalkanes. Mechanisms of nucleophilic substitution in of nitroarenes. Mechanisms of nucleophilic substitution in nitroarenes and their reductions in acidic neutral and alkaline media.

Separation of a mixture of primary secondary and tertiary amines. Structural features affecting basicity of amines. Amine salts as phase-transfer catalysts. Preparation of alkyl and aryl amines (reduction of nitro compounds, nitriles), reductive amination of aldehydic and ketonic compounds. Gabriel-phthalimide reaction, Hofmann bromamide reaction.

Reaction of amines, electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid. Synthetic transformations of aryl diazonium salts, azo coupling.

THIRD PAPER PHYSICAL CHEMISTRY

1. THERODYNAMICS

Spontaneous processes, Carnot cycle, statement of second law, concept of entropy, combined form of the first and second law of thermodynamics, enthalpy and entropy. Thermodynamic equation of state (energy as a function of V. and T, enthalpy as a function of T and P), entropy change in isolated system. Variation of entropy with temperature and volume, Variation entropy with temperature and pressure. Entropy change in chemical reaction. Helmholtz and Gibbs free energies, Properties of Gibbs function, Gibbs-Helmholtz equation Thermodynamic criteria of equilibrium Clapeyron-Clausius equation and its application.

2. PHASE EQUILIBRIA :

Explanation of phase, component and degree of freedom. Phase rule and its application to one component (water and sulphur) and two component (single eutectics) systems. Nernst distribution law, thermodynamic derivation of the distribution law. Limitations and applications of the distribution law.

3. ELECTROCHEMICAL CELLS :

Reversible and irreversible cell, EMF of a cell and free energy change Nernst equation. EMF and equilibrium constant. Types of single electrodes. Electrode potentials. Standard electrode potential concept of concentration cell without transference. Applications of EMF measurement (determination of solubility product. pH. dissociation constants of acids, hydrolysis constant, solubility of sparingly soluble salt).

4. SURFACE PHENOMENON :

Physical and chemical adsorption, Freundlich adsorption isotherm, Gibbs adsorption equation, Langmuir monomolecular theory and B.E.T. theory.

5. PHYSICAL PROPERTIES AND CHEMICAL CONSTITUTION:

Molar volume, Parachor Molar refraction and polarisation, Dipole moment, Debye equation (derivation not required) and Clausius-Mosotti equation.

6. COLLOIDAL STATE :

Stability of colloids, determination of size of colloidal particle, Electrokinetic Potential (Zeta potential). Donnan membrane theory and its applications.

CHEMISTRY PRACTICAL

Time : 6 Hrs (1day)

M.M. 50

1. Gravimetric Analysis

- (i) Barium as BaSO_4
- (ii) Iron as Fe_2O_3
- (iii) Zinc as ZnO
- (iv) Aluminum as Al_2O_3 and
- (v) Copper as CuO

10 Mark

2. Organic preparation (one step) and crystallisation:

- (i) Acetylation,
- (ii) Nitration
- (iii) Bromination
- (iv) Osazone formation
- (v) Picrate formation, and
- (vi) Azo-dye formation

15 Mark

3. Physical Chemistry experiments

- (i) Experiments of surface tension (using Stalrometer)

- (ii) Experiments on viscosity (using viscometer)
- (iii) Partition coefficient determination
- (iv) Determination of solubility (at different temperatures)
- (v) Molecular weight determination of a volatile substance (by Victor Meyer's method)

15 Marks

4. Records and viva –voce.

Students shall be given three experiments each of two hours duration (gravimetric of 10 marks, organic preparation of 15 marks, and physical experiment of 15 marks) in the annual practical examination comprising 10 marks of records and viva-voce.

Total M.M. : 50

Syllabus for B.Sc. III from 2001 & onwards

FIRST PAPER INORGANIC CHEMISTRY

1. THEORIES OF COVALENT BOND (12)

Valence bond theory-Heitler-London and Pauling-Slater theories and resonance, Molecular orbital theory-LCAO method, bonding, non-bonding and antibonding molecular orbitals. Molecular orbital energy level diagrams for homonuclear and heteronuclear diatomic molecules-electronic structure, bond order, bond length and bond energy.

2. THEORIES OF COORDINATE BOND (12)

Valence bond theory and its limitations. Crystal field theory-d-orbital splitting in octahedral and tetrahedral crystal fields. Ligand field splitting ($10Dq$) and factors affecting its magnitude, spectrochemical series. Crystal field stabilization energies (CFSE) for d^1 to d^{10} systems in octahedral and tetrahedral fields.

3. METALS AND METALLURGY (14)

Comparative study of the chemistry of d-block elements and their important compounds : Sc, Y, La, Ti, Zr, Hf, V, Nb, Ta, Cr, Mo, W, Mn, Tc, Re, Fe, Co, Ni and platinum metals (Application of reduction potential diagrams wherever necessary). Metallurgical extraction of Ti, V, Mo, W, and Re.

4. 4 f-BLOCK ELEMENTS (10)

Characteristics: Electronic structure, lanthanide contraction and its consequences, oxidation states, complex formation, magnetic and spectral properties and their differences from transition metals, ion exchange and solvent extraction methods of separation of lanthanides.

5. INORGANIC CHAINS, RINGS AND CAGES (8)

Silicates, Silicones, Borazines, Phosphazenes, S-N compounds and Boranes.

6. STRUCTURES AND CHARACTERISTICS OF SOLIDS (10)

Metallic, Ionic, Covalent and molecular crystals, Structures of Ionic solids, radius ratio rules, Structures of metals, close packed structures, Characteristics of Unit Cells.

7. CHEMICAL INDUSTRIES (8)

Glass, cement, artificial fertilizers, steel and Phosphorus sulphides.

8. ENVIRONMENTAL POLLUTION (8)

Air pollutants, their sources and toxic effects. Particulates, their sources and toxic effects. Acid rain and green house effects. Water pollutants.

9. METAL IONS IN BIOLOGICAL SYSTEMS (8)

Essential and trace elements. Chemistry of chlorophyll, haemoglobin, myoglobin, and cyanocobalamin.

SECOND PAPER ORGANIC CHEMISTRY

1. SPECTROSCOPY

15 Hrs.

Nuclear magnetic resonance (NMR) spectroscopy, nuclear shielding and deshielding, chemical shift and molecular structure, spin – spin splitting and coupling constants, area of signals, interpretation of PMR spectra of simple organic molecules such as ethylbromide, ethanol, acetaldehyde, 1, 1, 2-tribromoethane, ethyl acetate, toluene and acetophenone.

Problems pertaining to the structure elucidation of simple organic compounds using UV. IR and PMR spectroscopic techniques.

2. ORGANOMETALLIC COMPOUNDS

5 Hrs.

Organomagnesium compounds : the Grignard reagents – formation, structure and chemical reactions.

Organozinc compounds : formation and chemical reactions.

Organolithium compounds : formation and chemical reactions.

3. ORGANOSULPHUR COMPOUNDS

4 Hrs.

Methods of formation and chemical reactions of thiols, thioethers, sulphonic acids, sulphonamides and sulphaguanidine.

4. HETEROCYCLIC COMPOUNDS

8 Hrs.

Introduction : Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine, Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison of basicity of pyridine, piperidine and pyrrole.

Introduction to condensed five and six – membered heterocycles. Preparation and reactions of indole, quinoline and isoquinoline with special reference to Fisher indole synthesis, Skraup synthesis and Bishler-Napleralski synthesis. Mechanism of electrophilic substitution reactions of indole, quinoline and isoquinoline.

5. ORGANIC SYNTHESIS VIA ENOLATES

6 Hrs.

Acidity of α -hydrogens, alkylation of diethyl malonate and ethyl acetoacetate. Synthesis of ethyl acetoacetate : the Claisen condensation Keto – enol tautomerism of ethyl acetoacetate. Alkylation of 1, 3-dithianes, Alkylation and acylation of enamines.

6. CARBOHYDRATES

10 Hrs.

Classification and nomenclature. Monosaccharides, mechanism of osazone formation, interconversion of glucose and fructose, chain lengthening and chain shortening of aldoses. Configuration of monosaccharides. Erythro and threo diastereomers. Conversion of glucose into mannose, Formation of glycosides, ethers and esters, Determination of ring size of monosaccharides. Cyclic structure of D (+) – glucose, Mechanism of mutarotation.

Dissocharides - maltose, Sucrose and lactose, Structure determination.

7. AMINO ACIDS, PEPTIDES AND PROTEINS

6 Hrs.

Amino acids: acids – base behaviour, isoelectric point and electrophoresis, Preparation and reactions of α – amino acids. Peptide structure determination, and group analysis, selective hydrolysis of peptides. Solid – phase peptide synthesis.

8. SYNTHETIC POLYMERS

6 Hrs.

Addition or chain – growth polymerization Free radical vinyl polymerization ionic vinyl polymerization, Ziegler – Natta polymerization and vinyl polymers.

Condensation or step growth polymerization. Polyesters, Polyamides. Phenol formaldehyde resins, urea – formaldehyde resins and polyurethanes.
Natural and synthetic rubbers.

THIRD PAPER PHYSICAL CHEMISTRY

I. THERMODYNAMICS :

Thermodynamic derivation of the law of mass action. Reaction Isotherm and Van't Hoff equation (influence of temperature on equilibrium constant K) Thermodynamic derivation of phase rule. Partial molar quantities. Chemical potential, Gibbs-Duhem equation, Chemical potential, Gibbs-Duhem equation, Chemical potential and other thermodynamic functions. Effect of temperature of chemical potential. Effect of pressure on chemical potential. Chemical potential of real gases and fugacity of real gases. Colligative properties (thermodynamic treatment) : Lowering of vapour pressure osmotic pressure of boiling point and depression of freezing point.

II. CHEMICAL KINETICS AND CATALYSIS :

Steady state approximation Lindemann's theory of unimolecular reaction. Qualitative treatment of transition state theory of reaction rates. Primary salt effect in ionic reactions. Kinetics of homogeneous, acid – base and enzyme catalysis, heterogeneous catalysis, negative catalysis and inhibition. Effect of pH and temperature on enzyme catalysis. Effect of temperature on surface reaction promoters and poisons.

III. PHOTOCHEMISTRY :

Absorption of light, chain reaction, free radical chains (Rice-Herzfeld mechanism for the decomposition of ethane) Lambert's and Beer's law, Grotthug Draper law, Einstein's law of photochemical equivalence quantum efficiency, reasons for low and high quantum yields. Kinetics of some typical photochemical reactions (Decomposition of acetaldehyde, dimerisation of anthracene) Photo electric cell. Photosensitization.

IV. E.M.F. :

Concentration cells, with and without transference, liquid junction potential, fuel cells, chemical cells without transference.

V. ATOMIC STRUCTURE :

Bohr's theory, Sommerfeld's model, dual nature of electron de-Broglie's equation. Experimental verification of the wave nature of electron (Davison & Germer's experiment) Heisenberg's uncertainty principle. One dimensional Schrodinger's wave equation and physical significance of the wave function. Particle in a box (one dimension only).

VI. NUCLEAR CHEMISTRY

Radioactive decay and equilibrium. Nuclear reactions Q value, cross sections, types of reactions, Chemical effects of nuclear transformations, Natural and artificial radioactivity. theory of nuclear disintegration; disintegration and displacement laws: radioactive series. nuclear binding energy; nuclear reaction; fission and fusion products and fission yields ; radioactive isotopes and their uses. Radioactive techniques; tracer technique, neutron activation analysis, counting techniques such as G.M. ionisation and proportional counter.

CHEMISTRY PRACTICAL

Time : 6 Hours (1day)

M.M. : 75

1. Organic Chemistry experiments:

- (i) Identification of single organic solid compound.
- (ii) Estimation of reducing and non-reducing sugars.
- (iii) Paper chromatographic separation of amino acids and sugars (only binary mixtures)

(20 Marks)

2. Physical Chemistry experiments :

- (i) Hydrolysis of methyl acetate catalysed by an acid.

- (ii) Hydrolysis of ethyl acetate.
- (iii) Adsorption of acetic acid on charcoal.
- (iv) Heat of solution of a substance (oxalic acid) by solubility method.
- (v) Transition temperature of Glauber's salt by thermometric method.
- (vi) Heat of neutralization of NaOH and HCl.
- (vii) Molecular weight determination of a volatile substance by Duma's method.
- (viii) Relative strength of HCl and H₂SO₄ by catalysing the hydrolysis of methyl acetate.
- (ix) Acetone – iodine reaction catalysed by H⁺.

3. Inorganic analysis and preparations:

- (i) Paper chromatographic separation of metal ions – Cu²⁺, Pb²⁺, Zn²⁺, Cu²⁺, Ni²⁺, Cd²⁺, ions (binary mixtures only).
- (ii) EDTA titrations of Ca²⁺, Mg²⁺, Zn²⁺ and Cu²⁺
- (iii) Determination of hardness of water.
- (iv) Determination of CO₂ content in polluted water
- (v) Colorimetric determination of metal ions – Fe³⁺, Co²⁺, Ni²⁺ and Mn²⁺
- (vi) Preparation of simple inorganic complexes. (15 marks)

4. Records and viva-voce.

Students shall be given three experiments each of two hours duration (organic experiment of 20 marks, physical experiment of 25 marks, and inorganic experiment of 15 marks) in the annual practical examination comprising 15 marks of records and viva-voce.

PROPOSED SYLLABUS

For M.Sc. CHEMISTRY (Analytical)

(THEORY & PRACTICAL)

**CHOICE BASED CREDIT SYSTEM
(C.B.C.S)**

(2016 onwards)



**Department of Chemistry
Faculty of Science
University of Allahabad
Allahabad – 211002**

SEMESTER I - THEORY PAPER

CORE COURSE CODE: CHE 504 – ANALYTICAL CHEMISTRY

PAPER - IV

UNIT – I

Fundamentals of Chemical Analysis

Qualitative and Quantitative Analysis, Sensitivity and Selectivity of Analytical Methods, Sampling; Hydrogen ion exponent: Buffer solutions, Pseudo buffers, Standard Buffers: Problems based on acid-base, solubility and complex ion equilibria.

UNIT – II

Data Handling in Analytical Chemistry

Accuracy and Precision; Determinate and Indeterminate errors; Significant figures, Rounding off figures; Standard deviation; Propagation of errors. Regression analysis; Statistics of sampling and detection limit evaluation.

UNIT – III

Volumetric methods of analysis

Expressions of concentration of solutions: Molarity, Formality, Normality; Analytical and Equilibrium concentrations; Common Units for Expressing Trace Concentrations; Standard solutions; Volumetric calculations; Acid-base, redox, precipitation, complexometric and chelatometric titrations; Theory of Indicators – Mixed Indicators and Fluorescent Indicators.

UNIT – IV

Gravimetric Methods of Analysis

Weight relationships; Principles and scope of gravimetric methods; Conditions of Impurities in precipitates – Coprecipitation and post precipitation; Washing, filtering and drying of precipitates; Role of organic precipitants in gravimetric analysis, important organic precipitants: Dimethyl glyoxime, cupferron, 8-Hydroxyquinoline, salicyldoxime, 1-nitroso 2-naphthol, Anthranic acid, - benzoinoxime (Cupron), Sodium tetraphenylboron.

UNIT – V

Spot tests

Spot tests for metal ions –

Spot tests for identification of functional groups – hydroxy, carboxylic, nitro, nitroso, azo and amino.

Determination of elements and functional groups in organic compounds

Semimicro determination of carbon, hydrogen, sulphur and nitrogen.

SEMESTER – I PRACTICALS – LAB COURSE

ANALYTICAL CHEMISTRY (in addition to Core Course Code CHE 504)

LAB COURSE CODE CHE 536

Course Credit = 02

(40 hrs)

1. Determination of replaceable hydrogen in Acid by titration with sodium hydroxide
2. Determination of Bicarbonate
3. Determination of water hardness with EDTA
4. Determination of Silver by Volhard's method
5. Determination of Chloride by Fajan's method
6. Analysis of Commercial hypochlorite or peroxide solution by iodometric titration

SEMESTER II - THEORY PAPER

COURSE CODE: CHE 508 – ANALYTICAL CHEMISTRY

PAPER – IV

UNIT-I

Ionic Equilibria in Solution

Activity and activity coefficients, Equilibrium constants in analysis and Systematic Approach to Equilibrium calculations – Mass Balance Equations and Charge Balance Equations; Numerical problems based on ionic equilibria.

UNIT-II

Potentiometry

Potentiometric Electrodes: Metal Electrodes, Metal – Metal Electrodes, Metal-Metal Salt Electrodes for measuring the Salt's Anion, Redox Electrodes, Reference Electrodes, Potentiometric titrations, Potentiometers and pH meter, Glass pH Electrode and its applications; Alkaline Error and Acid Error.

UNIT-III

Conductometric Methods

Principle of Analysis; Measurement of Conductance; Analytical Applications of Conductometry; Conductometric Titrations; High Frequency Titrations

UNIT-IV

Coulometry and Electrodeposition Methods

Electrolysis at Constant Potential, Electrolysis at Constant Current, Coulometric Methods of Analysis, Applications of Coulometry, Coulometric titrations and their applications.

UNIT-V

Spectrochemical Methods and Quantitative Aspects of Spectrochemical Methods

Interaction of Electromagnetic Radiation with Matter – Electromagnetic Spectrum, Mode of Absorption of Radiation by Matter, Rotational transitions, Vibrational transitions, Electronic transitions; Absorption by Isolated chromophores, Absorption by conjugated chromophores, Absorption by Aromatic compounds, Absorption due to chelate formation and metal complex formation. Beer's law and its deviation and its applications, Mixture of absorbing species Spectrophotometric Instrumentation – Monochromators, Sample cells, Detectors, Types of Instruments-Single beam spectrophotometers and Double beam spectrophotometers, Spectrophotometric Error in Measurements.

SEMESTER – II PRACTICAL – LAB COURSE

ANALYTICAL CHEMISTRY (in addition to Core Course Code CHE 508)

LAB COURSE CODE AGR. CHE 540

Course Credit = 02

(40 hrs)

1. pH titration of unknown soda ash
2. Spectrophotometric determination of iron
3. Determination of nitrate in water by spectrophotometry
4. Spectrophotometric determination of manganese and chromium in mixture
5. Conductometric titration
6. Potentiometric titration

SEMESTER III - THEORY PAPER

(Specialization in Analytical Chemistry)

CORE COURSE CODE – CHE 518

Course Credit = 04

PAPER – I
(Theoretical Aspects)

UNIT-I

Statistical Methods in Analytical Chemistry

- (a) **Descriptive Statistics** : Distribution of random numbers, Gaussian distribution, other distributions, Central limiting theorem; Location parameters – Arithmetic, Geometric and Harmonic means, Median, Quartile; Confidence level and Confidence interval
- (b) **Statistical Test:** Testing hypothesis-comparison of a mean with a true value : one –variable test, comparison of two means: two variable t – test; comparison of variables F-test, Testing for distribution χ^2 - test Test for outliers – Dixon's -test
- (c) **Statistics of Sampling**

UNIT-II

Linear least Squares : Least Squares plot; standard deviations of the slope and intercept; Correlation coefficient and coefficient of determination

UNIT-III

Graphic presentation of equilibrium data : acid base, solubility and complex formation

UNIT-IV

Kinetic Methods of Analysis : Enzyme catalysis – Enzyme kinetics, properties of enzymes, Enzyme Inhibitors and Activators; The Michaelis constant Determination of enzymes and Example of Enzymatic Analysis.

UNIT-V

Concept of Speciation – Iodine Species (I , IO_3^- , I_3^- and I_2); Actinide Speciation in Aquatic Environment, Lead, Chromium

SEMESTER III - THEORY PAPER

CORE COURSE CODE – CHE 519

**Course Credit = 04
(40 Lectures)**

PAPER - II (Separation Techniques)

UNIT-I

Principles and applications of solvent extraction: quantitative treatments of extraction equilibria, solvent extraction of metals, analytical separation, multiple batch extraction, counter current distribution, synergistic extraction. Solid –phase extraction, Supramolecules in solvent extraction

UNIT-II

Ion exchange Resins – Mechanism of ion exchange, synthesis and characteristics of ion-exchange resins, Factors affecting the selectivity of ion exchange resin, Ion exchange capacity, Techniques in ion exchange methods and analytical applications.

UNIT-III

Ion Chromatography – Ion chromatography as a separation tool, Instrumentation in Ion chromatography; Analytical Applications of Ion chromatography

Adsorption chromatography:– Principle, Experimental Set up and use of Adsorption chromatography

UNIT-IV

Partition Chromatography- Principle of Liquid – Liquid partition chromatography
Reversed Phase Partition chromatography, Application of Extraction Chromatography, Paper, Thin Layer and Ion-pair chromatography

UNIT-V

Electrophoresis – Principles of Electrophoresis – Classification of Electrophoresis Methods, Techniques of Electrophoresis and Instrumentation, Applications in Inorganic Chemistry, Separation of Biological Products.

SEMESTER III - THEORY PAPER

CORE COURSE CODE – CHE 520

**Course Credit = 04
(40 Lectures)**

PAPER - III (Spectrochemical Methods)

UNIT-I

Turbidimetry and Nephelometry and their applications
Fluorometry – Principle of Fluorescence, Chemical Structures and Fluorescence, Relationship between concentration and Fluorescence Intensity, Fluorescence Instrumentation

UNIT-II

Flame Emission Spectroscopy : Principles of Flame Photometry, Instrumentation
Evaluation Methods in Flame Photometry

UNIT-III

Atomic Absorption Spectrophotometry (AAS) : Principles, Instrumentation, Interferences, Sample preparation, Applications of AAS, Sensitivity and Detection Limits in Analysis, Graphite Furnace in AAS

UNIT-IV

Inductively Coupled plasma Atomic Emission Spectroscopy : Limitation of Flame Emission spectroscopy, Principles of plasma spectroscopy, Inductively coupled Plasma Source, ICP-AES Instrumentation, Applications of Plasma Spectroscopy

UNIT-V

Principles of Infrared Spectrophotometry and Raman Spectroscopy, FT-IR and FT Raman Spectrometers, Applications of these techniques in Quantitative analysis.

SEMESTER III - PRACTICALS CHEMISTRY

LAB COURSE CODE-ANALYTICAL CHEM- 561

(In addition to CHEM CODE-526, 527 & 528)

**Course Credit = 04
(40 Lectures)**

1. Separation of Zn^{2+} + Mg^{2+} present in a sample using anion exchange resin and estimation of each metal ion thus separated by E.D.T.A. titration.
2. Separation of Co^{2+} + Ni^{2+} present in a sample using anion exchange resin and estimation of each metal ion thus separated by E.D.T.A. titration.
3. Determination of the pH of Hair shampoos.
4. Determination of the pk value of weak organic acid by pH titration.
5. U.V. Spectrophotometric determination of Aspirin, Phenacetin and Caffeine in APC tablets using solvent extraction Determination of Fe(III) by chloride extraction in ether
6. Separation of amino acids using paper chromatography
7. Electrophoresis
8. Flame emission photometric determination of sodium
9. Infrared determination of a mixture of Xylene isomers / APC tablet
10. Thin – Layer chromatography, Separation of Amino acids.
11. Water analysis

SEMESTER IV - THEORY PAPER

(Specialization in Analytical Chemistry)

PAPER -I

CORE COURSE CODE - CHE 530

**Course Credit = 04
(40 Lectures)**

Electroanalytical Methods

UNIT- I

Voltametry : The voltametric cell, the current voltage curve, the step wise reduction or oxidation supporting electrolyte chemicals modified electrodes.

UNIT- II

Polarography: The dropping mercury electrode, concepts of half wave potential, residual current, maxima, the Ilkovic equation, Ac polarography, Rapid scan Polarography, Square wave polarography, Inorganic and organic Polarography.

UNIT- III

Anodic stripping voltametry, cyclic voltametry squarewave polarography, chronopotentiometry.

UNIT- IV

Chemical Sensors classification, sensitivity and limit of detection, potentiometric sensors Ion selective Electrodes (ISEs), types of electrodes, selectivity and applications of ISEs., Gas sensors, voltametric sensors

UNIT- V

Biosensors – Definition, The enzyme electrode, biosensors based on Ion-Selective electrodes, amperometric enzyme electrodes, applications of enzyme electrodes; Biosensors based on plant and animal tissue.

SEMESTER IV - THEORY PAPER

PAPER –II

CORE COURSE CODE – CHE 531

**Course Credit = 04
(40 Lectures)**

Other Methods in Analytical Chemistry

UNIT- I

Thermal and calorimetric methods of Analysis : Thermogravimetric Analysis (TGA) – Principle, apparatus and applications; Differential Thermal analysis (DTA) – Principle and apparatus; Derivative thermogravimetry – principle and apparatus, Interpretation of TGA and DTA curves. Thermometric titrations; Differential scanning calorimetry (DSC) - Instrumentation and Applications

UNIT- II

X-ray Emission Spectrometry : X-ray processes, X-ray Fluorescence, X-ray fluorescence Spectrometer, Applications of X-ray emission spectrometry.

UNIT- III

Mass spectrometry : Principles, Basic idea of techniques and applications

Gas chromatography and High Performance Liquid Chromatography : Principle, Instrumentation and Applications.

UNIT- IV

Polarimetry and Related methods: Polarised Light, Applications of Polarimetry, Optical Rotatory Dispersion (ORD) and Circular Dichromism (CD), Instrumentation for ORD and CD.

UNIT- V

The role of computers and microprocessors in Analytical Chemistry- Instrument optimizations, Data recording and storage, Data processing and data analysis (Chemometry), The scope of microprocessor Control and computers in analytical laboratories.

SEMESTER IV - THEORY PAPER

PAPER –III

CORE COURSE CODE – CHE 532

**Course Credit = 04
(40 Lectures)**

UNIT- I

Miscellaneous Analysis

Determination of moisture by Karl Fischer's method and active hydrogen by Zerwintinoff's method

UNIT- II

Gas Analysis – Volumetric methods of analysis of gases, determination to H_2O_2 (?), determination of available chlorine in bleaching powder.

UNIT- III

Analysis of oils and fats.
Acquaintance with commercial analysis of food materials like milk, butter, tea, sugar and vitamins.

UNIT- IV

Micro and Semi-micro determinations of functional groups like amino, nitro, azo, carbonyl, unsaturation, acetylenic hydrogen, sulphonic acid, sulphide, sulphamide and peroxides

UNIT- V

Micro and semi-micro determination of oxygen, phosphorus, arsenic and halogens (including fluorine in organic compounds).

SEMESTER IV - CHEMISTRY PRACTICALS

LAB COURSE CODE ANALYTICAL CHE 548

(in addition to CHE 530, 531 & 532)

1. Determination of calcium by Atomic Absorption spectrophotometry
2. Gas chromatographic analysis of a tertiary mixture
3. Enzymatic Determination of glucose
4. Determination of Cd^{2+} ion using polarography
5. Determination of Zn^{2+} ion using polarography
6. TGA
7. Least Square fitting
8. Composition of two sets of results of significance by
 - (i) student's t-test
 - (ii) F-test

Project Experiment

PROPOSED SYLLABUS

For M.Sc. CHEMISTRY (Inorganic)

(THEORY & PRACTICAL)

**CHOICE BASED CREDIT SYSTEM
(C.B.C.S)**

(2016 onwards)



**Department of Chemistry
Faculty of Science
University of Allahabad
Allahabad – 211002**

SEMESTER I - THEORY PAPER

CORE COURSE CODE - CHE 501 – INORGANIC CHEMISTRY

PAPER – I
Course Credit = 04
(40 Lectures)

UNIT – I

Metal – Ligand Bonding in Transition Metal Complexes

Crystal field splitting diagrams in complexes and Jahn-teller distortion.

UNIT - II

Molecular orbital theory and its applications to metal complexes.

UNIT - III

Molecular Symmetry and Character Tables

Symmetry elements and symmetry operations, symmetry groups, Defining properties of a group, character tables and its application.

UNIT - IV

Symmetry in inorganic molecules, Symmetry consideration in simple inorganic and coordination compounds.

UNIT - V

Molecular Luminescence

Principles of fluorescence and phosphorescence, Photoluminescence spectra of transition metal (d^{10}) and lanthanides complexes.

SEMESTER – I PRACTICALS – LAB COURSE

INORGANIC CHEMISTRY (in addition to Core Course Code CHE 501)

Qualitative Analysis

Qualitative mixture analysis for seven radicals including two rare elements. (Mo, W, Ti, Zr, Th, Ce, V) in cationic and anionic forms.

Quantitative separation and determination of the following pairs of metal ions using gravimetric and volumetric methods

- (i) Ni^{2+} (gravimetrically) and Cu^{2+} (Volumetrically)
- (ii) Ba^{2+} (gravimetrically) and Cu^{2+} (Volumetrically)
- (iii) Fe^{3+} (gravimetrically) and Ca^{2+} (Volumetrically)
- (iv) Mg^{2+} (gravimetrically) and Ca^{2+} (Volumetrically)

SEMESTER II - THEORY PAPER

CORE COURSE CODE - CHE 505 – INORGANIC CHEMISTRY

PAPER – I
Course Credit = 04
(40 Lectures)

UNIT-I

Reaction Mechanism of Transition Metal Complexes

Inert and labile complexes, Mechanism of octahedral substitution, acid hydrolysis, factors affecting acid hydrolysis, base hydrolysis, conjugate base mechanism, direct indirect evidence in favor of conjugate mechanism.

UNIT-II

Anation reactions, reactions without metal ligand bond cleavage, Substitution reactions in square planer complexes, the trans effect, mechanism of the substitution reaction.

UNIT-III

Redox reactions, electron transfer reactions, mechanism of one electron transfer reactions, outer-sphere type reactions, cross reactions and Marcus-Hush theory, inner sphere type reactions.

UNIT-IV

Term Symbols and Basic Principles of Electronic Spectroscopy

Frank – Condon principle, spin and Laporte selection rules, band intensities, band-width. Number of microstates and term symbols for gaseous atoms/ions. Spin-orbit coupling in spectroscopic ground state of p^2 and d^2 configurations and energies of J levels.

UNIT-V

Electronic Spectra of Transition Metal Complexes

Interpretation of electronic spectra using, Orgel and Tanabe – Sugano diagram for 3d transition metal complexes. Calculations of crystal field and ligand field parameters (Dq , B and β parameters), nephelauxetic series and charge transfer spectra.

SEMESTER – II PRACTICAL – LAB COURSE

INORGANIC CHEMISTRY (in addition to Core Course Code CHE 505)

LAB COURSE CODE CHE 537

Course Credit = 02

(40 hrs)

Preparation of Coordination Complexes and their Characterization by m.p, elemental Analysis and molar conductivity measurements.

- (a) $\text{VO}(\text{acac})_2$
- (b) $\text{K}_3[\text{Cr}(\text{C}_2\text{O}_4)_3] \cdot 3\text{H}_2\text{O}$
- (c) $\text{Na}[\text{Cr}(\text{NH}_3)_2(\text{SCN})_4]$
- (d) $\text{Mn}(\text{acac})_3$
- (e) $\text{K}_3[\text{Fe}(\text{C}_2\text{O}_4)_3]$
- (f) $\text{Hg}[\text{Co}(\text{SCN})_4]$
- (g) $[\text{Co}(\text{Py})_2\text{Cl}_2]$
- (h) $[\text{Ni}(\text{NH})_6]\text{Cl}_2$

Study of recorded UV-visible and IR of above prepared coordination compounds.

SEMESTER III - THEORY PAPER

(Specialization in Inorganic Chemistry)

CORE COURSE CODE - CHE 509

Course Credit = 04
(40 Lectures)

PAPER – I

Bioinorganic Chemistry

(40 Lectures)

UNIT-I

Role of Metal Ions in Biological Systems

Photosystems; nitrogen fixation, Na^+ / K^+ pump.

UNIT-II

Complexes of Biological Significance

Metal complexes of porphyrins and phthalocyanin, Vitamin B₁₂ and B₆; chlorophylls.

UNIT-III

Metallo Proteins

Function, Electronic structure, bonding and stereochemistry of the active site –

(1) Natural oxygen carrying proteins – Haemoglobin, Myoglobin, Hemerythrins and Hemocyanin

(2) Electron Transport Protein – (a) Iron – sulfur Proteins – Rubredoxin and Ferredoxins (b) Cytochromes (types a, b and c)

UNIT-IV

Metallo enzymes –

Mo-containing Enzymes – Nitrogenase; Xanthine Oxidase, sulphite, Oxidase and Nitrate reductase (b) Iron-containing Enzymes – cytochrome – c- oxidase, catalases, Peroxidases, cytochrome-p-450

UNIT-V

Copper – containing Enzymes – Superoxide dismutase (SOD), Bovine Superoxide dismutase (BOD), ascorbic acid oxidase and (b) Zinc –

containing Enzymes carboxy – peptidase A and B; carbonic anhydrase and Urease.

SEMESTER III - THEORY PAPER

CORE COURSE CODE - CHE 510

**Course Credit = 04
(40 Lectures)**

PAPER – II

Organometallic Chemistry

UNIT-I

Classification of organometallic compounds based on hapticity and polarity of M-C bond; Nomenclature and general characteristics.

UNIT-II

Complexes of π -Donor σ -donor Organic Ligands

Transition metal alkenyls, alkynyls, carbenes and carbenes.
Preparation, bonding and structure of alkene, alkyne, allyl, diene and arene complexes, important reactions with special reference to nucleophilic and electrophilic attack on ligands and to organic synthesis.

UNIT-III

Transition Metal Compounds in Homogeneous Catalysis and compounds with M-H bond

Hydrogenation, hydroformylation and Zeigler-Natta polymerization of olefins.

UNIT-IV

Wacker Process, hydrocarbonylation of olefins, oxopalladation reactions, activation of C-H bond. Metal hydrides (classical and non-classical).

UNIT-V

Fluxional Organometallic Compounds

Fluxional alloy and dynamic equilibria in compounds such as η^2 – olefins and η^3 – allyl and diene complexes.

SEMESTER III - THEORY PAPER

CORE COURSE CODE - CHE 511

**Course Credit = 04
(40 Lectures)**

PAPER – III

Coordination Polymers, Cages, Clusters and Nanostructures

UNIT-I

Coordination Polymers

Classification, types of metal-organic frameworks (MOFs), Synthetic strategies, characterization, properties and applications.

UNIT-II

Metal Carbonyls and related Compounds

Preparation structure and properties; bonding in metal carbonyls, variants of CO bridging vibrational spectra of metal carbonyls, principle reaction types of metal carbonyls, metal nitrosyl.

UNIT-III

Polyhedral Boranes

Higher boranes, carboranes, metallo-boranes and metallo-carboranes – Structure and bonding in the light of Wade's and Jemmis' Rules.

UNIT-IV

Synthesis and applications of nanoparticles

Introduction of Nano Particles; its different methods for preparation; its applications to chemistry.

UNIT-V

Alkoxides Properties; structural aspects of various types of alkoxides – Industrial applications and catalytic aspects of metal alkoxides.

SEMESTER III - PRACTICALS CHEMISTRY

LAB COURSE CODE-INORGANIC CHE- 541

**Course Credit = 04
(40 Lectures)**

(In addition to CHE CODE- 509, 510 & 511)

Separation of a Mixture of Cations/Anions by Paper Chromatographic Technique Using Aqueous/Non-aqueous Media:

- a. Pb^{2+} and Ag^+ (aqueous and non-aqueous media)
- b. Co^{2+} and Cu^{2+} (non aqueous media)
- c. Cl^- and I^- (aqueous – acetone media)
- d. Br^- and I^- (aqueous – acetone media)

Ion-exchange Method of Separation

- e. Separation of Zn^{2+} and Mg^{2+} on an anion exchanger
- f. Separation of Co^{2+} and Ni^{2+} on an anion exchanger

SEMESTER IV - THEORY PAPER

(Specialization in Inorganic Chemistry)

PAPER – I

CORE COURSE CODE - CHE 521

**Course Credit = 04
(40 Lectures)**

Structural Methods in Inorganic Chemistry

UNIT- I

NMR Spectroscopy (i) : Use of Chemical shifts and spin-spin couplings for structural determination; Double resonance, and Dynamic processes in NMR; Decoupling phenomenon, Nuclear Overhauser Effect, DEPT spectra and structural applications in ^{13}C NMR; Use of Chemicals as NMR auxiliary reagents (shift reagents and relaxation reagents); ^1H NMR of paramagnetic substances.

UNIT- II

Nuclear Spectroscopy – (ii) Multinuclear NMR of Metal nuclei. ^{31}P , ^9F , ^{27}Al , ^{11}B , ^{119}Sn , $^{203/205}\text{Tl}$, ^{51}V etc.

UNIT- III

Electron Spin Resonance Spectroscopy: Basic principle, Hyperfine Splitting (isotropic systems); the g value and the factors affecting thereof; interactions affecting electron energies in paramagnetic complexes (Zero-field splitting and Kramer's degeneracy); Electron-electron interactions, Anisotropic effects (the g value and the hyperfine couplings); Structural applications of transition metal complexes.

UNIT- IV

Infrared and Raman Spectroscopy: Basic Principle, Fundamental modes, Factors affecting vibrational frequency, Applications of vibrational spectroscopy in investigating (i) symmetry and shapes of simple AB₂, AB₃ and AB₄ molecules on the basis of spectral data, (ii) mode of bonding of ambidentate ligands (thiocyanate, nitrate, sulphate and ureas).

UNIT- V

Mass Spectrometry: Basic Principle, Fragmentation pattern and Fingerprint applications in the interpretation of Mass spectra, effect of isotopes on the appearance of mass spectrum, recognition of the molecular ion peak; Ionization techniques (ESI, TOF and FAB)

SEMESTER IV - THEORY PAPER

PAPER – II

CORE COURSE CODE - CHE 522

**Course Credit = 04
(40 Lectures)**

Structural Methods in Inorganic Chemistry

UNIT- I

Magnetic Properties

Magnetic behaviours, recent methods of magnetic susceptibility measurements, anomalous magnetic properties of transition metal complexes, spin crossover phenomena, magnetic properties of binuclear metal complexes involving metal-metal exchange interaction (Bleaney-Bower equation).

UNIT- II

X-ray Photo electron Spectroscopy and Related Techniques

Basic principles, spectral features and their applications to structural determination of inorganic molecules and metal complexes: X-ray Photoelectron Spectroscopy (XPS), Auger Electron Spectroscopy (AES).

UNIT- III

X-Ray Spectroscopy : X-ray Absorption Fine Structure Spectroscopy (EXAFS and XANES) with synchrotron radiations techniques and X-ray fluorescence (XRF).

UNIT- IV

UV Visible Spectroscopy

Theory and its applications to metal complexes

UNIT- V

Mossbauer Spectroscopy

Basic principle, conditions for Mossbauer spectroscopy, spectral parameters (Isomer shift, electric quadrupole interactions, magnetic interactions), temperature dependent effects, structural deductions for iron and tin – complexes, miscellaneous applications.
Nuclear Quadrupole Resonance (NQR) – Theory and its applications.

SEMESTER IV - THEORY PAPER

PAPER – III

CORE COURSE CODE - CHE 523

**Course Credit = 04
(40 Lectures)**

Selected Topics in Inorganic Chemistry

UNIT- I

(i) Electron Microscopy

SEM (Scanning electron microscopy), and TEM (Transmission electron microscopy).

UNIT- II

(ii) Electron Microscope AFM (Atomic force microscopy) STM (Surface tunneling microscopy).

UNIT- III

Photochemistry of Transition Metal complexes

Photoreactions of inorganic complexes.

UNIT- IV

Electrochemical Methods

Cyclic voltammetry.

UNIT- V

Differential pulse voltammetry, anodic stripping voltammetry, chronoamperometry, coulometry.

SEMESTER IV - CHEMISTRY PRACTICALS

LAB COURSE CODE INORGANIC CHE 545

(in addition to CHE 521, 522 & 523)

Course Credit = 02

(40 hrs)

1. Spectroscopic Determinations

- (a) Mn/Cr/V in steel Sample.
- (b) Ni/Mo/W/V/U/ by extractive spectrophotometric method.
- (c) Fluoride/ nitrite / Phosphate.
- (d) Iron – phenanthroline complex: Job's method.
- (e) Zirconium – Alizarin Red-S complexes: Mole-ratio method.
- (f) Copper-Ethylene diamine complexes: Slope-ratio method.
- (g) Iron-thiocyanate complex-Ionophoric method

2. Atomic Absorption Spectroscopy

- (a) Estimation of metal ions.

3. Project Work

PROPOSED SYLLABUS

For M.Sc. CHEMISTRY (Organic)

(THEORY & PRACTICAL)

**CHOICE BASED CREDIT SYSTEM
(C.B.C.S)**

(2019 onwards)



**Department of Chemistry
Faculty of Science
University of Allahabad
Allahabad – 211002**

SEMESTER I - THEORY PAPER

CORE COURSE CODE: CHE 502 – ORGANIC CHEMISTRY

PAPER – II

Course Credit = 04
(40 Lectures)

UNIT – I

Aromaticity and π -Molecular Orbitals of Conjugated Systems

Aromaticity in benzenoid, non-benzenoid compounds and metallocenes, Huckels rule, energy of π -molecular orbitals, annulenes, anti-aromaticity, homo-aromaticity.

Reaction Mechanism: Structure and Reactivity

Hammond's postulate, Curtin-Hammett principle. Potential energy diagrams, transition states and intermediates, methods of determining mechanisms, isotope effects, Product analysis, Kinetic and stereochemical studies.

UNIT – II

Stereochemistry

Elements of symmetry, chirality, molecules with more than one chiral centre, threo and erythro isomers, optical purity, enantiotopic and diastereotopic atoms, group and faces, stereospecific and stereoselective synthesis. Optical activity in the absence of chiral carbon (biphenyls allenes and spiranes), chirality due to helical shape, R/S Nomenclature, chiral centres and chiral molecules.

UNIT – III

Conformational Analysis

Factors responsible for the stability of conformation, Torsional strain, steric strain, Dipole-dipole interaction, Hydrogen bonding, angle strain, hyperconjugation, and anomeric effect. Conformation of $\text{CH}_2\text{OH}-\text{CH}_2\text{OH}$, 2-chloroethanol, haloalkanes, 1,2-difluoroethane, conformation of cyclohexanone- $A^{1,2}$ strain, cyclohexene and Confirmation of alkylidenecyclohexane- $A^{1,3}$ strain. Conformational analysis of cycloalkanes- disubstituted cyclohexanes, decalins. Effect of conformation on reactivity.

UNIT – IV

Aliphatic Nucleophilic Substitution

The $\text{S}_{\text{N}}2$, $\text{S}_{\text{N}}1$, mixed $\text{S}_{\text{N}}1^1$, $\text{S}_{\text{N}}2^1$, $\text{S}_{\text{N}}i$ and SET mechanisms,

The neighboring group mechanism, neighboring group participation by P and S bonds, anchimeric assistance.

Nucleophilic substitution at an allylic, aliphatic trigonal and vinylic carbon Reactivity effects of substrate structure, attacking nucleophile, leaving group and reaction medium, phase transfer catalysis, ambident nucleophile and regioselectivity.

UNIT – V

Reaction intermediate

Generation, structure, stability and reactivity of nucleophilic carbenes, carbanion (enolate ion), non-classical carbocations, phenonium ions, norbornyl system, common carbocation rearrangement

Aromatic Nucleophilic Substitution The S_NAr , S_NI benzyne and $S_{RN}I$ mechanisms, Reactivity-effect of substrate structure, leaving group and attacking nucleophile. The von Richter, Sommelet-Hauser and Smiles rearrangements.

SEMESTER – I PRACTICALS – LAB COURSE

ORGANIC CHEMISTRY (in addition to Core Course Code CHE 502)

LAB COURSE CODE CHE 534

Course Credit = 02

(40 hrs)

- (a) Separation and identification of organic compounds using chemical methods from binary mixtures.
- (b) Estimation of glucose, aldehydes and ketones by chemical and spectroscopic methods.

SEMESTER II - THEORY PAPER

CORE COURSE CODE: CHE 506 – ORGANIC CHEMISTRY

PAPER – II

Course Credit = 04
(40 Lectures)

UNIT-I

Free Radical Reactions

Allylic halogenation (NBS), oxidation of aldehydes to carboxylic acids, auto-oxidation, coupling of alkynes, Free radical rearrangement, Hunsdiecker reaction.

Addition to Carbon-Carbon Multiple Bonds

Mechanistic and stereochemical aspect of addition reaction involving electrophiles, nucleophiles and free radicals, regio and chemoselectivity, orientation and reactivity. Addition to cyclopropane ring. Hydroboration, Michael reaction, Sharpless asymmetric epoxidation, Stereochemistry of epoxidation and halo-lactonisation.

UNIT-II

Addition to Carbon-Hetero Atom Multiple Bonds

Generation of enolate ions and their synthetic applications. Stereochemistry of Wittig reaction and Aldol condensation. Stobbe condensation reactions. Hydrolysis of esters.

Elimination Reactions

The E₂, E₁ and E_{1cB} mechanisms and their stereochemistry and orientation. Reactivity-effects of substrates, attacking base, the leaving group and the medium.

Mechanism and orientation in pyrolytic elimination and Peterson elimination.

UNIT-III

Pericyclic Reactions

Molecular orbital symmetry, Frontier orbitals of ethylene, 1, 3-butadiene, 1,3,5-hexatriene and allyl system, Classification of pericyclic reactions, Woodward-Hoffmann correlation diagrams, FMO and PMO approach, Electrocyclic reactions-conrotatory and disrotatory motions, 4n, 4n+2 and allyl systems.

UNIT-IV

Cycloadditions-antafacial and suprafacial additions, 4n and 4n+2 systems, 2+2 addition of ketenes, 1,3-dipolar cycloadditions and cheleotropic reactions.

UNIT-V

Sigmatropic rearrangement

Suprafacial and antarafacial shift of H, sigmatropic shifts involving carbon moieties, retention and inversion of configuration, (3,3) and (5,5) sigmatropic rearrangements, detailed treatment of Claisen and Cope-rearrangements. Fluxional tautomerism, Aza-

Cope rearrangements. Introduction to Ene reactions. Simple problems on pericyclic reactions.

SEMESTER – II PRACTICAL – LAB COURSE

ORGANIC CHEMISTRY (in addition to Core Course Code – 506)

LAB COURSE CODE CHE 538

**Course Credit = 02
(40 hrs)**

- (a) Preparation of various organic compounds involving two or three steps employing different reactions viz. Aldol Condensation, reactions of enolate ions, oxidation reactions, Cannizzarro reaction, Molecular rearrangement reactions etc. with a view to give the student sufficient synthetic training in synthetic organic chemistry
- (b) Isolation of :
 - a. Caffeine from tea leaves
 - b. Eugenol from cloves

SEMESTER III - THEORY PAPER

(Specialization in Organic Chemistry)

CORE COURSE CODE - CHE 512

Course Credit = 04
(40 Lectures)

PAPER – I

Rearrangements and Photochemistry

UNIT-I

Molecular Rearrangements

Migration to electron deficient carbon atom

Pinacole-Pinacolone rearrangement, Wagner-Meerwein rearrangement, Tiffeneau-Demjanov ring expansion, Dienone-Phenol rearrangement, Benzil Benzilic acid rearrangement, Favorski rearrangement.

UNIT-II

Migration to electron deficient nitrogen atom

Wolf, Hofmann, Curtius, Losen, Schmidt, Beckmann rearrangement.

Migration to electron deficient oxygen atom

Baeyer-Villiger rearrangement.

UNIT-III

Photochemistry of Carbonyl Compounds:

Photochemistry of enones, hydrogen abstraction.

UNIT-IV

Rearrangements of α, β - unsaturated ketones and cyclohexadienones, photochemistry of p-benzoquinones.

UNIT-V

Photochemistry of unsaturated system

Olefins, cis-trans isomerisation, dimerisation, hydrogen abstraction and additions. Acetylenes-dimerisation, Dienes-photochemistry of 1, 3-butadiene (2+2) additions leading to cage structures, photochemistry of cyclohexadienes, Photochemistry of aromatic compounds-excited state of benzene and its 1,2 and 1, 3-shifts, Photo-Fries rearrangement, Photo-Fries reaction of anilides,

photosubstitution reaction of benzene derivatives, Photolysis of nitride esters and Barton reaction.

SEMESTER III - THEORY PAPER

CORE COURSE CODE - CHE 513

**Course Credit = 04
(40 Lectures)**

PAPER - II

Oxidation, Reduction and Organometallic Reagents

UNIT-I

Oxidation

Hydrocarbons-alkenes, aromatic, rings, saturated, C-H groups (activated and un-activated), alcohols, diols.

UNIT- II

Aldehydes, ketones and carboxylic acids, amines, hydrazines and sulphides.
Oxidations with ruthenium tetroxide, iodobenzene diacetate and thallium (III) nitrate.

UNIT-III

Reduction

Hydrocarbons –alkenes, alkynes and aromatic rings.

Carbonyl Compounds : aldehydes, ketones, acids and their derivatives.

Epoxides

Hydrogenolysis

UNIT-IV

Organometallic Reagents

Synthetic applications of organometallic compounds with mechanistic details of following metals.

Hg, Cd, Ce, Cu, Ni, Fe, Co, Rh, Cr and Ti

UNIT- V

Application of Pd(0) and Pd(II) complexes in organic synthesis – Stille, Suzuki and Sonogashira coupling, Heck reaction and Negishi coupling.

SEMESTER III - THEORY PAPER

CORE COURSE CODE - CHE 514

Course Credit = 04
(40 Lectures)

PAPER – III

Strategies in Organic Synthesis

UNIT-I

Disconnection Approach

General introduction to synthons and Synthetic equivalents, Disconnections, (C-C, C-S, C-O, bonds).

UNIT-II

Functional group interconversion, chemoselectivity, cyclisation reaction choosing synthetic route for small and large scale synthesis.

UNIT-III

Protecting Groups

Principle of protection of alcoholic, amino, carbonyl and carboxylic groups.

UNIT-IV

Stereochemistry in Organic Synthesis

Stereoselectivity and stereospecificity. Regioselectivity and regiospecificity: Asymmetric synthesis- Sharpless asymmetric epoxidation.

UNIT-V

Synthetic Strategies:

- (i) For formation of carbon-carbon bond.
- (ii) For formation of carbon-nitrogen bond.
- (iii) For formation of carbon-halogen bond.
- (iv) For Ring Synthesis
- (v) For Multistep Synthesis

SEMESTER III - PRACTICAL CHEMISTRY

LAB COURSE CODE-ORGANIC CHE- 542

(In addition to CHE CODE - 512, 513 & 514)

**Course Credit = 02
(40 hrs)**

- (a) Separation and identification of organic compounds using chemical methods from organic mixtures containing up to three components
- (b) Preparation of organic compounds involving several stages
- (c) Verification of Lambert Beer's Law using bromocresol green reagent.
- (d) Estimation of carbohydrates, protein, amino acids, ascorbic acid, blood cholesterol and aspirin in APC tablets by UV-Visible spectrophotometric method.

SEMESTER IV - THEORY PAPER
(Specialization in Organic Chemistry)

CORE COURSE CODE – CHE 524

PAPER – I

Biosynthesis and Chemistry of Natural Products

Course Credit = 04
(40 Lectures)

UNIT- I

Bio-synthesis of Natural Products

- (a) The acetate hypothesis, poly-β-ketoacids, Biosynthesis, Biogenesis Primary and Secondary reactions involved in biosynthesis. Biosynthesis of poly-β-ketoacid
- (b) Isoprene rule, mevalonic acid from acetyl Co-enzyme A. Biosynthesis of mono, sesqui, di and triterpenes.
- (c) Shikimic acid pathway for biosynthesis of aromatic ring.
- (d) General biosynthesis of alkaloids.

UNIT- II

Terpenoids and Carotenoids

Classification, isoprene rule. Structure determination, stereochemistry, synthesis of the following representative molecules: citral, terpenol, farnesol, santonin, abietic acid and β-carotene, menthol. For structure elucidation emphasis is to be placed on the use of spectral data wherever possible.

UNIT- III

Alkaloids

General methods of structure elucidation, degradation, classification based on nitrogen heterocyclic ring, Structure, stereochemistry and synthesis of the following : Ephedrine, (+) nicotine, quinine and morphine. For structure elucidation emphasis is to be placed on the use of spectral data wherever possible.

UNIT- IV

Steroids

Basic skeleton Diel's hydrocarbon and stereochemistry, structure determination and synthesis of cholesterol, testosterone, estrone and progesterone. For structure elucidation emphasis is to be placed on the use of spectral data wherever possible.

UNIT- V

Prostaglandins

Occurrence, nomenclature, classification. Synthesis of PGE₂ and PGF_{2a}

Plant Pigments

General methods of structure determination, synthesis of Apigenin, Quercetin Cyanidin Hirsutin. Quercetin-3 glucoside, Diazein and cyanidine-7 glucoside. For structure elucidation emphasis is to be placed on the use of spectral data wherever possible.

SEMESTER IV - THEORY PAPER

PAPER –II

CORE COURSE CODE – CHE 525

Course Credit = 04

UNIT- I

- i. Diastereoselective, - facial addition of nucleophilic to chiral carbonyl compounds: Crams model and Felkin-Ann model
- ii. Stereoselective synthesis, Asymmetric synthesis: the principle of asymmetric synthesis. Achiral substrate modified by chiral auxiliary Prelog's rule

UNIT- II

Asymmetric synthesis by the use of

- i. Chiral substrate having prochiral unit
- ii. Chiral auxiliary
- iii. Chiral reagents

UNIT- III

Stereochemistry of some reaction

- i. Mc-Murry reaction.
- ii. Corey-Winter reaction.
- iii. Fragmentation reaction.
- iv. Wittig and related reaction.
- v. Julia olefination.

UNIT- IV

Stereochemistry of some reaction

- i. Conjugate addition with R₂CuLi
- ii. Mitsunobu reaction.
- iii. Stereochemistry of Pd catalyzed coupling reaction
- iv. Addition of Bromine and Peroxide on Cyclohexene.

UNIT- V

Vitamins : Structure determination including synthesis of
Thiamine (Vitamin B1)
Pyridoxine (Vitamin B6)
Biotin (Vitamin H)
Vitamin E

SEMESTER IV - THEORY PAPER

PAPER -III

Course Credit = 04
(40 Lectures)

CORE COURSE CODE - CHE 526

Biomolecules

UNIT- I

Enzymes

Introduction and historical perspective, chemical and biological catalysis, remarkable properties of enzymes like catalytic power, specificity and regulation. Fisher's lock and key and Koshland's induced fit hypothesis, concept and identification of active site by the use of inhibitors, affinity labeling and enzyme modification by site-directed mutagenesis. Enzyme kinetic, Michaelis-Menten and Lineweaver-Burk plots, reversible and irreversible inhibition, regulatory enzymes, Enzyme immobilization.

UNIT- II

Nucleic Acids

Secondary and Tertiary structure of DNA/RNA and stabilizing forces, polymorphic nature of DNA, Sequencing, solid phase synthesis; trimer, phosphoramidite and phosphonate methods, Purification : HPLC and gel electrophoresis. Peptide nucleic acid (PNA).

UNIT- III

Lipids

Chemistry and synthesis of phospholipids and glycolipids of lipid aggregates, micelles, bi-layers and biological membrane

UNIT- IV

Antibiotics

Synthesis of penicillin G, chloramphenicol, cephalosporin, tetracycline and streptomycin

UNIT- V

Pyrethroids and Rotenones, Pheromones

Synthesis and reactions of Pyrethroids and Rotenones.

(For structure elucidation, emphasis is to be placed on the use of parameters wherever possible)

SEMESTER IV - CHEMISTRY PRACTICALS

LAB COURSE CODE ORGANIC CHE 546
(In addition to CHE 524, 525 & 526)

Course Credit = 02
(40 hrs)

- (a) Estimation of $-\text{NO}_2$ group in organic compounds.
- (b) Isolation of casein from milk, piperine from black papper and nicotine from tobacco.
- (c) Applications of NMR spectrocopy (^1H & ^{13}C), UV, IR and Mass Spectroscopy in structure determination of organic and biologically important compounds
- (d) Project

PROPOSED SYLLABUS

For M.Sc. CHEMISTRY (Physical)

(THEORY & PRACTICAL)

**CHOICE BASED CREDIT SYSTEM
(C.B.C.S)**

(2019 onwards)



**Department of Chemistry
Faculty of Science
University of Allahabad
Allahabad – 211002**

SEMESTER I - THEORY PAPER

CORE COURSE CODE: CHE 503 – PHYSICAL CHEMISTRY

Paper – III

Course Credit = 04
(40 Lectures)

UNIT – I

Partial Molar Properties, Nernst Heat Theorem (NHT) and Third Law of Thermodynamics

Nernst Heat Theorem and its application to non-condensed systems, Statements of the Third Law of Thermodynamics, Derivation of unattainability of absolute zero, The relationship between entropy constant and Nernst chemical constant, Determination of entropy from the Third Law using the correction due to gas imperfections.

UNIT – II

Statistical Mechanics

Quantum states and complexions, The combinatory rule, System with definite total energy, Degeneracy of energy levels, Probability and most probable distribution, Indistinguishability, Maxwell-Boltzmann statistics, partition function, Translational, rotational, vibrational, nuclear and electronic partition functions, Internal energy and heat capacity in terms of partition function.

UNIT – III

Spectroscopy

Molecular Spectra- Basic concepts of molecular spectroscopy, Classification of spectra, Characterization of electromagnetic radiations, Regions of the spectrum,

Rotation Spectra- Rigid and non-rigid rotation spectra-selection rule, Centrifugal distortion, Isotopic shift, Spectra of polyatomic molecules, Rotational constant, Experimental techniques.

UNIT – IV

Vibration rotation spectra- Simple harmonic oscillator, Vibrational energy, Anharmonicity, principle of vibration-rotation spectra, selection rule, PQR branches, Vibration in polyatomic molecules, Effect of nuclear spin, Isotopic shift, group frequency, Experimental techniques.

UNIT – V

Chemistry of Macromolecules

Introduction of type of polymers, Step polymerization, Kinetics of step polymerization, Statistical approach to Gelation, Molecular weight distribution in linear polycondensation (Derivation of size distribution), Molecular weight averages, Method of determining the molecular weight by osmotic pressure, Light scattering, Sedimentation and Viscosity methods.

SEMESTER – I PRACTICALS – LAB COURSE

PHYSICAL CHEMISTRY (in addition to Core Course Code CHE 503)

LAB COURSE CODE CHE 535

**Course Credit = 02
(40 hrs)**

- 1. Determine the concentration or percentage of one or two optically active substances in the given solution polarimetrically.**
- 2. Kinetics of oxidation of reducing sugars by potassium ferricyanide/copper(II) in presence of ammonium hydroxide or sodium hydroxide.**
- 3. Kinetics of oxidation of alcohols/diols by aqueous alkaline hexacyanoferrate (III) ions.**
- 4. Potentiometric titration of weak/strong acid and strong /weak base.**

SEMESTER II - THEORY PAPER

COURSE CODE: CHE 507 – PHYSICAL CHEMISTRY

Paper – III

Course Credit = 04
(40 Lectures)

UNIT-I

Quantum Chemistry : Origin of quantum theory, Black body radiation, Wien and Rayleigh-Jeans laws, Planck's law and energy of harmonic oscillator

Postulates of quantum mechanics, Three dimensional time independent Schrodinger wave equation, Eigen functions and eigen values, Normalization and Orthogonality conditions, One dimensional harmonic oscillator, Tunnel effect, Eigen function and eigen value of H-atom (Solutions not required), shapes of s, p, d and f- orbitals

Approximate Methods- Variation principle and its application to ground state H-atom, Radial and Angular distribution curves for H-atom

UNIT-II

Chemical Kinetics : Thermodynamic formulation of rate constant, Comparison of collision and absolute reaction rate theories, Calculation of transmission coefficient, Transition State Theory in Solution, Primary and Secondary salt effects in the light of mechanistic tests, The theory of Absolute reaction rates - for reactions between atoms and reactions between molecules in terms of partition function, Influence of ionic strength and dielectric constant, Explosive reactions.

UNIT- III

Photochemistry - Primary and secondary processes in photochemistry, Fate and properties of excited states, Photoluminescence and Photostationary state, Photosensitization, Rice – Herzfeld mechanisms. Photochemical chain reactions (hydrogen and chlorine, hydrogen and bromine) Non-chain photochemical reactions (formation of phosgene, decomposition of H₂O₂ in presence of CO).

UNIT-IV

Electrolytes

Limitation of Arrhenius theory of electrolytic dissociation, Role of solvent and inter-ionic forces, activities and activity coefficients, determination of activity coefficients, Debye-Huckel Theory of the structure of dilute ionic solution, charge density and electrical potential, Properties of ionic cloud, activity coefficients from Debye-Huckel theory, Limiting law and its verification, Debye-Huckel Theory to more concentrated solutions, Partial molar quantities of electrolytic solutions, determination of partial molar volume.

UNIT- V

Solid State

Crystal structures, Symmetry, Bonding in solids, Miller indices, Bragg's equation, X-ray analysis of NaCl.

SEMESTER – II PRACTICAL – LAB COURSE

PHYSICAL CHEMISTRY (in addition to Core Course Code CHE 507)

LAB COURSE CODE AGR. CHE 539

**Course Credit = 02
(40 hrs)**

- 1.** Uncatalyzed oxidation of cyclic ketones by alkaline hexacyanoferrate(III)
- 2.** Kinetics of oxidation of diols by cerium (IV) sulphate in aqueous sulphuric acid medium.
- 3.** Determination of density of refractive index of binary mixtures of acetone + CCl₄ at different compositions and calculation of partial molar volumes.
- 4.** Conductometric/potentiometric titration of mixture of acids; KCl and KI etc.

SEMESTER III - THEORY PAPER

CORE COURSE CODE - CHE 515

**Course Credit = 04
(40 Lectures)**

PAPER – I

UNIT-I

Distribution law (Barometric formula), Sedimentation equilibrium, Maxwell's law of distribution of velocity and energy, Maxwell's law and Gaussian density function, R,M,S, Mean and Most probable velocities, Collision frequency, Collision between like and unlike molecules, Triple collision.

UNIT-II

Viscosity, thermal conductivity and diffusion coefficient of gases (quantitative treatment), mean free path.

UNIT-III

Indistinguishability of gas molecules, Maxwell-Boltzmann law for gaseous system, Thermodynamic functions for gaseous systems, Molar heat capacity of gases, Heat capacity of hydrogen at low temperatures, Heat capacities of monoatomic crystals, The Einstein model, Debye's theory of solid, Heat capacities of crystals at very low temperatures.

UNIT-IV

Calorimetric entropy, Spectroscopic entropy, Comparison of calorimetric and Spectroscopic entropies, Third law of thermodynamics (i) Nernst Heat Theorem (ii) Entropy of chemical reactions (iii) statements of third law of thermodynamics and (iv) Conventional entropies, Expression of equilibrium constant in terms of partition functions, Equilibrium constants of simple system-(i) Ionization of metal atoms, (ii) Dissociation of diatomic molecules and (iii) Isotopic exchange equilibria.

UNIT-V

Calculation of thermodynamic properties from spectroscopic data, Bose-Einstein statistics, Fermi Dirac Statistics, Comparison of M-B, B-E and F-D statistics, Fermi-Dirac gas (Electron gas in metals)- Bose —Einstein gas (liquid Helium).

SEMESTER III - THEORY PAPER

CORE COURSE CODE –CHE 516

**Course Credit = 04
(40 Lectures)**

PAPER – II

UNIT-I

Magnetic susceptibility and its determination, susceptibility equivalents, Pascal's law and its applications, Diamagnetism of elements, Compounds and its ions, Langevin's theory of paramagnetism, Curie's law, Weiss molecular field theory of paramagnetism, Curie-Weiss law, Determination of Curie point.

UNIT-II

Orbital and spin moments, Electrons and multielectron systems, Magnetic property of complex compound in relation to their structure, Bohr magneton, L-S and J-J couplings. Electronic spectra of molecules, Born-Oppenheimer approximation, Franck-Condon principle, Rotational fine structure of Electronic-Vibration transitions, Predissociation spectra, Molecular photoelectron spectroscopy (PES).

UNIT-III

Quantum theory of Raman Spectra, Stokes and Antistokes lines, Rotation and vibration Raman spectra, Mutual exclusion principle, Laser Raman spectra, Theory of NMR relaxation process and chemical shift, The coupling constant, Nuclear spin interaction, Principle of ESR, Magnetic moment of electron and splitting factor, Hyper-fine splitting and double resonance in ESR.

UNIT- IV

Mossbauer spectroscopy and its principle, Origin of line width, Isomer shift, Quadrupole effects, Application of Raman, ESR, NMR and Massbauer spectra, C^{13} NMR spectroscopy, P^{31} NMR spectroscopy STM (Scanning Tunneling Microscopy)-theory and application, AES (Auger Electron Spectroscopy), EELS (Electron Energy Loss Spectroscopy)

UNIT-V

Mechanism of electrode reactions, Overpotential, The current-potential relation, The Tafel equation, Hydrogen overvoltage and decomposition potential, Butler-Volmer equation, H_2 -Evolution mechanism

SEMESTER III - THEORY PAPER

CORE COURSE CODE - CHE 517

**Course Credit = 04
(40 Lectures)**

PAPER – III

UNIT-I

Kinetics of fast reactions : Techniques of study of fast reactions with reference to stop flow, T-Jump, Flash photolysis and relaxation phenomena. Kinetics of oscillating reactions with special reference to Belousov-Zhabotinskii mechanism (B-Z mechanism).

UNIT- II

Thermodynamic functions for non-equilibrium states, Postulates and methodology, Linear laws, Gibbs equation, Entropy production and entropy flow, Phenomenological equations, Microscopic reversibility and Onsager's reciprocity relations.

UNIT-III

Transformations of the generalized fluxes and forces, Electrokinetic phenomena, Diffusion, Electric conduction, The stationary non-equilibrium states, States of minimum entropy production.

UNIT-IV

Nature of intermolecular forces, Linear oscillating dipoles, Various contributions of intermolecular forces, London theory of dispersion forces, Partition function for system of independent particles, Thermodynamics of atomic crystals

UNIT-V

Partition function for system of dependent particles, partition functions (pressure, free energy and fugacity) of imperfect gas, Generalized model of imperfect gas and L-J potential and evaluation of second virial coefficient.

SEMESTER III - PRACTICALS CHEMISTRY

LAB COURSE CODE-PHYSICAL CHE- 543

(In addition to CHE CODE - 515, 516 & 517)

Course Credit = 04

(40 Lectures)

1. Oxidation of diols by cerium(IV) sulphate in acidic medium catalyzed by rhodium(III) chloride.
2. Kinetics of oxidation of ketones by Ce(IV) sulphate in acidic medium catalysed by Ir(III) chloride .
3. Uncatalyzed and/or iridium (III) catalyzed oxidation of arsenic (III) with alkaline hexacyanoferrate (III).
4. Determination of viscosity and density of aqueous solution of glucose/sucrose/urea at different temperatures and to calculate apparent and partial molar volume.
5. Determination of molecular weight of some electrolytes and non-electrolytes cryoscopically.

SEMESTER IV - THEORY PAPER

PAPER -I

CORE COURSE CODE - CHE 528

**Course Credit = 04
(40 Lectures)**

UNIT- I

Ideal and non-ideal solutions, Inter-connection between Raoult's law and Henry's Law, Determination of Partial Molar Properties, Thermodynamic functions of mixing of non-ideal solutions, Excess thermodynamic functions.

UNIT- II

Gibbs-Duhem-Margules equation and its applications, Activity and activity coefficients, Activity coefficients from excess thermodynamic functions, The theory of Van Laar, Scatchard Hildebrand theory, Wilson model and Flory-Huggins theory.

UNIT- III

Concept of operators in quantum mechanics—operators for velocity, kinetic energy, momentum and angular momentum, Derivation of Heisenberg's uncertainty principle, Solution for Hydrogen atom, Born-Oppenheimer approximation, Valence bond theory and its application to homonuclear (Hydrogen) and heteronuclear (HCl) diatomics, LCAO-MO treatment of hydrogen molecule ion, Comparative study of MO and VB theory.

UNIT- IV

Huckel molecular orbital theory and its application to hybridization systems (ethylene, butadiene, allyls and benzene), Calculation of delocalization energy, Physical significance of charge density and bond order, Calculation of bond length, Pauling and Wheland's modification in HMO theory and its application to heteromolecules (pyrimidine), Perturbation methods in LCAO-MO theory, Extended Huckel molecular orbital theory and SCF-MO method,

UNIT- V

Properties of colloids, sol-Gel transformation formation, colloidal electrolytes, Micellization and surfactants.

SEMESTER IV - THEORY PAPER

PAPER –II

**Course Credit = 04
(40 Lectures)**

CORE COURSE CODE - CHE 527

UNIT- I

Lattice energy of crystals, Cohesive energy, Conduction in solids and superconductance, Electronic structures of solids, Free electron theory, Fermi-gas theory and band theory of solids, Metals, semi-conductors and insulators, Intrinsic extrinsic p-type and n-type semi-conductors,

UNIT- II

Vapour pressure, compressibility viscosity and sound velocity, Internal pressure and its determination, Significance of internal pressure, solubility parameter and cohesive-energy-density, Free volume of liquids and its determination, Application of free volume and its relation with energy and heat of vaporization.

UNIT- III

Partition function of a liquid, Equation of state in terms of partition function, Outline of the theory of liquid state: Simple cell theory (Eyring equation) and cell model theory of Lennard-Jones and Devonshire, Eyring's free volume theory of liquid viscosity, Effect of pressure on viscosity, Thermodynamic functions of ideal and non-ideal liquid mixtures, Partial molar properties of liquid mixtures, Determination of partial molar volume and partial molar enthalpy,

UNIT- IV

The triumph and limitations of Debye-Huckel theory of activity coefficients, Electrical potential and mean activity coefficient in the case of ionic clouds with finite sized ions, The ion size parameter and comparison of the finite-ion-size model with experiment, Asymmetry and electrophoretic effects, Stoke's law and Walden product, Debye-Huckel-Onsager equation, Conductance ratio and the Onsager slope, Verification of Debye-Huckel-Onsager equation, Conductivity of weak electrolytes and conductance in nonaqueous solvents, Modifications of Debye-Huckel-Onsager equation, Fuoss-Onsager and other equations, Wien and Debye-Falkenhagen effects.

UNIT- V

Viscosity of electrolyte solutions-Jones-Dole equation and significance of A and B coefficients, Ion association in an electrolyte solution, Formation of pairs, triplets etc,

The probability of finding oppositely charged ions near each other, Bjerrum theory of ion association,

SEMESTER IV - THEORY PAPER

PAPER –III

CORE COURSE CODE – CHE 529

**Course Credit = 04
(40 Lectures)**

UNIT- I

Heterogeneous catalysis, Kinetics and mechanism of reactions on surface, Mechanism of surface reactions, Uni and bi-molecular surface reactions, Langmuir-Hinshelwood mechanism, Langmuir-Rideal mechanism, Inhibition of surface reactions, Absolute reaction rate theory of surface reactions.

UNIT- II

Comparison of homogeneous and heterogenous reactions, Study of equilibrium constant and steady state treatment for Arrhenius and Vant Hoff's complexes, Influence of substituents on reaction rates (inductive and electromeric effects), Linear free energy relation ship, Taft equation, compensation effect, Hemmett acidity tunctions.

UNIT- III

a) Oxidation of sugars by $K_3Fe(CN)_6$ and Cu^{+2} in alkaline medium,
(b)Uncatalyzed and platinum group metals (Osmium, ruthenium, iridium, palladium, rhodium etc.) Catalyzed oxidation of organic and inorganic compounds by $K_3Fe(CN)_6$ and Ce (IV) etc in acidic / alkaline medium.

UNIT- IV

Kinetic of initiation retardation, chain polymerization and ionic polymerization (anionic and cationic), Copolymerisation (with special reference to monomer reactivites ratios).

UNIT- V

Coordination polymerization, Degradation of polymers (oxidative, chemical and photolytic), An introduction to conducting polymers, Polyelectrolytesn.

SEMESTER IV - CHEMISTRY PRACTICALS

LAB COURSE CODE PHYSICAL CHE 547

(in addition to CHE 527, 528 & 529)

**Course Credit = 02
(40 hrs)**

- 1.** Study of the oxidation of cyclic alcohols by cerium(IV) sulphate in acidic medium in presence of Iridium(III) chloride.
- 2.** Kinetics of iridium (III) catalyzed oxidation of aromatic aldehydes/aromatic alcohols/hydrocarbons by cerium (IV) in aqueous acidic medium.
- 3.** Kinetics of Ru(III) catalysed oxidation of alcohols/diols by Ce(IV) sulphate in acidic medium .
- 4.** Kinetics of oxidation of aliphatic/cyclic alcohols/glycols by alkaline hexacyanoferrate(III) catalyzed by ruthenium (III) chloride.

PROPOSED SYLLABUS FOR M.Sc. CHEMISTRY

SEMESTER III

(THEORY & PRACTICAL)

CHOICE BASED CREDIT SYSTEM (C.B.C.S)

(2016 onwards)



The Syllabus and credits assigned is hereby approved.

**Department of Chemistry
Faculty of Science
University of Allahabad
Allahabad – 211 002**

SEMESTER III - ELECTIVE PAPER

ELECTIVE COURSE CODE – CHE 551

**Course Credit = 04
(40 Lectures)**

PAPER – IV

Solid – State and Nuclear Chemistry

(40 Lectures)

UNIT-I

Nuclear Energy (i)

Energy release in fission chain reactions, controlled release of fission energy use of moderators; Nuclear reactors including breeder reactors.

UNIT-II

Nuclear Energy (ii)

Energy release in fusion reactions; Principle of atom and hydrogen bombs. Nuclear Fuels-Fuel cycle & Fuel reprocessing.

UNIT- III

Radiochemical Analysis

- (i) Activation analysis
- (ii) Radiometric and radio – release methods

UNIT-IV

(i) Solid – State Chemistry

Theory of metals free electron, valence bond and molecular orbital theories, conductors, insulators and Semiconductors. Superconductivity.

UNIT-V

(ii) Solid – State Chemistry

Alloys and intermetallic compounds. Hume-Rothery Lattice defects in ionic crystals – stoichiometric and non-stoichiometric defects.

SEMESTER III - ELECTIVE PAPER

ELECTIVE COURSE CODE – CHE 552

**Course Credit = 04
(40 Lectures)**

PAPER – IV

Spectroscopy of Organic Compounds

UNIT-I

Nuclear Magnetic Resonance Spectroscopy

PMR Spectroscopy chemical exchange, effect of deuteration, complex spin-spin interaction between two, three four and five nuclei (first order spectra).

UNIT-II

Virtual coupling, Stereochemistry, hindered rotation, Karplus curve-variation of coupling constant with dihedral angle. Simplification of complex spectra-nuclear magnetic double resonance, contract shift reagents, solvent effects. Fourier transform technique, Nuclear Overhauser Effect (NOE). Resonance of other nuclei : F and P. Structural problems based on PMR.

UNIT-III

Carbon-13 NMR Spectroscopy

General considerations, chemical shift (aliphatic, olefinic, alkyne, aromatic, heteroaromatic and carbonyl carbon), coupling constants. DEPT,INEPT,APT techniques Two dimension NMR spectroscopy: COSY, NOESY and INADEQUATE techniques. Structural problem based on ^{13}C NMR.

UNIT-IV

Mass Spectrometry

Introduction, ion production-EI, CI, FD and FAB, factors, affecting fragmentation, ion analysis, ion abundance, Mass spectral fragmentation of organic compounds, common functional groups, molecular ion peak, metastable peak, Mc-Lafferty rearrangement Nitrogen rule. High resolution mass spectrometry Examples of mass spectral fragmentation of organic compounds with respect of their structure determination.

UNIT-V

Structural problems by joint application of UV, IR, NMR (^1H & ^{13}C) and mass spectroscopy.

SEMESTER III - ELECTIVE PAPER

ELECTIVE COURSE CODE – CHE 553

PAPER – IV

**Course Credit = 04
(40 Lectures)**

Biophysical Chemistry

Thermodynamics Of Biochemical System

Different types of chemical process accounting in living systems, Relation between microscopic and macroscopic dissociation constants (acid dissociations of amino acids), Calculation of binding curves binding of protons by phosphate), Relationship between number of ligands bond per molecule of base and the partition function, Bioenergetic thermodynamics , Role of ATP in biological systems , Themodynamics of hydrolysis of adenosine triphosphate (ATP), Standard Gibbs free energies of a number of phosphate esters, Binding of oxygen by Myoglobin and hemoglobin,

Photochemistry and photobiology

Introduction, Photosynthesis , Chlorophyll molecules , Photosystems I and II, Biochemical reactions ,Vision , Rotation about C-C and C=C bonds , Mechanism of vision , Chemiluminescence and Bioluminescence , UV irradiation of DNA

Statistical mechanics in biopolymers

Chain configuration and conformations of macromolecules , Proteins , Polypeptide structure , Protein folding problems

SEMESTER III - ELECTIVE PAPER

ELECTIVE COURSE CODE – CHE 554

**Course Credit = 04
(40 Lectures)**

PAPER IV

Environmental Analysis / Monitoring

UNIT-I

Water quality standards; Sampling and measurements of parameters like DO, BOD, COD, TOC, pH, Total Suspended Solids, Total Dissolved Solids, Hardness, Amount of Organic Matters, pE Determination of Inorganic ions, Plant Nutrients, NKP

UNIT-II

Methods of removal of Heavy Metals and Dyes from the polluted water

UNIT-III

Analysis of Waste Water- Monitoring of Soaps, Detergents and Pesticides in waste water, Sampling and Measurement of Air Pollutants, Monitoring automobile Emissions, Monitoring Emissions from Stationary Sources.

UNIT-IV

Monitoring Particulate Emissions (High – Volume sampling, Separation of Particles by size, XRF Spectrometry)

UNIT-V

Monitoring of Disease – Causing Agents, Microbiological tests for coliform, Multiple – Tube Fermentation Technique, Membrane Filtration Technique Ortho – nitrophenyl – – D – galactopyranoside (ONPG) Test.

PROPOSED SYLLABUS FOR M.Sc. CHEMISTRY

SEMESTER IV

(THEORY & PRACTICAL)

CHOICE BASED CREDIT SYSTEM (C.B.C.S)

(2016 onwards)



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Faculty of Science
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Allahabad – 211 002**

SEMESTER IV - ELECTIVE PAPER

PAPER – I

ELECTIVE COURSE CODE – CHE 555

**Course Credit = 04
(40 Lectures)**

Environmental Chemistry

UNIT: I

Introduction to Environmental Chemistry

Concept and scope of environmental chemistry, Environmental terminology and nomenclatures, Environmental segments.

UNIT: II

The natural cycles of environment (Hydrological, oxygen, Nitrogen)

UNIT: III

Chemical Toxicology

Toxic chemicals in the environments, Impact of toxic chemicals on enzymes, Biochemical effects of arsenic, cadmium, lead, mercury, carbon monoxide, nitrogen oxides, sulphur oxides.

UNIT: IV

Air Pollution

Particulates, Aerosols, SO_x, NO_x, CO_x and hydrocarbon, Photochemical smog, Air-quality standards.

UNIT: V

Water Pollution

Water-quality parameters and standards: physical and chemical parameters, Dissolved oxygen, BOD, COD, Total organic carbon, Total nitrogen, Total sulfur, Total phosphorus and chlorine, chemical separation (Pb, As, Hg)

SEMESTER IV - ELECTIVE PAPE

PAPER – II

ELECTIVE COURSE CODE – CHE 556

**Course Credit = 04
(40 Lectures)**

Reagents and Reactions

UNIT: I

Reagents in Organic Synthesis

Use of following reagents in organic synthesis and function group transformation (including stereochemistry where possible)

Complex metal hydrides – NaBH₄, LiAlH₄, DIBAL, diborane, diisoamylborane, thexylborane, 9-BBN, isopinocampheyl and diisopinocampheylborane, catechoborane
Gilman's reagent
Lithium diisopropyl amide (LDA)

UNIT: II

Use of following reagents in organic synthesis and function group transformation (including stereochemistry where possible) :

Dicyclohexylcarbodiimide (DCC)
1, 3-Dithiane (Reactivity Umpolung)
Trimethylsilyl iodide
Tri n-butyltin hydride
DEAD

UNIT: III

Use of following reagents in organic synthesis and function group transformation (including stereochemistry where possible) :

DDQ
Hydrazine and phenylhydrazine
Nucleophilic heterocyclic carbenes (NHC)
Nitrogen, Sulphur and Phosphorus Ylides
Preparation and their synthetic applications.

UNIT: IV

Selective Organic name reaction and their Synthetic Application

Stork Enamine reaction
Ene Reaction
Barton Reaction
Hofmann-Löffler-Freytag Reaction
Shapiro Reaction

UNIT: V

Green Chemistry

Introduction of green chemistry basic principles of green chemistry, organic synthesis using visible light, ionic liquid and PEGs.

Selective Organic name reaction and their Synthetic Application

Baylis-Hillman Reaction

Stetter Reaction

SEMESTER IV - ELECTIVE PAPER

PAPER – III

ELECTIVE COURSE CODE – CHE 557

**Course Credit = 04
(40 Lectures)**

Nano-Catalysis

UNIT : I

Introduction, classification of nanomaterials, preparation and characterization, different types of nanostructures- nanoparticles, nanoclusters, nanowires, nanorods, nanofilms, nanotubes, C-nanotubes etc

UNIT : II

Chemical activity, selectivity and specificity of nanocatalyst, role of size, shape and surface area of nanoparticles in catalysis. Bulk and nanoscale surfaces, chemical reactions on point defects on oxide surfaces.

UNIT : III

Chemical reactions and catalytic processes on free and supported clusters, catalytic processes on free metal clusters, chemical reactions and catalytic cycles on supported clusters. single atoms on oxide surfaces, size -selected clusters on oxide surfaces, size -distributed clusters on oxide surfaces.

UNIT : IV

Mode of action of catalysts, classification & comparison-homogeneous and heterogeneous catalysis, Mechanism: intermediate steps and kinetics of homogeneous and heterogeneous processes, Langmuir Hinshelwood mechanism for nanocatalyst.

UNIT : V

Techniques to determine the properties of nanocatalysts like TEM, XRD. Applications of nanocatalysis in pharmaceutical, in synthesis of fine chemicals, in medicine for protection of environment etc.

SEMESTER IV - ELECTIVE PAPER

PAPER – IV

ELECTIVE COURSE CODE – CHE 558

**Course Credit = 04
(40 Lectures)**

Nuclear Chemistry and Radiochemical Analysis

UNIT - I

Fundamentals of Nuclear Chemistry, Stability of nucleus, Properties of nucleus, Nuclear Models.

UNIT - II

Nuclear reactions – fission, fusion, spallation, fragmentation, stripping and pick up reactions, photonuclear and thermonuclear reactions.

UNIT - III

Interaction of Radiation with matters : Counting techniques and counting statistics, Ionisation, Proportional GM and scintillation counters, counting errors and corrections, Chemical Dosimetry.

UNIT - IV

Activation Analysis Tracer Techniques and Dilution Analysis, Radiometric titrations.

UNIT - V

Radiocarbon and other dating

The question paper shall comprise of Two Section – A and B. Section –A shall have a compulsory question divided into two parts i.e. (a) and (b) carrying 10 marks each out of which at least one numerical / practical question shall be asked in paper numbers I, VII, VIII, and XIII. Section – B shall offer a choice of attempting any four of six questions carrying 20 marks each. Four questions out of six shall be of numerical / practical problems in respect of Paper Nos. I, VII, VIII, and XIII. In other papers all question shall be conceptual / theoretical in both the Sections A and B with choice for attempting the questions remaining the same

B.Com. Part- I
Detailed Course Contents
Group-‘A’
Paper-I: Accounting

Pattern of Examination:

The question paper shall comprise of two sections- A and B. Section-A shall have a compulsory question divided into two parts i.e. (a) and (b) carrying 10 marks each out of which at least one numerical / practical question shall be asked. Section- B shall offer a choice of attempting any four out of six questions carrying 20 marks each. Four questions out of six shall be of numerical/practical problems.

1. Nature, Principles and Concept of Accounting:

- (a) Nature of Accounts, Bases of Accounting, Users of Accounting Information.
- (b) Principles of Accounting- Accounting Concepts and Conventions.
- (c) Indian Accounting Standards- a brief study.

2. Government Accounting and Lease Accounting:

- (a) **Government Accounting:** Meaning, Objectives, Principles, Structure of Funds, Compilation of Accounts and Functions of Treasury.
- (b) **Lease Accounting:** Meaning, Significance, Classification of Leases- Operating and Finance, Accounting treatment.

3. Reserves and Funds:

Reserves for Ascertained, Anticipated and Contingent Liabilities, Reserve Funds, Specific Funds (Dividend Equalization Fund, Insurance Fund), Sinking Funds, Secret Reserves.

4. Royalty Accounts: Basic Terms- Royalty, Dead Rent, Short Working etc., Entries in the books of Lessee and Lessor. **Practical Problems**

5. Accounts of Installment Retailing:

(a) **Hire Purchase System:** The System and its Operation, Analysis of Installment from Accounting View Point, Entries in Hire Purchasers' Books, Entries in Hire Vendors' Books, The System Appropriate to the Sale of Large number of Articles of Small Value. **Practical Problems**

(b) **Installment Payment Method:** System and its Operation, Entries in the Books of the Buyer, Entries in the Books of the Seller, Comparison with Hire Purchase System. **Practical Problems**

6. **Accounts of Branch Organisation:** Features of Suitable System of Branch Accounts, Accounts Relating to Branches Authorized to Sell Goods Supplied at Cost Price by the Head Office for Cash as well as on Credit, Accounts relating to Branches when Goods Supplied by the Head Office at Marked Price, Accounts Relating to Independent Branches, Accounts Relating to Foreign Branches. **Practical Problems**

7. **Accounting of Insurance Claims:** Stock Insurance, Loss of Profit Insurance. **Practical Problems**

8. **Amalgamation of Companies:** Amalgamation in the Nature of Merger and Amalgamation in the Nature of Purchase; Purchase Consideration; Pooling of Interest Method and Purchase Method; Entries Relating to Realization Expenses. Accounting Entries, **Practical Problems**

9. **Accounting of Holding Companies:** Holding Companies- Its Rational Legal Definition, Advantages and Disadvantages; Consolidated Balance Sheet; Minority Interest, Cost of Control, Pre-acquisition and Post-acquisition Profit. **Practical Problems**

10. **Liquidation of Company:** Order of Payment; Preferential Creditors; Contributories; Liquidator's Final Statement of Account. **Practical Problems**

Suggested Readings:

1. Jagdish Prakash: Advanced Accountancy; PPB, Allahabad (Hindi & English)
2. Ramendu Roy: Accounting Principles and Practice; PPB, Allahabad (Hindi & English)
3. Jain & Narang: Advanced Accountancy; Kalyani Publishers, Ludhiana
4. Maheshwari & Maheshwari: Advanced Accountancy; Vikas Publishing House, New Delhi
5. R. K. Singh, P. Saxena & A. Agrawal: Advanced Accountancy, SPB, Allahabad (Hindi & English)

B.Com. Part- I

PAPER- II: BUSINESS LAW

Pattern of Examination:

The question paper shall comprise of two sections- A and B. Section-A shall have a compulsory question carrying 20 marks. Section- B shall offer a choice of attempting any four out of six questions carrying 20 marks each.

1. Law of Contract:

The Indian Contract Act, 1872 Sections 1 to 31, 56, 64,65,68,70 to 75, 124, 126, 148 to 151, 170, 172, 182 to 189, 201 and 211 to 225.

2. Sale of Goods Act, 1930:

Contract of Sale- Essentials of a Contract of Sale, Sale and Agreement to Sell; sale and gift, Sale and Barter, Sale and Bailment; Subject Matter of contract of sale, Types of goods, Effect of destruction of subject matter; Price- Mode of fixing the price; Conditions and Warranties, Implied Condition and warranties; Doctrine of Caveat Emptor; Transfer of ownership and title, Performance of contract of sale; Unpaid seller- Rights of unpaid seller; Suit for breach of contract; Sale by Auction.

3. The Limited Liability Partnership Act, 2008:

Salient Features, Difference between LLP and Partnership, LLP Agreement, Partners and Designated Partners- Duties and Responsibilities, Incorporation and Registration, Extent of liability of LLP and Partners, Dissolution.

4. Negotiable Instruments Act, 1881:

Definition, Legal Presumptions, Types of Negotiable Instruments, Holder and Holder in Due Course, Maturity of Negotiable Instruments, Endorsement, Crossing of Cheques.

5. Law of Insurance:

Insurance Contract, Characteristics of Insurance Contract/ Principles of Insurance; Doctrine of Subrogation; Reinsurance; Double Insurance; Kinds of Insurance- Life Insurance- Life Insurance Contract and its characteristics; Non Life Insurance/ General Insurance- Marine Insurance Contract and its characteristics; Fire Insurance Contract and its characteristics; Difference between Life Insurance and General Insurance.

6. U.P. Shops and Commercial Establishments Act, 1962:

Definition of Commercial Establishment; Registration of Shop and Commercial Establishment; Hours of Business; Holidays and Leaves; Wage, Deductions and Notices for Discharge; **Employment of Children and Women**; Enforcement and Penalties.

Suggested Readings:

1. Garg, Saxena, Sharma & Chawla: Mercantile Law; Kalyani Publishers, Ludhiana
2. Shukla & Sahai: Business Law, Sahitya Bhawan Publication, Agra (Hindi)
3. V. M. Baijal: Commercial Law, PPB, Allahabad (Hindi & English)
4. Singh R. K. & Amit Singh: Vanijya Sanniyam; Astha Pub., Allahabad
5. Singh R. K. & P. S. Sarnwal: Commercial Law; Kitab Mahal, Allahabad

B.Com. Part- I

Group-‘B’

Paper-III: Business Economics

Pattern of Examination:

The question paper shall comprise of two sections- A and B. Section-A shall have a compulsory question carrying 20 marks. Section- B shall offer a choice of attempting any four out of six questions carrying 20 marks each.

1. Introduction:

- (a) Concept, Nature, and Scope of Business Economics.
- (b) Utility Analysis: Concept and Form of Utility; Laws of Diminishing Marginal Utility and Equi Marginal Utility.
- (c) Consumer’s Surplus (Marshallian and Hicksian Approaches)

2. Demand Analysis:

- (a) Concept and Classification of Demand; Determinants of Demand; Law of Demand.
- (b) Elasticity of Demand: Concept of Elasticity of Price-Demand; Income-Demand, and Cross-Demand; Degree and Measurement, Methods of Elasticity of Price-Demand; Relationship of Elasticity of Price-Demand with Law of Diminishing Marginal Utility.
- (c) Demand Forecasting: Concept, Determinants, Objectives of Demand Forecasting; Methods of Demand Forecasting for Established Products of a Firm. Importance of Demand Forecasting.

3. Production Analysis: Concept of Production; Laws of Production/ Variable Proportion and Return to Scale, Economies and Diseconomies of Scale.

4. Cost and Revenue Analysis:

- (a) **Cost Analysis:** Concept and Classification of Cost; Cost-Output Relationship; Significance of Cost Analysis in Business Decision making.
- (b) **Revenue Analysis:** Concept of Revenue; Classification of Revenue; Revenue Output Relationships.

5. Pricing Analysis: Market Competition Forms; Pricing of Output under Perfect Competition; Monopoly; Discriminating Monopoly and Imperfect Competition.

6. Theories of Distribution:

(a) Ricardian and Modern Theories of Rent

(b) Keynesian Liquidity Preference and Modern Theories of Interest

(c) Marginal Productivity and Modern Theories of Wage

Suggested Readings:

1. P.N.Chopra: Business Economics, Kalyani Publishers, Ludhiana

2. H.K.Singh & Meera Singh: Business Economics; Kalyani Publishers, Ludhiana (Hindi)

3. D.D. Chaturvedi, S.L.Gupta & Anand Mittal: Managerial Economics, Brijwasi Book Distributors, Delhi

4. K.K. Dewett: Modern Economic Theory; Shyam Lal Charitable Trust, New Delhi

B.Com. Part- I

Paper-IV: Business Communication

Pattern of Examination:

The question paper shall comprise of two sections- A and B. Section-A shall have a compulsory question carrying 20 marks. Section- B shall offer a choice of attempting any four out of six questions carrying 20 marks each.

- 1. Elements of Communication:** (a) Forms of Communication: Formal and Informal, Interdepartmental, Verbal and Nonverbal; Active Listening and Critical Thinking (b) Communication Channels (c) Communication Breakdown (d) **Communicating Ethics** (e) Soft Skills- Personality Traits; Interpersonal Skills; Leadership
- 2. Communication in Business Environment:** (a) Business Meetings, Notice, Agenda, Minutes (b) Press Releases (c) Corporate Communication: Internal and External, Group Discussion, Seminars, Presentations.
- 3. Report Writing:** Types of Reports, Steps in Business Report Writing, Styles, Sample Reports, Reporting of Proceedings of a Meeting.
- 4. Letter Writing:** Types of letters, Parts of Business Letters, Format of Business Letters, Full Block, Block, Semi Block, Simplified; Request Letters, Good News Letters, Persuasive Letters, Sales Letters. How to make Business Letters' Effective.
- 5. Memo Writing:** Advantages, Disadvantages, Memo Format, How to write Effective Memos- Pre Writing Stage, Writing Stage, New Writing Stage, Specimens.
- 6. Job Application and Resume Writing:** (a). Types of Application Letters- Solicited and Prospecting, Specimen of Job Application Letters, (b). Resume Writing- Physical Appearance, Layout of the Resume, Specimens
- 7. Business Language and Presentation:** Importance of Business Language; Oral Presentation: Importance, Characteristics, Presentation Plan, Power Point Presentation, Visual Aids.
- 8. Technology and Business Communication:** Role and Significance of Technology in Business Communication, E-Mail, Text Messaging and Modern Techniques like Video Conferencing and Social Networking: Process and Precautions.

Suggested Readings:

1. Ajai Kumar Singhal, Varinder Kumar & T.D. Malhotra: Business Communication & Computer: Kalyani Publication, Ludhiana
2. Dinesh Kumar, B.P. Yadav & Sanjai Goswami: Business Communication and Computer; Astha Publications, Allahabad

B.Com. Part- I

Group-‘C’

Paper – V: Money, Banking and Foreign Exchange

Pattern of Examination:

The question paper shall comprise of two sections- A and B. Section-A shall have a compulsory question carrying 20 marks. Section- B shall offer a choice of attempting any four out of six questions carrying 20 marks each.

1. **Money:** Definition, Functions, Significance and Classification; Role of Money in Different Economies – Capitalist, Socialist and Mixed.

2. Demand for and Supply of Money:

Demand for Money: Concept Approaches: Classical, Keynesian, Portfolio Balance and Wealth Adjustment.

Supply of Money: Concept, Approaches: Conventional, Chicago, Gurley – Shaw and the RBI Approach

3. Value of Money:

a) Meaning and Determination – Quantity Theory of Money – Cash Transaction Approach; Cash Balance Approach, Real Balance Approach and Income – Expenditure Theory.

b) Measurement of Value of Money – Index Number, Effect of Changes in the Value of Money – Inflation and Deflation

4. The Money Market:

(a) Definition; Composition; Characteristics; Significance and Defects.

(b) The Institutions of Money Market: Non-Banking Financial Companies- Scope, Extent and Regulations.

(c) Money Market Instruments: Calls Money Market, The Bill Market in India, Commercial Papers, Certificates of Deposits, Commercial Bills and Treasury Bills.

5. **Monetary Policy:** Meaning, Objectives, Suitable Monetary Policy for a Developing Country like India, Instruments of Monetary Policy.

6. **Banking:** Definition, Functions, Significance and Types of Banks, Banking Operations, Process and Limits of Credit Creation.
7. **Central Banking:** Functions of Central Banking, Objectives and Methods of Credit Control (with special reference to RBI).
8. **Digital Banking:** Meaning, Benefits, Mobile Banking, e-payments, RTGS, NEFT, ECS- Critical Evaluation.
9. **Foreign Exchange:** Meaning and problem of foreign exchange Determination of Exchange Rate: Mint Parity Theory, Purchasing Power Parity Theory and Balance of Payments Theory; Liberalized Exchange Rate Mechanism (LERM).
10. **I. M. F.:** Objectives, Organization and Working. The Problems of International Liquidity. Special Drawing Rights.

Suggested Readings:

1. D. M. Mithani: Money Banking, International Trade & Public Finance; HPH, Mumbai
2. Hari Gopal Das: Money Banking and Foreign Exchange: Sharda Pustak Bhawan,
3. Singh R. K. & Singh Amit: Mudra Banking Aur Antarrastriya Vyapar; Astha Pub., Allahabad

B.Com. Part- I

Paper – VI: Business Organisation and Management

Pattern of Examination:

The question paper shall comprise of two sections- A and B. Section-A shall have a compulsory question carrying 20 marks. Section- B shall offer a choice of attempting any four out of six questions carrying 20 marks each.

1. Introduction: Components and Objectives of Business, Manufacturing and Service Sectors, Impact of Liberalization and Globalization, Start-Up, Make In India and Skill Development Movement.

2. Social Responsibility and Ethics

3. Emerging opportunities in Business: Franchising, Outsourcing and E-Commerce: Features, Issues, Problems and Scope.

4. Location of Business Units: Meaning, Importance and Factors Affecting Location, Weber's Deductive Theory, Sergeant Florence's Inductive Theory.

5. Business Combination: Meaning, Causes, Types and Forms of Combinations, Advantages and Evils of Combination, Combination in Indian Industries.

6. Nature and Scope of Management: Concept of Management, Management as a Science and as an Art, Levels of Management, Role and Responsibility of Management, Evolution of Management Thought- Classical, Neo-Classical and Modern.

7. Functions of Management:

(a) Planning: Nature, Types, Significance and Limitations, Management by Objective (MBO).

(b) Decision Making: Types, Process, Rational Decision Making and its Limitations.

(c) Organising: Concept, Types, Divisions and Levels; Authority and Responsibility; Delegation of Authority, Centralization and Decentralization of Authority.

(d) Directing: Principles and Techniques.

(e) Communication: Process, Levels, Types and Barriers.

(f) Controlling: Process and Methods.

(g) Coordination: Concept, Techniques and Barriers.

8. Major Theories of Management: Scientific Management (F. W. Taylor), Administrative Management (Henri Fayol), Behavioural Theory (Elton Mayo).

Suggested Readings:

1. Jagdish Prakash: Business Organisation & Management; Kitab Mahal, Allahabad (Hindi & English)

2. B. P. Singh & T. N. Chhabra: An Introduction to Business Organisation & Management; Kitab Mahal, Allahabad

3. M. Motihar: Business Organisation and Management, Sharda Pustak Bhawan, Allahabad (English & Hindi)

**Department of Commerce and Business
Administration**

University of Allahabad



B. Com. Part – II and Part – III

Three Year Degree Course

The Department

Founded on September, 23rd 1887, the University of Allahabad, an internationally acclaimed centre of excellence, is the fourth oldest University in the country after Kolkata, Chennai and Mumbai. Over the period, the teaching component got expanded and presently the University has six identifiable facilities – Medicine, Engineering, Arts, Science, Law and Commerce. Of these, Commerce faculty was setup in 1916 with the establishment of Economics Department. The Department of Commerce was founded in 1924 and by 1965 the Department got its present identity as a combined setup for Commerce and Business Administration with the inception of M. B. A. and D. B. A. Programmes.

The Department of Commerce of the University of Allahabad has been one of the pioneers in the field of Business Education in the Country. It was established in the year 1924 with the commencement of teaching for Undergraduate degree the Bachelor of Commerce. The Postgraduate teaching for the master's degree in Commerce was started in the Department in the year 1940. The research programmes for Doctoral and Post-Doctoral degree were also launched in the same year. These developments were taking place at a time when Commerce Education had not made much progress elsewhere. Very few Universities had Commerce Departments and perhaps two: Mumbai and Kolkata, had Post Graduate teaching in Commerce.

Another dimension to the Department was added in 1958, when started thinking in terms of planning the future shape of Business Education and the Motilal Nehru Institute of Research and Business Administration (MONIRBA) was formally established. It was basically conceived as a research-oriented unit but had the secondary objective of furthering the cause of Management Education.

An Agro Economic Research centre was setup in keeping with the research objective, in the Motilal Nehru Institute of Research and Business Administration by the Union Minister of Food and Agriculture in the year 1963, under the Department renamed as the Department of Commerce and Business Administration.

The Department was the first among Indian Universities to introduce Post Graduate teaching in business administration in the year 1965. This was done after careful planning and assessment of the need for trained personnel to man managerial position in the expanding public and private sectors. The Postgraduate Diploma Courses in Business and Industrial Administration duly approved by the All India Council of Technical Education, Government of India, were initiated in the year 1967.

The Undergraduate teaching in Commerce was further expanded with the introduction of Correspondence Course and continuing education in the University of Allahabad in the year 1978.

The Department is operating from Commerce Building and Motilal Nehru Institute of Research and Business Administration, Chatham Lines, Allahabad, having impressive building and sprawling lawns, requisite number of classrooms, lecture theatres, halls, well equipped laboratories and a fairly big library. The building also houses the Agro Economic Research Centre, the Business Research Unit, the Case Collection Cell, the Placement Cell and the offices.

Over the year, the Department has built up a reputation for good teaching and research. Most of the members of the faculty have Doctoral Degrees and large number of books, articles, research papers and other publications to their credit. The Department has also contributed many eminent scholars. Professors, Administrators and Executives in the field of Business Education and Industry. The Department has rich record of organizing Faculty Development Programme, Executive Development Programme and Extension Programme like Seminars and Conferences for the benefit of Business Scientists and practicing executives of public and private sectors. The Department continues to be a pioneer in the field of Business Research and Education and has the potential to undertake many more activities in the field of Commerce and Management.

The Department is conducting graduate, postgraduate, doctoral and postdoctoral programmes on a full time and regular basis. The graduate level programmes consist of the B. om. course while there are postgraduate level programmes currently being run by Department. The currently run courses are as follows:

1. **B. Com.:** A full-time three years programme leading to the award of Bachelor's Degree in Commerce.
2. **M. Com.:** A full-time two years programme leading to the award of Master's Degree in Commerce.
3. **M. B. A.:** A full-time four semesters programme leading to the award of Master's Degree in Business Administration.

Disciplinary Considerations

The students are required to maintain prescribed levels of discipline in terms of attendance and proper conduct within and outside the Department. Every student is required to carry his / her Identity Cards all the time, and make use of the Departmental Cycle Stand after obtaining proper token for parking his / her vehicle. Parking of vehicle at any place other than the prescribed cycle stand is strictly prohibited and stern action shall be taken against defaulters. The students are required to exhibit proper conduct and keep away from any activity that may invite disciplinary action. For Identity Card and token for cycle stand, the students should get in touch with the University Proctor's Office with necessary action.

Co-Curricular Activities

The Department places a lot of importance on supplementing the academic curriculum with development activities. With this end in view Undergraduate Commerce Association (UGCA) is there. All the students of B. Com. Part – I, Part – II, and Part – III are the members of this association. Co-curricular activities like debates, quiz and essay competition etc. and cultural activities like dance competition, singing competition, rangoli competition etc. are held in the annual social function titled “COMFEST”. Besides the students can also join NCC.

Commerce Journal

The Commerce Journal, an annual feature, provides a forum for publication of creative articles and research papers of students. The students are entitled to membership of Undergraduate Commerce Library which provides the facilities of loaning books for the entire session on payment of requisite fee and security deposit.

B. Com. Part – II

Paper Name	
Compulsory	
Group – D	
VII	Cost Accounting
VIII	Auditing
Group – E	
IX	Business Statistics
X	Business Finance
Group - F	
XI	Business Environment
XII	Business Communication and Computers

B. Com. Part - III

Paper Name	
Compulsory	
Group – G	
XIII	Income Tax Law and Accounts
XIV	Corporate Accounts
Group – H	
XV	Human Resource Management
XVI	Marketing Management
Optional Groups (any one of them)	
Group – I	Insurance and Risk Management
XVII – A	Principles & Practices of Life and Property Insurance
XVII – B	Insurance Law, Salesmanship, and Risk Management
Group - J	Banking and Foreign Exchange
XVIII – A	Banking Law and Practices
XVIII - B	Foreign Exchange Practices and Problems
Group - K	Financial Market Analysis
XIX – A	Stock Market Operation
XIX – B	Security Analysis and Portfolio Management
Group – L	Corporate and Industrial Laws
XX – A	Company Law and Secretarial Practice
XX – B	Industrial and Labour Laws
Group – M	Mathematics & Computers
XXI – A	Mathematics for Business
XXI – B	Computer Applications
Comprehensive Viva-Voce	

Examination & Evaluation:

- a. The examination for the Degree of Bachelor of Commerce shall be held in three parts viz. at the end of Part - I, Part – II, and Part - III.
- b. Candidates shall be eligible to appear at the Part - II or Part - III examinations only after they have passed the Part - I and Part - II examinations, respectively.
- c. In order to be declared successful at the Part - I, Part - II and Part - III examinations, a candidate shall have to obtain a minimum of 30% in individual paper and 36% in aggregate.
- d. Divisions shall be awarded at the end of the Part - III examination on the total marks obtained in Part - I, Part – II, and Part - III examinations. Candidates who obtain 60% and more of the aggregate marks shall be placed in the First Division, candidates who obtain 48% or more but less than 60% of the aggregate marks shall be placed in the Second Division. Candidates who obtain 36% or more but less than 48% of the aggregate marks shall be declared to have passed in Third Division.

B. Com. – II

Group ‘D’

Paper No. VII: Cost Accounting

1. Nature, Principles, Objectives, Importance and Limitations of Cost Accounting; Installation of an Ideal Costing System: Steps in installing a Costing System, Difficulties in installing a Costing System.
2. **Material:**
 - a. **Purchase;** Centralized purchasing, Decentralized purchasing, Purchase procedure.
 - b. **Storage of Material:** Stores department, classification and codification, Bin Card, Two Bin System, stores ledger card, Difference between store ledger and Bin Card, treatment of spoilage, wastage and scrap of material.
 - c. **Issue of Material:** Requisition note, Material returned note, Material transfer note, Methods of pricing of Material issued: Cost price methods, Average cost price methods and Notional price method.
 - d. **Control:** Need, responsibility, methods of inventory control: ABC Analysis and EOQ concept, perpetual inventory system, periodic stock taking system.
3. **Labour:** Organisation of Labour Control, Time Keeping and Time Booking, Methods of Time Keeping, Methods of Time Booking, Job Card System, Types of Job Card, Methods of Remunerating Labour, various incentive plans, Group Bonus Scheme, other incentive schemes, Labour turnover, measurement of labour turnover.
4. **Overheads:** Classification; Allocation, Apportionment and Re-apportionment, Principles of apportionment, Methods of Re-apportionment, Absorption of Overheads, Methods of Absorption of Overheads.
5. Single Unit or Output Costing: Cost-sheet, Production Account; Calculation of Tender Price / Quotation Price. Practical Problems.
6. Contract Costing – Practical Problems.
7. Job and Batch Costing - Practical Problems
8. Process Costing: Simple Process Cost Account, Transfer to Warehouse, Abnormal wastage and abnormal efficiency, Normal wastage account, Joint products and By-products; Oil crushing, Refining and Finishing processes, Transfer price – Inter process profits. Practical Problems.
9. Reconciliation of Cost and Financial Accounts – Practical Problems.
10. Operating Costing (only transport and hotel) – Practical Problems.
11. Standard Costing and Variance Analysis (Material and Labour only) – Practical Problems.
12. Budgetary Control, Performance Budgeting and Zero Base Budgeting.

Suggested Readings:

1. Ajai Kumar Singhal: Cost Accounting – A Multidimensional Approach, PPB, Alld.
2. S. P. Jain & K. L. Narang: Cost Accounting: Principles and Practice; Kalyani Publishers, Ludhiana
3. Jagdish Prakash & Devesh Prakash: Cost Accounting; PPB, Allahabad
4. M. C. Shukla, T. S. Grewal & M. P. Gupta: Cost Accounting: Text and Problems; S. Chand & Company, New Delhi.
5. R. K. Singh & Shiv Shanker Shukla: Cost Accounting; Shikha Pub., Allahabad (Hindi & English)

B. Com. – II

Group ‘D’

Paper No. VIII: Auditing

1. **Introduction:** Meaning, Scope, Objective and Limitation of Auditing, Audit Process, Classification of Audit – Interim, Final and Continuous Audit, Internal and External Audit, Audit Standards and Audit Guidelines, Commencement and Conducting an Audit, Audit Programme, Audit Files and Working Papers, Test Checking and Routine Checking, Audit Evidence, Difference between Audit and Investigation.
2. **Internal Check:** Meaning, Objective, Implications, Distinction with Internal Control and Internal Audit, Essentials of a Sound System of Internal Check, Internal Check System with regard to specific areas – Purchase and Trade Creditors, Sales and Trade Debtors, Stock and Work-in-Progress, Wages and Salaries, Reliance of Auditor on Internal Check System.
3. **Vouching of Transactions:** Meaning, Objective, Significance and General Principles of Vouching, Vouchers and Their Reliability, Vouching of Specialised Transactions, Vouching of Trading Transaction, Vouching of Cash Transactions.
4. **Verification and Valuation:** Meaning, Objective and Principles of Verification and Valuation, General Considerations for Valuation of Assets, Guidelines on Verification of Assets issued by Institute of Chartered Accounts of India, Verification and Valuation of various Assets and Liabilities.

Companies Act 2013:

5. **Company Auditor and Conduct of Company Audit:**
 - a. **Company Auditor:** Appointment, Qualifications, Disqualifications, Remuneration, Removal, Rights, Duties, Powers and Liabilities of Company Auditor.
 - b. **Conduct of Company Audit:** Preliminaries to the Audit of Limited Companies, Company Books of Accounts, Share Capital Transactions, Borrowing Powers, Managerial Remuneration, Provisions of Companies Act, relevant to Audit.
6. **Auditor’s Report:** Scope, Contents, Qualified, Modified and Unqualified Audit Report, Consideration for making Qualifications in Audit Reports, Disclosure of Extraordinary events after Balance-sheet, Specimen of Audit Reports.
7. **Audit of Banking and Insurance Companies:** Features and special points relating to Audit of Banking Company and Insurance Company.
8. **Cost Audit and Management Audit:** Meaning, Objectives and Significance of Cost Audit and Management Audit, Cost Audit Report Rules in various Industries, Professional misconduct in Cost Accountants Act, Distinction of Management Audit with Cost Audit, Financial Audit and Responsibility Audit.
9. **Audit of Statutory Corporations, Government Companies and other Organisations:** Special Points and Basic Principles in Audit of Statutory Corporations, Government Companies, Local Bodies, Aided Educational Institutions, Comptroller and Auditor General and its Constitutional Role.

Suggested Readings:

1. Jagdish Prakash: Auditing – Principles, Practices & Problems; Kalyani Publishers, Ludhiana (Hindi & English)
2. G. D. Verma, Pradeep Kumar, Baldev Sachdeva & Singh: Auditing – Theory and Practice; Kalyani Publishers, Ludhiana

B. Com. – II

Group ‘E’

Paper No. IX: Business Statistics

1. Introduction: Meaning, Importance and Limitation; Collection, Classification, Tabulation and Presentation of Data.
2. Measures of Central Tendency: Mean, Median, Mode, Geometric Mean, Harmonic Mean, Relation between averages.
3. Measures of Dispersion: Range Method, Mean Deviation, Standard Deviation, Coefficient of Variation, Quartile Deviation.
4. Measures of Skewness: Karl Pearson’s Coefficient of Skewness, Bowley’s Coefficient of Skewness.
5. Correlation: Graphic and Scatter diagram method, Karl Pearson’s Coefficient of Correlation, Spearman’s rank Correlation Coefficient.
6. Analysis of Time Series: Moving average method, Least Square Method, Seasonal Variations, Irregular Fluctuations.
7. Index Number: Un-weighted Index number, Changing and Shifting of Base, Weighted Index number, Cost of living Index Number, Fisher’s Ideal Index Number, Reversibility Tests.
8. Interpolation: Parabolic Curve method, Newton’s method, Binomial expansion method, Lagrange’s method.
9. Probability: Classical and Axiomatic definitions, Addition theorem, Multiplication theorem (elementary problems only).
10. Statistical Organisation in India - CSO and NSSO

Suggested Readings:

1. R. K. Singh & S.S. Shukla: Business Statistics, Shikha Pub. Allahaabd
2. Ramendu Roy: Principles of Statistics; PPB, Allahabad (Hindi & English)
3. K. L. Gupta: Business Statistics; Navyug Shahitya Sadan, Agra
4. B. N. Asthana: elements of Statistics; Chaitanya Publishing House, Allahabad
5. D. N. Elhance: Fundamentals of Statistics; Kitab Mahal, Allahabad
6. S. P. Gupta: Statistical Methods; S. Chand & Sons, New Delhi
7. R. K. Singh & D. K. Verma: Advanced Statistics(Uchchatar Sannkhikiya); PPB, Allahabad (Hindi)
8. Singh R. K. & S. Shankar; Business Statistics; Kitab Mahal, Allahabad

B. Com. – II

Group ‘E’

Paper No. X: Business Finance

1. Nature and Scope of Finance Function.
2. Financial Objective of Business.
3. Concept of Time Value of Money.
4. The form and character of Balance Sheet information.
5. The form and character of Profit and Loss Statement information.
6. Ratio Analysis
7. Funds Flow Analysis
8. Cash Flow Analysis
9. Cost-Volume – Profit Analysis and Profit Planning
10. Theories of Capitalization
11. Causes, Consequences and Remedies of Over & Under Capitalization
12. Operating, Financial & Combined Leverage
13. Introduction, Nature and Importance of Capital Budgeting
14. Accounting Rate of Return and Pay Back Methods
15. Dividend: Kinds & determinants; Walter Formula

Suggested Readings:

1. Anvita Raghuvanshi & Richa Bhargava: Business Finance, Shikha Pub. Allahabad
2. H. K. Singh & Sankalp Srivastava: Business Finance; PPB, Allahabad (Hindi & English)
3. M. B. Shukla: Business Finance: Chaitanya Publishing House, Allahabad (Hindi)
4. Howard and Upton: Introduction to Business Finance; McGraw Hill Book Co. New York
5. S. C. Kuchal: Corporation Finance; Chaitanya Publishing House, Allahabad

B. Com. – II

Group ‘F’

Paper No. XI: Business Environment

1. Introduction, Concept of Business Environment and Eco-Environment, Environment Protection Act.
2. Economic Systems – Capitalistic, Socialistic & Mixed.
3. Role of the Government in Economy – Business / Industry, Agriculture and Services.
4. Causes of Poverty & Unemployment; Remedial Measures.
5. Regional imbalance & Social injustice.
6. Policies – New Industrial Policy and Monetary Policy, Trade Policy and EXIM Policy.
7. International Environment of Business: Multinational Corporations & foreign collaborations, Implications of WTO, Balance of Payment problems.
8. Social Environment – Society, Social Groups and their relationship with business. Demographic problems.
9. Legal Environment – Regulatory Authorities and their functions: Telecom Regulatory Authority of India (TRAI), Insurance Regulatory and Development Authority (IRDA), Securities and Exchange Board of India (SEBI).

Suggested Readings:

1. R. K. Singh & Sarita Maxwell: Business Environment, Shikha Publication, Allahabad
2. Rosy Joshi & Sangam Kapoor: Business Environment; Kalyani Publishers, Ludhiana
3. A. K. Malviya: Business Environment; PPB, Allahabad (Hindi)
4. Francis Cherunilam: Business Environment; HPH, New Delhi
5. Singh R. K. & Amit Singh: Vyavashayik Paryavaran; Astha Pub., Allahabad
6. M. Adhikari: Economic Environment of Business; S. Chand & Sons, New Delhi

B. Com. – II

Group 'F'

Paper No. XII: Business Communication and Computer

Part – A

1. **Elements of Communication:** (a). Forms of Communication: Formal and Informal, Interdepartmental, Verbal and Nonverbal; Active listening and critical thinking (b). Communication Channels (c). Communication Breakdown (d). Communicating Ethics (e). Soft Skills – Personality Traits; Interpersonal Skills; Leadership.
2. **Communication in Business Environment:** (a). Business Meetings, Notice, Agenda, Minutes (b). Press Releases (c). Corporate Communication: Internal and External, Group Discussion, Seminars, Presentations. (d). Report writing: Types of Reports, Steps in Business Report writing, Styles, Sample Reports. (d). Reporting of Proceedings of a meeting.
3. **Letter and Memo Writing:** (a). Types of Letters, Parts of Business Letters, Format of Business Letters, Full Block, Block, Semi-Block, Simplified; Request Letters, Good News Letters, Persuasive Letters, Sales Letters. How to make Business Letters' Effective. (b). Memos – Advantages, Disadvantages, memo Format, How to Write Effective Memos – Prewriting Stage, Writing Stage, New Writing Stage, Specimens.
4. **Job Application and Resume Writing:** (a). Types of Application Letters – Solicited and Prospecting, Specimen of Job Application Letters, (b). Resume Writing – Physical Appearance, Layout of the Resume, Specimens

Part – B

5. **Introduction to Computer:** (a). Computer Hardware: Classification of Computer – Personal Computer, Workstation, Servers and Super Computers; Computer Components – CPU, Input Output Devices, Storage Devices; (b). BUS, I/O CO Processors, Ports (Serial, Parallel, USB Ports), Expansion Slots, Add on Cards, On Board Chips, LAN Cards, Multimedia Cards, Cache Memory, Buffers, Controllers and Drivers; (c). Computer Software – System Software – Operating System, Open Source Software, Translators (Compilers, Interpreters and Assemblers), System Utilities; General Purpose Software / Utilities – Word Processor, Spread Sheet, DBMS, Scheduler / Planner, Internet Browser and E-Mail Clients.
6. **Data Storage and Retrievals:** (a). Data and Information Concepts: Bits, Bytes, KB, MB, GB, TB; (b). Data Organisation and Access Storage Concepts: Records, Fields, Grouped Fields, Special Fields Like Date, Integers, Real, Floating, Fixed, Double Precision, Logical, Characters, Strings, Variable Character Field (Memo); Key, Primary Key, Foreign Key, Secondary Key, Referential Integrity, Index Fields, Storage Techniques: Sequential, Block Sequential, Random, Indexed, Sequential Access, Direct Access, Random Access Including Randomizing Logical Structure and Physical Structure of Files.

Suggested Readings:

1. Ajai Kumar Singh, Varinder Kumar & T. D. Malhotra: Business Communication & Computer; Kalyani Publications, Ludhiana

2. Arun Kumar & Arpita Ghosh: Business Communication & Computer; Shuchita Prakashan (P) Ltd., Allahabad
3. Ekta Verma & J. K. Singh: Business Communication and Computer Application, Shikha Pub., Allahabad
4. Dinesh Kumar, B. P. Yadav & Sanjai Goswami: Business Communication and Computer; Astha Publications, Allahabad

B. Com. – III

Group ‘G’

Paper No. XIII: Income Tax Law and Accounts

Objective: To provide basic knowledge and equip students with application of the provisions of Income Tax Act, 1961. It is expected that student will gain a working knowledge regarding computation of taxable income and tax liability pertaining to individuals, H. U. F. and Firms.

1. (a). Basic Concept: Assessee, Types of Assessee, Assessment Year, Previous, Year, Gross Total Income, Total Income, Tax Evasion and Tax Avoidance. (b). Residential Status and Tax Incidence. (C). Exempted Incomes under Section 10. (d). Agricultural Incomes; Meaning, Types, Integration of Agriculture Income with Non-agricultural Incomes.
2. Computation of Income under different heads: (a). Salaries (b). Income from House Property (c). Profit and gains of Business or Profession (d). Capital Gains (e). Income from Other Sources.
3. (a). Deductions from Gross Total Income (b). Set off and Carry forward of Losses (c). Assessment of Individual, HUF and Firm.
4. (a). Filing of Returns (b). Permanent Account Number (c). Rebates and Reliefs.
5. (a). Income of other Persons included in assessee's Income (b). Advance Payment of Tax (c). Power of Central Board of Direct Taxes (CBDT) and Assessing Officer (d). Tax Planning for an Individual, (e). Best Judgement Assessment, (f). Tax Deduction at Source (TDS).

Suggested Readings:

1. V. P. Gaur & D. B. Narang: Income Tax – Law & Practice; Kalyani Publishres, Ludhiana
2. Ahuja, Girish & Ravi Gupta: Systematic Approach to Income Tax; Bharat Law House, New Delhi
3. H. C. Mehrotra: Income Tax Law; Sahitya Bhawan, Agra
4. Pagore, Dinkar: Law and Practice of Income Tax; S. Chand & Sons, New Delhi
5. V. K. Singhanian: Students' Guide to Income Tax, Taxman Publications (P) Ltd. Delhi
6. Singh R. K. & A. K. Garg: Aaykar Vidhan Aur Lenkhe; Swati Pub., Meerut
7. Singh R. K. & A. K. Garg: Income Tax Law and Accounts; Swati Pub., Meerut

B. Com. – III

Group ‘G’

Paper No. XIV: Corporate Accounting

1. **Share and Debentures:**
 - (a). **Shares:** Issue, Forfeiture and Re-issue of Shares – Share Capital of Company, Classification of Shares, Issue of Shares – at Par, at Premium and Discount; Call in of Arrears and Advances; Forfeitures of Shares, Re-issue of Forfeited Shares, Rights Shares; Employee Stock Option Plan (ESOP); Bonus Shares, Redeemable Preference Shares. Journal Entries, Practical Problems.
 - (b). **Debentures:** Meaning and Types of Debentures; Issue of Debentures; Different Conditions of Issuing Debentures; Redemption of Debenture – Sinking Fund and Insurance Policy, Annual Drawings, Purchase in Open Market, Conversion, Option of the Company. Journal Entries, Practical Problems.
2. **Underwriting:** Meaning; Types of Underwriting; Payment of Commission to Underwriters; Brokerages and Fees of Managers to the Issue, Firm Underwriting; SEBI guidelines for Underwriting; Accounts of Underwriters. Practical Problems.
3. **Profit or Loss Prior to Incorporation:** Ascertainment of Profit or Loss Prior to incorporation, Calculation of Sales Ratio, Weighted Ratio, Practical Problems.
4. **Final Accounts of Companies:** Preparation and Presentation of Final Accounts of Companies; Treatment of Taxation in Preparation of Final Accounts of Companies; Dividend to Shareholders; Managerial Remuneration. Practical Problems.
5. **Amalgamation and Reconstruction of Companies:**
 - (a). **Amalgamation of Companies:** Amalgamation in the Nature of Merger and Amalgamation in the Nature of Purchase; Purchase Consideration; Pooling of Interest Method and Purchase Method; Entries Relating to Realization Expenses. Accounting Entries, Practical Problems.
 - (b). **Reconstruction of Companies:** External Reconstruction and Internal Reconstruction. Accounting Entries, Practical Problems.
6. **Accounts of Holding Companies:** Holding Companies – Its Rational Legal Definition, Advantages and Disadvantages; Consolidated Balance Sheet; Minority Interest, Cost of Control, Pre-acquisition and Post-acquisition Profit. Practical Problems.
7. **Liquidation of Company:** Order of Payment; Preferential Creditors; Contributories; Preparation of Statement of Affairs and Deficiency Account; Liquidator’s Final Statement of Account. Practical Problems.
8. **Accounts of Banking Companies:**
 - a. Accounting Requirement of Banking Companies
 - b. Outline of the Accounting Procedure
 - c. Slip System
 - d. Final Accounts in Form A and Form B – A Detailed Study
9. **Accounts of Insurance Companies:**
 - a. Accounting Requirement of Insurance Companies
 - b. Valuations and Profit Calculation of a Life-Insurance Company

- c. Revenue Account, P&L A/c, P&L Appropriation A/c of Fire and Marine Insurance Companies – Schedule A for Life Insurance and Schedule B for General Insurance
- d. The Balance Sheet (Form B) – A Detailed Study as per IRDA guidelines.

Suggested Reading:

1. V. M. Baijal & D. K. Kulshrestha: Institutional Accounting; PPB, Allahabad
2. Ramendu Roy & Tanushree Roy: Corporate Accounting; PPB, Allahabad
3. S. P. Jain & K. L. Narang: Advanced Accountancy – Vol-II; Kalyani Publishers, Ludhiana
4. S. N. Maheshwari & S. K. Meheshwari: Advanced Accountancy – Vol-II: Vikas Publication House, New Delhi
5. Ashok Sehgal & Deepak Sehgal: Corporate Accounting; Taxman Publications(P) Ltd., New Delhi
6. Singh R. K., S. Shankar & Manu Bhatt: Corporate Accounting; Kitab Mahal, Allahabad

B. Com. – III

Group ‘H’

Paper No. XV: Human Resource Management

1. **Introduction:** Evolution of Human Resource Management (HRM); Concept, Objectives and Functions of HRM; HRM in the Indian Scenario.
2. **Human Resource Planning:** Concept; Process and Needs.
3. **Job Analysis:** Concept and Process.
4. **Recruitment and Selection:** Concept and Process.
5. **Human Resource Development:** Concept, HRD Matrix;
6. **Training and Development:** Concept, Need and Methods.
7. **Organisational Development:** Concepts and Need.
8. **Sustaining Employee Interest: Human Relations: Concepts and Need; Compensation Plans (Salary & Wages Administration); Performance Appraisal Vs. Potential Appraisal**
9. **Management of Industrial Relations:** Concept, Causes for Poor Industrial Relations; Discipline, Causes and Management of Indiscipline.
10. **Industrial Disputes:** Concept, Causes and Prevention of Industrial Disputes;
11. **Leadership:** Concept, Qualities of an Effective Leader, Leadership style.
12. **Motivation:** Concept and Meaning, Factors of Motivation, Theories of Motivation.
13. Human Resource Audit and Research.

Suggested Readings:

1. Ajai Kumar Singhal: Human Resource Management; Sharda Pustak Bhawan, Allahabad
2. A. K. Malviya: Human Resource Management; PPB, Allahabad (Hindi)
3. Archana Chandra & Amita Maxwell: Human Resource Management, Shikha Publication, Allahabad
4. T. N. Chabra: Human Resource Management – Concept and Issues; Dhanpat Rai & Co., Delhi
5. Beardmell, Ianad Holden, Len: Human Resource Management; Mc Millan Ltd. Landon
6. Dessler, Gary; Human Resource Management; Printice Hall, New Delhi
7. Singh R. K. & Singh Amit: Manav Sansadhan Prabandh; Astha Pub., Allahabad

B. Com. – III

Group ‘H’

Paper No. XVI: Marketing Management

1. Introduction:

Marketing – Concept, Functions and Importance.

Marketing Management – Concept, Objectives, Functions and Significance.

2. Product Planning & Development:

Definition, Classification of Product, Stages of Product Life Cycle (PLC) and Factors affecting PLC.

Product Planning – Genesis and Importance of Product Planning in Marketing.

Product Development: Meaning, Principle of Product Development, Stages of New Product Development and Factors affecting development of New Products.

3. Pricing:

Meaning, Objectives, Price Policies and Strategies and Methods of fixing prices.

4. Channels of Distribution:

Meaning, Functions, Distribution Systems and Factors affecting choice of channels of distribution.

Wholesaler and Retailer - Concept, Functions and Services.

New Retailing System

5. Promotional Tools:

Promotion Mix: Personal Selling, Sales Promotion.

Advertising: Meaning, Objectives, Media of Advertising; Factors affecting Media Selection decision, Publicity.

6. Marketing Research:

Meaning, Objectives, Types, Advantages and Limitations.

7. Rural Marketing:

Concept, Significance and Difficulties in Rural Marketing.

Suggested Readings:

1. A. K. Malviya: Marketing Management; PPB, Allahabad (Hindi)
2. Beller & Berkman: Readings in Marketing Management; HPH, Bombay
3. D. Amar Chand, B. Varadharajan: An Introduction to Marketing; Vikas Publishing House Pvt. Ltd., New Delhi.
4. C. B. Memoria, Pradeep Jain & Priti Mitra: Marketing Management; Kitab Mahal, Allahabad
5. Singh R. K. & Amit Singh, Vipran Prabandh; Astha Pub., Allahabad

B. Com. – III

Group ‘I’ Insurance & Risk Management

Paper No. XVII-A: Principles and Practices of Life and Property Insurance

1. Nature of Insurance:

Nature, Characteristics and Scope of Insurance, Kinds of Insurance, Functions of Insurance, Essential Elements necessary for Insurance, Importance of Insurance.

2. Principles of Insurance Contract:

Principles of Co-operation, Principle of Probability, Insurable Interest, Utmost good faith, Indemnity, Subrogation, Causa-Proxima, Contribution and Warranty. Difference between Contract of Indemnity and Life Insurance Contract, Over Insurance and Under Insurance Double Insurance and Re-Insurance.

3. Life Insurance:

Features of Life Insurance, Procedure of taking a Life Insurance Policy, Kinds of Life Insurance Policies, Whole Life policies, Endowment policies and Term policies, Annuities.

4. Policy Conditions:

Conditions relating to commencement of Risk, Riders, Conditions of Premium, Conditions relating to continuation of policies, Nomination and Assignment, Paid-up Value, Surrender Value.

5. Insurance Premium:

Types of Premium, Factors affecting the premium of Life Insurance policies, Methods of premium computation, Natural Premium Plan, Level Premium Plan, Mortality Table, Sources of Mortality information and construction of mortality tables.

6. Valuation, Surplus and Bonus:

Objects of valuation, Sources of surplus, Bonus and its kinds.

7. Settlement of Claims under Life Insurance Policies:

Procedure for settlement of maturity claims, Procedure for death claims.

8. Fire Insurance:

General Information relating to Fire Insurance, Need for Fire Insurance, Scope of Fire Insurance, Physical and Moral Hazards in Fire Insurance, Fire Insurance Contract: Principles, Difference between Fire and Life Insurance Contracts, Procedure of taking a Fire Insurance Policy.

9. Fire Policies and Its Conditions:

Types of Policies, Fire Policy Conditions, Procedure of Settlement of Claims under Fire Insurance.

10. Marine Insurance:

Classification of subject matter of Marine Insurance, Marine Insurance Contract: Its essential Characteristics, Express and Implied warranties under Marine Insurance.

11. Marine Insurance Policies and Conditions:

Types of Marine Policies, Marine Insurance Policy conditions.

12. Marine Losses:

Types of Marine Losses, Total Loss, Partial Loss, Particular Average, General Average, Difference between Particular Average and General Average, Salvage Charges, Particular Charges, Settlement of Claims in Marine Insurance.

Suggested Readings:

1. M. Motihar: Principles and Practice of Insurance; Sharda Pustak Bhawan, Allahabad
2. M. N. Mishra: Insurance Principles and Practice; S. Chand & Co. Ltd. New Delhi
3. M. Arif Khan: Theory and Practice of Insurance; Educational Book House, Aligarh.
4. Singh, R. K. & Keshav Shyam: Bima Ke Tatva; PPB, Allahabad
5. Singh R. K., Keshav Shyam & A. Singh: Bima Ke Siddhant Evam Jokhim Prabandh; Astha Pub., Allahabad

B. Com. – III

Group 'I' Insurance & Risk Management

Paper No. XVII-B: Insurance Law, Salesmanship & Risk Management

1. Basic Insurance Contract, Principles of Contract affecting Insurance, Difference between Insurance Contract and General Contract.
2. **Present Insurance Law in India:** A Brief study of
 - (i) The Insurance Act, 1938
 - (ii) The Life Insurance Corporation Act, 1956
 - (iii) The Insurance Regulatory and Development Authority Act, 1999
3. **Insurance Salesmanship:** Reasons for Selling Insurance, Obtaining prospects: Selling tactics, Essentials for a successful Insurance Salesman, Canvassing, Arguments for Insurance, Objections to Insurance and recommendations for reforms.
4. **Insurance Agent:** Qualifications, Training, Functions, Disqualifications, Rights of an Insurance Agent, Termination of Agency, Working of an Insurance Agent, Insurance Agent's Service regarding
 - (i). Age admission; (ii). Policy holders' servicing; (iii). Nomination and Assignment; (iv). Alterations maturity
5. **Branch Manager:** Appointment Qualifications, Training, Duties, Responsibilities and Functions, Role of Branch Manager, Conduct and Control of Business relating to the Branch.
6. **Development Officer:** Appointment, Training, Functions, Powers, Duties, Control of activities.
7. **Risk Management:** Meaning of Risk, Nature and Sources of Risk, Basic categories of Risk, Types of Risk: (i). Pure Risk; (ii). Speculative Risk Management of Risks, Objective of Risk Management, Scope of Risk Management.
8. **Risk Management Process:** Risk Analysis, Risk Control, Risk Financing, Risk Manager's role and responsibilities.
9. **Insurance and Risk Management:** Basic characteristics – Pooling of Losses, Risk Transfer, indemnification. Elements of Insurance Risk, Insurance as a Risk Management Tool. Selection of Insurance Coverages, Selection of an Insurer, Negotiation of terms, Periodic review of Insurance program.

Suggested Readings:

1. P. K. Gupta: Insurance and Risk Management; HPH, Mumbai
2. Harrington, Scolt, E. and Niehans, Gregory R.: Insurance and Risk Management; McGraw Hill Book Co., New York
3. Singh R. K., Keshav Shyam & A. Singh: Bima Ke Siddhant Evam Jokhim Prabandh; Astha Pub., Allahabad

B. Com. – III

Group 'J': Banking and Foreign Exchange Paper No. XVIII – A: Banking Law and Practices

1. **Bank-Customer Relationship:** Definition of Customer, Bank Customer Relationship and its special features, Termination of the relationship, Bank Pass Book.
2. **Customer Accounts:** Opening of Account, Operation of Account, Special Customers of a Bank-Minor, Married Women, Lunatic, Drunkard, Joint Accounts, Partnership Firms, Joint Stock Company and Trustees.
3. **Negotiable Instruments Act 1881:** Negotiable Instruments: Promissory Note, Bill of Exchange and Cheque. Endorsement, Crossing, Payment and Collection of Cheques: Statutory Protection granted to the Banker.
4. **Employments of Bank Funds:** Cash Reserve and other Non-Earning Assets, Earning Assets: Money at Call and Short Notice, Investment, Loans and Advances, Discounting of Bill.
5. **Modes of Securing Advances:** Personal Security, Guarantee and indemnity and Collateral Securities: Lien, Pledge, Mortgage and Hypothecation.
6. **Securities of Advances:** General Principles for secured advances, Types of Collateral Securities – Stock Exchange Securities, Goods, Documents of Title of Goods, Life Insurance Policies, Immovable Property, Fixed Deposit Receipt, Book Debts.
7. **Banking Regulation Act:** Bank License – Issue, Suspension and Revocation, Inspection of Bank Offices, Branch Expansion, Bank Books, Records and Returns, Bank Accounts and Audit.
8. **Norms of Bank Financing:** Brief study of the recommendations of Tandon Committee, K. Kannan Committee. Bank Financing in the Liberalised regime.
9. **Special Banking Problems in India:** Banking efficiency, Bank Frauds, Core Banking

Suggested Readings:

1. S. N. Maheshwari: Banking Law and Practice; Kalyani Publishers, Ludhiana
2. G. K. Varshney: Law & Practice of Banking; Sahitya Bhawan Publications, Agra
3. Gordon & Natarajan: Banking Theory, Law and Practice; HPH, Delhi
4. B. M. L. Nigam: Law and Practice of Banking, Vikas Publication, New Delhi
5. Tannon: Banking Law and Practice

B. Com. – III

Group –: ‘J’ : Banking and Foreign Exchange Paper No. XVIII-B: Foreign Exchange Practices & Problems

1. **Foreign Exchange:** Concept, Need, Difference between Foreign Exchange and Normal Transaction.
2. **Documents used in Foreign Trade:** Invoice, Bill of Lading, Bill of Exchange, Insurance Policy, Letter of Credit.
3. **Balance of Trade and Balance of Payments:** Meaning and Differences, Disequilibrium in the Balance of Payments: Causes, Consequences and Remedies.
4. **Mechanism of International Payment:** Instruments of External Payments, Equilibrium Rate of Exchange, Fixed Vs Flexible Exchange Rates.
5. **Foreign Exchange Market:** Operations, Agency arrangement, Spot Exchange, Forward Exchange, Arbitrage Operations, Cover Operations.
6. **Foreign Trade Risks and Insurance:** Political Risks, Commercial Risks, A critical study of the working of ECGC.
7. **Export Credit:** Packing Credits, Shipping Finance, EXIM Bank.
8. **Liberalised Exchange Rate Mechanism (LERM):** Detailed study. Tarapore Committee Report of 2000 and Report II of 2006 on Capital Account Convertibility.
9. Laws and Procedures of Travel Remittances: Inward and Outward.
10. **Non-Resident Accounts:** Procedure, facilities and tax concession available in India.
11. **Arithmetic of Exchange Rate:** Customer’s and Banker’s Calculation of Spot and Forward Rates.

Suggested Readings:

1. Andley and Mattoo: Foreign Exchange Principles and Practice; S. Chand & Sons, New Delhi
2. Jeevanandam: Foreign Exchange; S. Chand & Sons, New Delhi

B. Com. – III

Group “K” Financial Market Analysis

Paper No. XIX-A: Stock Market Operation

1. Indian Securities Market – Brief History, Origin, Structure, Size, Popular Indexes – Sensex, Nifty.
2. Stock Exchange in India – Introduction, and functions, Listing Guidelines. Bombay Stock Exchange (BSE), National Stock Exchange (NSE), Over The Counter Exchange of India (OTCEI).
3. Investor Protection and Regulation: Role of SEBI in Indian Securities Market – Origin, Function & Development
4. Depositories – Basics, Benefits, Number of Depositories, How to Operate Depositories and Services Provided.
5. Role of Mutual Fund in Capital Market – Concept, Mutual Fund Industries in India, Types of Scheme, Advantages and Drawback, Organisation, Important Term in Mutual Fund.
6. Portfolio Management Services – Meaning, Portfolio Manager, Working of Portfolio Management.
7. Primary Market – Overview, Types of Issues – IPO and FPO, Benefits and Drawback.
8. Investment Guidelines for Capital Market, Credit Rating in India.
9. Factors Affecting Share Prices
10. De-mat Account.

Suggested Readings:

1. G. Ramesh Babu: Indian Financial System; HPH, New Delhi
2. Vasant Desai: The Indian Financial System and Development; HPH, New Delhi
3. V. A. Avadhani: Investment and Securities Market in India; HPH, New Delhi
4. H. R. Machirajn: Indian Financial System; Vikas Publications

B. Com. – III

Group ‘K’ Financial Market Analysis

Paper No. XIX-B: Security Analysis and Portfolio Management

1. **Security Analysis:** Basic Ingredients – Investment Styles, Speculation, Short Selling, Trading, Hedging, Arbitrage, Leveraging, Margin Trading, Record Dates and Book Closures, Circuit Band Hitters; ADR and GDR.
2. **Derivatives Trading: (i) Options Trading:** Meaning, Rationale, Calls and Puts, Option Price, Price Changes, Risks of Buying and Selling Options, Benefits of Options for Investments. **(ii) Futures Trading:** Meaning, Rationale, Difference between Futures and Options, Index Futures, Stock Futures, Advantages of Future Index; Swap Deals.
3. **Basis for Company Analysis:** Types of Shares in the Market-Growth Shares, Cyclical Shares, Defensive Shares, Discount Shares, Established and Emerging Blue Chip Shares, Net Financial Results and Profitability; Factors Influencing Earnings (EBIT), Return on Investment, Earnings Per Share, Price-Earning Multiple.
4. **Portfolio Management:** Meaning, Method of Operation, Investment Strategy, Diversification, Risk and Beta Return on Portfolio.
5. **Security Pricing:** Security Valuation, Factors Influencing Valuation, Types of Valuation Models – Book Value, Liquidating Value, Intrinsic Value, Replacement-Value, Constant Growth Model, Single Period Equity Valuation Model.
6. **Disinvestment Management:** Meaning, Rationale, Market Conditions, Factors Influencing Disinvestment, Disinvestment Decision; Stock Market Disinvestment; Fundamental Analysis; Timing of Disinvestment.

Suggested Readings:

1. Preeti Singh: Investment Management Security Analysis & Portfolio Management, HPH, New Delhi
2. M. Ranganathan & R. Madhumathi: Investment Analysis and Portfolio Management; Pearson Education, New Delhi
3. V. Gangadhar & G. Ramesh Babu: Investment Management; Anmol Publication Pvt. Ltd. New Delhi

B. Com. – III

Group ‘L’ Corporate and Industrial Laws

Paper No. XX – A: Company Law and Secretarial Practice

1. **Introduction:** Characteristics of Companies; Lifting of Corporate Veil; Types of Companies including one person Company, small company and producer company; Association not for Profit; Illegal Association; Formation of Company; Promoters, their legal position, pre-incorporation Contract and Provisional Contracts; Registration Procedure, Memorandum of Association, Articles of Association; Doctrine of Constructive Notice and Indoor Management, Prospectus-shelf and red herring prospectus, Misstatement in Prospectus
2. **Share and Debentures:** Allotment and forfeiture of Share, Transmission of Shares, Buyback and Provisions regarding buyback; Issue of Bonus Shares. Issue and Redemption of Debentures.
3. **Management:** Classification of Directors, Women Directors, Independent Director, Small Shareholder’s Director; Disqualifications, Director Identity Number (DIN); Appointment; Legal Positions, Power and Duties; removal of Directors; Key Managerial Personnel, Managing Director, Manager; Meeting of Shareholders and Board; types of Meeting, Convening and Conduct of Meetings, Postal Ballot, Meeting through Video Conferencing, e-Voting, Quorum, Proxy.
4. **Miscellaneous Provisions:** Books of Accounts, Registers; Online Filing of Documents; Dividend Provisions; Secretarial Audit: Appointment, Rotation, and Report. Concept and Modes of Winding Up; National Company Law Tribunal (NCLT); Special Courts.
5. **Company Secretary:** Definition, Qualification, Position, Rights and Duties, Statement on Corporate Governance, Chairman’s Speech, Director’s Report, Maintaining and Monitoring of Statutory Books / Registers Prescribed under various Provisions of the Companies Act, 2013.

Suggested Readings:

1. G. K. Kapoor: Corporate Laws & Secretarial Practice; Premier Book Company, New Delhi
2. Avtar Singh: Company Law; Eastern Book Company, Lucknow
3. Garg, Chawla & Gupta: Company Law; Kalyani Publishers, Ludhiana (Hindi & English)
4. M. C. Kuchhal: Modern Company Law; Shree Mahavir Book Depot, New Delhi

B. Com. – III

Group ‘L’: Corporate and Industrial Law

Paper No. XX-B: Industrial and Labour Laws

1. The Factories Act, 1948
2. The Industrial Disputes Act, 1947
3. The Trade Unions Act, 1926
4. The Payment of Wages Act, 1936
5. The Minimum Wages Act, 1948
6. The Workmen’s Compensation Act, 1923
7. The Contract Labour (Regulation and Abolition) Act, 1970
8. The Equal Remuneration Act, 1976
9. The Industrial Employment (Standing Order) Act, 1946

Suggested Readings:

1. Taxmann’s: Labour Laws; Tanmann Allied Services (P) Ltd.
2. S. N. Mishra: Labour Laws; Central Book Agency, Allahabad

B. Com. – III

Group ‘M’: Mathematics & Computer

Paper No. XXI-A: Mathematics for Business

1. Functions, Limit, Continuity and Discontinuity, Differentiation of Algebraic and Transcendental Functions. Differentiation from First Principle, Successive Differentiation, Leibnitz's Theorem, Expansion of Functions, Maclaurin's and Taylor's Theorem, Partial Differentiation, Euler's Theorem, Maxima and Minima, Indeterminate Forms.
2. Integral, Reduction Formulae, Integration of Rational, Irrational and Transcendental Functions. Definite Integral. Business Functions Including Cost, Revenue, Demand, Supply and Production Functions. Elasticity of Demand and Supply. Consumer's and Producer's Surplus.
3. Probability and Expected Value. Theorem, Binomial, Poisson and Normal Distribution.
4. Matrices, Inverse and Rank of a Matrix. Determinants, Solution of Linear Equations by Matrix and Determinant Method. Input and Output Analysis.
5. Linear Programming: Graphic and Simplex Methods.

Suggested Readings:

1. D. C. Sancheti & V. K. Kapoor: Business Mathematics, Sultan Chand & Sons, New Delhi
2. J. D. Gupta, P. K. Gupta & Man Mohan: Mathematics for Business Economics, TMH, New Delhi
3. B. C. Mehta & G. M. K. Madnani: Mathematics for Economists, Sultan Chand & Sons, New Delhi

B. Com. – III

Group ‘M’: Mathematics & Computer

Paper No. XXI-B: Computer Applications

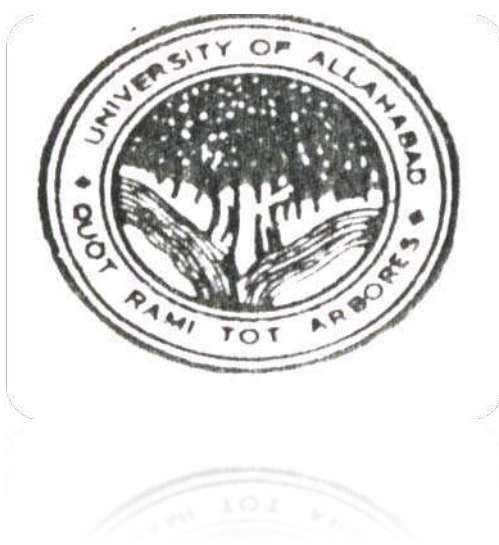
- 1. Computer Networks & Network Security:** (a) Networking Concepts – Need and Scope, Benefits, Classification: LAN, MAN, WAN, VPN; Peer-to-Peer, Client Server, Components – NIC, Router, Switch, Hub, Repeater, Bridge, Gateway, Modem, Network Topologies – Bus, Star, Ring, Mesh, Hybrid, Architecture: Token Ring, Ethernet Transmission Technologies and Protocols – OSI, TCP/IP, ISDN etc., Network Operating System; (b) Local Area Networks – Components of a LAN, Advantages of LAN; (c) Client Server Technology, Limitation of Single user systems and need for Client Server Technology, Server – Database, Application, Print Server Servers, Transaction servers, Internet servers, Mail, Servers, Chat servers, IDS, Introduction to 3-tier and “n” tier architecture (COM, COM+); (d) Data centres: Features and functions, Primary delivery centre and disaster recovery site; (e) Network Security, Need; Treats and Vulnerabilities; Security Levels; techniques.
- 2. Computer Software:** Application Software – Financial Accounting, Payroll, Inventory; Specialized Systems – Enterprise Resource Panning (ERP), Artificial Intelligence, Expert Systems, Decision Support Systems – An Overview.
- 3. Data Base Management Systems:** (a) DBMS Models and Classification: Need for Database, Administration, Models, DML and DDL (Query and Reporting); Data Dictionaries, Distributed Databases, Object Oriented Databases, Client Server Databases, Knowledge Databases, (b) Backup and Recovery – Backup policy, Backup schedules, Offsite Backups. Recycling of Backups, Frequent Checking of recovery of Backup; (c) Usage of systems Software like program library management systems and tape and disk management systems – features, functionalities, advantages; (d) Data Mining and Data Warehousing – An Overview.
- 4. Internet and other Technologies:** (a) Internet and World-Wide-Web, Intranets, Extranets, Applications of Internet, Internet Protocols, (b) E-commerce – Nature, Types (B2B, B2C, C2C), Supply Chain Management, CRM, Electronic Data Interchange (EDI), Electronic Fund Transfers (EFT), Payment Portal, E-commerce Security; (c) Mobile Commerce, Bluetooth and Wi-Fi.
- 5. Flowcharts and Decision Table:** (a) Programming process, Program Analysis, Flowcharts, Program flowcharts, (b) Types of Decision Tables, Steps in preparing a limited entry decision table, Flowchart for a decision table, Advantages and disadvantages of decision tables.

Suggested Readings:

1. Computer Science and Information Technology – S.S. Khandare, S. Chand & Company.
2. Business Information Systems - Muneesh Kumar, Vikas Publishing House.
3. Information Technology and Computer Applications – Prabir Chakravarty, New Central Book Agency (P) Ltd.

**Department of Commerce and Business Administration
University of Allahabad**

SYLLABUS



Curtailed Syllabus

In light of the minutes of the Examination Committee dated 11/02/2022, the reduced syllabus for the session 2021-22

M. Com. 1st Semester

Full Time Four Semesters

(CHOICE BASED CREDIT SYSTEM)

W.E.F. JULY, 2018

Note: Syllabus shall be effective only for Session – 2021-2022

M.Com. Course Structure and Syllabus

The Programme: It is a regular full time four semesters Master Degree Programme in Commerce, redesigned and updated under the Regulations on Choice based Credit System. The programme requirements include 80 credits (64 credits from core courses, 16 credits from elective courses).

The M.Com. Programme has the following salient features:

- i. Five Core Courses in the First Semester with 20 Credits in total;
- ii. Five Core Courses in the Second Semester with 20 Credits in total;
- iii. Three Core Courses and Two Elective Courses comprising of one Group, in the Third Semester with 20 Credits in total;
- iv. Three Core Courses and Two Elective Courses comprising of one Group, in the Fourth Semester with 20 Credits in total.

The M.Com. – First Semester shall comprise of the following Five Core Courses:

COM – 515	Accounting Theory and Practices	4 Credits
COM – 516	Advanced Business Economics	4 Credits
COM – 517	Business Management	4 Credits
COM – 518	Economic Environment	4 Credits
COM – 519	Business Statistics	4 Credits

The M.Com. – Second Semester shall comprise of the following Five Core Courses:

COM – 520	Management Accounting	4 Credits
COM – 521	Managerial Finance	4 Credits
COM – 522	Business Taxation	4 Credits
COM – 523	Research Methodology	4 Credits
COM – 524	e-Business	4 Credits

The M.Com. – Third Semester shall comprise of the following Three Core Courses and the Elective Groups. Two Courses of One Elective Group shall be elected by the student:

COM – 607	Insurance Management	4 Credits
COM – 608	Security Analysis and Portfolio Management	4 Credits
COM – 609	Banking Reforms and Procedures	4 Credits

Elective Courses: All Courses from any ONE Group.

Finance (F) Group Courses:

COM – 663	Monetary Policy and Reforms	4 Credits
COM – 664	Financing of Micro, Small and Medium Enterprises	4 Credits

Human Resource Management (H) Group Courses:

COM – 665	Skill and Competency Management	4 Credits
COM – 666	Human Resource Planning and Development	4 Credits

Marketing (M) Group Courses:

COM – 667	Theory and Practice of Marketing	4 Credits
COM – 668	Rural and Agricultural Marketing	4 Credits

The M.Com. – Fourth Semester shall comprise of the following Three Core Courses and the Elective Group. Two Courses of One Elective Group shall be elected by the student:

COM – 610	Entrepreneurship and Small Business	4 Credits
COM – 611	Fundamentals of Project Management	4 Credits
COM – 612	Government and Business	4 Credits

Elective Courses: All Courses from the same Group to be opted as in the 3rd Semester.

Finance (F) Group Courses:

COM – 669	Mutual Fund Investments	4 Credits
COM – 670	International Finance	4 Credits

Human Resource Management (H) Group Courses:

COM – 671	Human Resource Policy and Practices	4 Credits
COM – 672	Industrial Relations	4 Credits

Marketing (M) Group Courses:

COM – 673	Sales Management	4 Credits
COM – 674	Advertising Management	4 Credits

Autumn Semester

Course Code: COM – 515 Accounting Theory and Practices

4-0-0-4

Objectives

The course aims at providing to the students the conceptual knowledge of accounting theory and understanding of various Indian Accounting Standards.

Unit - I

Accounting: Historical Perspectives; Approaches to Accounting Theory; Generally Accepted Accounting Principles – Indian and U.S. Perspective; Ethical issues in accounting; Financial Reporting, Internal Control Procedure in Accounting

Unit - II

Accounting Standards: Need, relevance and Applicability, Setting Procedure, Overview of Standards; IFRSs – Need; Arguments for Global Convergence; Ind-AS: An overview and compliance status

Unit - III

Disclosure of Accounting Policies; Valuation of Inventories; Cash Flow Statements; Revenue Recognition;

Unit - IV

Property, Plant and Equipment; Accounting for Amalgamations; Leases.

Suggested Readings:

1. Ravi Kant Miriyala: Accounting Standards Made Easy - Bharat Law House Pvt. Ltd.
2. D.S. Rawat: Students Guide to Accounting Standards-Taxmann, New Delhi
3. D.G. Sharma: Accounting Standards -Taxmann, New Delhi
4. L.S. Porwal: Accounting Theory- TMH, New Delhi
5. Jawahar Lal: Accounting Theory and Practice -Himalaya Publishing House, New Delhi

Autumn Semester

Course Code: COM –516 - Advanced Business Economics

4-0-0-4

Objective:

The objective of this course is to develop ability to apply the concepts, tools, and techniques of Economics in analyzing and interpreting business decisions.

Unit - I

Introduction: Concept, Nature, and Scope of Business Economics; Role and Responsibilities of Business Economist; Significance of Business Economics in Decision Making.

Principles of Business Economics: Opportunity Cost Principle, Incremental Principle, Time Perspective Principle, Discounting Principle, Equi Marginal Principle.

Demand Analysis: Law of demand and Elasticity of demand.

Unit - II

Consumption Analysis: Consumer's Equilibrium; Traditional and Modern Approaches.

Production Analysis: Production Function, Production Laws: Law of Variable proportions and Laws of returns to scale.

Unit - III

Cost Analysis: Cost-Output Relationship, Cost Control and Cost Reduction, Significance of Cost Analysis.

Pricing Analysis: Pricing of Output under Perfect competition, Monopoly, Discriminating Monopoly, Oligopoly, and Monopolistic Competition.

Unit - IV

Factor Pricing: Theories of Distribution, Rent, Wages, Interest, and Profit.

Suggested Readings:

1. G. S. Gupta, Managerial Economics, TMH
2. Joel Dean, Managerial Economics, PHI
3. Baumol, Economic Analysis and Business Decisions.
4. R. L. Varshney and K. L. Maheshwari: Managerial Economics, S. Chand & Sons, Delhi
5. Sharma & Kejrival: Prabhandh Arthshastra

Autumn Semester

Course Code: COM - 517 - Business Management

4-0-0-4

Objective

The objective is to impart a basic understanding of Management; its functions and process; as applicable to business organizations.

Unit - I

Introduction to Management and Organisations

Critical Analysis of Management Theories

Management and Society

Ethical Issues in Management

Social Responsibilities of Business and Corporate Governance

Unit - II

Essentials of Planning

Types of Managerial Plans

Management by Objectives

Decision Making – Its Importance, Process and Types

Unit - III

Nature of Organising

Different Types of Organisational Structures

Authority – Responsibility Relationship

Organisational Climate and Culture

Reinventing Organisations

Unit - IV

Directing and Motivating

Leadership, Approaches and Leadership Styles

Communication Process; Organisational Communication Channels, Barriers and Masseur

Suggested Readings:

1. Wehrich, Cannice and Koontz: Management – A Global Entrepreneurial Perspective
2. Robbins, S. P. and Mary Coulter: Management
3. Stoner, Freeman and Gilbert, Jr.: Management
4. Jain, J. K.: Principles and Functions of Management (English & Hindi)
5. Saxena, S. C: Prabandh Ke Siddhant (Hindi)

Autumn Semester

Course Code: COM – 518 – Economic Environment

4-0-0-4

Objective

The purpose is to provide an awareness of various economic issues and challenges being faced by India in the globalised economy.

Unit - I

Meaning of Environment, Eco-system and Environment; Significance and Elements of Economic Environment; Environmental Protection and Sustainable Development, Factors Affecting Economic Development, Sunrise Sector of India.

Unit - II

Economic Environment of Business:

Economic System; Economic Reforms and Current Government Policies – New Industrial Policy, Fiscal Policy, Monetary Policy and EXIM Policy; Demonetisation, Amalgamation and Merger of Banks; Recapitalisation Plan.

Unit - III

Competition – Meaning of Competition, Salient Features of Competition Act 2002, CCI-Competition Commission of India, CAT- Competition Appellate Tribunal.

Consumerism, Salient features of Consumer Protection Act 1986. Companies Act 2013 and its amendments.

Unit - IV

Institutional Economic Environment

International Collaborative Arrangements and Strategic Alliances; GATT, WTO, TRIPS, TRIMS

Regional Economic Groupings in Practice

Levels of Regional Economic Integration; Regionalism vs. Multilateralism, Structure and Functions of EU, NAFTA, ASEAN and SAARC.

Suggested Readings:

1. Ghosh: Economic Environment of Business
2. Morrison J.: The International Business Environment
3. Mishra & Puri: Economic Environment
4. Ruddra Dutt & Sundaram: Indian Economy
5. Francis Cherunilam: Business Environment
6. D.M. Mithani: International Economics

Autumn Semester

Course Code: COM – 519 – Business Statistics

4-0-0-4

Objective:

The objective of this paper is to acquaint students with the principles of business statistics so that they should be able to use various statistical tools for the analysis of economic and business data.

Unit - I

- a. **Regression Analysis:** Regression Equations, Regression Coefficients.
- b. **Multiple Correlation and Multiple Regression Analysis:** Partial Correlation, Coefficient of Multiple Correlation, Multiple Regression Analysis.

Unit - II

- a. **Theoretical Frequency Distributions:** Binomial, Normal and Poisson Distribution.
- b. **Probability Theory:** Addition and Multiplication Theorems of Probability, Application of Addition Theorem, Multiplication Theorem, Bayes' Theorem.

Unit - III

- a. **Association of Attributes:** Theory of Association, Criterion of Independence, Coefficient of Association, Partial Association, Illusory Association, Consistency of Data, Contingency.
- b. **Chi-square Test:** Methods and Uses.

Unit -IV

- a. **Business Forecasting:** Elements, Importance, Limitations and Theories of Business Forecasting.
- b. **Vital Statistics:** Meaning, Definition, Importance, Utility, Measurements of Mortality, Life Table, Measurement of Fertility, Population Growth.

Suggested Readings:

1. Goode and Hatt: Methodology of Social Sciences Research,
2. Roy, Ramendu, Principle of Statistics, Prayag Pustak, Allahabad
3. Gupta, S. P.: Statistical Methods, Sultan Chand
4. Kothari, C. R.: Research Methodology, New Age Publication, New Delhi
5. Roy, Ramendu: Sankhiki Ke Siddhant , Prayag Pustak Bhawan, Allahabad
6. Shukla & Sahai: Sankhiki Ke Siddhant , Sahitya Bhawan

Spring Semester

Course Code: COM – 520 - Management Accounting

4-0-0-4

Objective

To equip the students with the knowledge Management Accounting and enable them to take managerial decisions and control by using Financial Information in various Business Situations

Unit - I

Introduction: Management accounting: Definition, differences with Financial Accounting and Cost Accounting, Role of Management Accounting, Measurement of cost behaviour.

Unit - II

Analysis and Interpretation of Financial Statements: Ratio Analysis, Comparative Statements, Common Size Statements, trend analysis, Du Pont Control Chart, Mechanism of Cash Flow and Uses of Cash Flow Data in Decision Making.

Unit - III

Marginal Costing Vs. Absorption Costing: Cost Volume Profit (CVP) Analysis, Relevant information and short term decision making: Make or Buy decisions, deciding the Product Mix, deletion of product and services, pricing decisions. Activity Based Costing

Unit - IV

Budget and Budgetary Control: Preparing the Master Budget and Functional Budgets, Cash Budget, Flexible budgets, Preparing the Master Budget and Functional Budget, Zero Base Budgeting; Performance Budgeting.

Suggested Readings:

1. Khan and Jain: Management Accounting, THM Horngren, C. J.: Accounting for Management Control
2. Ashish, K. Bhattacharya: Introduction to Financial Statement Analysis, Elsevier Anthony, R. N.: Management Accounting
3. Sharma, R. K. and Gupta, Shashi, K.: Management Accounting, Kalyani.
4. Jawahar Lal: Advanced Management Accounting, HPH
5. Gupta, S. P.: Management Accounting, Sahitya Bhawan
6. Prakash, J. & Rao, N.: Prabandhkiya Lekhankan, Prayag Pustak Bhawan
7. Gupta, S. P.: Prabandhkiya Lekha Vidhi, Sahitya Bhawan.
8. Singhal, A. K.: Cost Accounting – A Multidimensional Approach, Prayag Pustak Bhawan, Allahabad

Spring Semester

Course Code: COM – 521 – Managerial Finance

4-0-0-4

Objective

The objective is to provide conceptual knowledge of the tools of financial analysis and management. It aims at helping the students develop skills to make financial decisions in business situations.

Unit - I

Managerial Finance, Evolution of Managerial Finance, and Financial Goal of the Firm: Profit maximization vs. Wealth Maximization, Emerging role of Finance Manager.

Valuation of Bonds, Preference Share and Equity Shares.

Unit - II

Capital Budgeting: Features and Techniques:

Valuation of Projects under conditions of certainty: Accounting Rate of return,

Pay Back Period Method, Net Present Value Method, Benefit –

Cost Method, Internal Rate of Return Method, and Comparative Analysis of various Methods.

UNIT - III

Evaluation of Projects under Conditions of Uncertainty: Methods of incorporating risk:

Conventional techniques and statistical techniques: Risk Adjusted Discount Rates, Certainty Equivalents, Sensitivity Analysis, Probabilistic, Decision Tree Method, Capital Rationing.

Unit - IV

Cost of Capital: Cost of Debt and preference, Cost of Equity, Cost of Retained Earnings, WACC, Factors affecting WACC.

Capital Structure Theories: Net Income Approach, Net Operating Income Approach and MM A approach; Capital Structure Decisions: EBIT-EPS analysis; Leverage- Operating, Financial and Combined.

Suggested Readings:

1. Khan & Jain: Financial Management, Tata McGraw Hill, New Delhi
2. I.M. Pandey: Financial Management, Vikas Publishing House, New Delhi
3. Prasanna Chandra: Financial Management, TMH, New Delhi
4. J. C. Van Horne: Financial Management and Policy, Printice Hall of Hall.
5. S. C. Kuchhal: Financial Management, Chaitanya Publishing House.
6. V. K. Bhalla: Financial Management and Policy, Anmol Publications.
7. R. P. Rustagi: Financial Analysis and Financial Management, Sultan Chand & Sons

Spring Semester

Course Code: COM – 522 – Business Taxation

4-0-0-4

Objective

The objective of this course is to provide working knowledge of Direct and Indirect Taxes concerning the business.

Unit - I

Profit and Gains from Business and Profession and Tax Planning: Expenses, Depreciation and Deductions under the Income Tax Act, 1961.

Capital Gains and Tax Planning: Transfer, Timing, Investment, Sale of Depreciable Asset under the Income Tax Act, 1961.

Unit - II

Tax implication under the Income Tax Act, 1961:

Special Tax Provisions Relating to Backward Areas

Tax Issues Relating Demerger

Tax Planning and Amalgamation

Conversion of Firm into Company – Tax Considerations

Conversion of Firm into Limited Liability Partnership – Tax considerations.

UNIT - III

GST Act, 2017: Basic Concepts:

Meaning of Goods and Services, Input Tax Credit, Place of Business, Place of Supply, Reserve Charge, exempted Goods, Various Rate of Taxes, Benefits of GST.

Unit - IV

GST Act, 2017: Composition Levy and Registration:

Composition Levy: Meaning of Composition Levy, Rates of Levy, Payment of Tax, Return, Penalty and Fines.

Registration: Procedure, Compulsory Registration, Cancellation and Revocation of Registration.

Suggested Readings:

1. Dr. Girish Ahuja & Dr. Ravi Gupta: Practical Approach to Income Tax, Bharat Law House Pvt. Ltd., New Delhi.
2. V. S. Datey: Indirect Tax, Taxman.
3. Dr. S. P. Goyal: Direct Tax – Planning and Management, Sahitya Bhawan Agra.

Spring Semester

Course Code: COM – 523 - Research Methodology

4-0-0-4

Objective

The objective is to equip the students with the basic understanding of research methodology and to provide an insight into the application of modern tools of analysis and interpretation.

Unit - I

Introduction: Meaning, Objectives and Types of Research, Theory and Facts and their Relationship,

Stages in Research Process:

- (a) Problem Identification, Definition and Formulation,
- (b) Hypothesis: Concept, Purpose, Types, Formulation
- (c) Review of Literature

Unit - II

Research Design: Components and Types of Research Design, Qualities of a Good Research Design.

Research Methods – Case Study Method, Experimental Method, Observation Method, Survey Methods.

Unit - III

Primary and Secondary Data: Primary Data - Nature, Sources, Advantages and Limitations.

Methods of Data Collection: Means and Issues in obtaining Primary Data – Census Method, Sampling method – Advantages and Limitation, Types and Size; Schedules, Questionnaires: Types and Design Interview and Observation.

Unit - IV

Measurement and Scaling:

- a. Measurement: Concept, Need, Process
- b. Reliability
- c. Validity
- d. Scaling: Procedures and Techniques

Sampling Design: Sampling Theory, Designs and Issues; Sampling Size; Sample Method – Probability and Non-probability Sampling.

Suggested Readings:

1. Goode and Hatt, Methods in Social Research
2. Tanushree Roy & Ramendu Roy: Shodh karyapranali, Pravalika publications, Allahabad (Hindi)
3. Ramendu Roy & S. Banerjee: Fundamental of Research Methodology, Kitab Mahal, Allahabad
4. Kothari, C. R., Research Methodology, New Age Publication, New Delhi

Spring Semester

Course Code: COM – 524 – e Business

4-0-0-4

Objective

To develop awareness of application of the technology in today's business world.

Unit - I

Digital technology and business, business process management, competitive advantage through digital technology, Career in digital age, IT architecture, data management and governance, cloud computing, data centers and cloud computing, cloud service delivery models.

Unit - II

Data management leading to business intelligence, DBMS, big data analytics, data and text mining, business intelligence, digital Networks and Ethical Issues – Data Networks, IP Addresses, and APIs, Wireless Networks and Mobile Infrastructure, Collaboration and Communication Technologies, Sustainability and triple bottom line.

Unit - III

Internet technologies - Using Search Technology for Business Success, Organic Search and Search Engine Optimization, Pay-Per-Click and Paid Search Strategies, A Search for Meaning—Semantic Technology, Recommendation Engines, Social Media – strategies and communities, engagement, monitoring, media failures and lessons learned.

Unit - IV

Tactical and Operational Support Systems - Solving Business Challenges at All Management Levels, Manufacturing, Production, and Transportation Management Systems, Sales and Marketing Systems, Accounting and Finance Systems, Human Resources Systems and Ethics, Strategic Technology and Enterprise Systems - Enterprise Systems, Enterprise Social Platforms, Enterprise Resource Planning Systems, Supply Chain Management Systems, Customer Relationship Management Systems.

Suggested Readings:

1. Turban, Efraim, McLean, Ephraim, Wetherbe, James, Information Technology for Management, Wiley.
2. Rainer, Rex Kelly, Turban, Efraim, Potter, & Richard E., Introduction to Information Systems: Supporting and Transforming Business, Wiley.
3. Laudon, Kenneth C., & Laudon, Jane Price, Essentials of Business Information Systems, Pearson Prentice Hall.
4. Morgan, Tony, Business Rules and Information Systems: Aligning IT with Business Goals, Pearson.
5. Nickerson, Robert C., Business and Information Systems, Prentice Hall.
6. Post, Gerald V., & Anderson, David L., Management Information Systems: Solving Business Problems with Information Technology, Tata McGraw Hill.
7. O' Brien, James A., Management Information Systems, Tata McGraw-Hill.

Autumn Semester

Course Code: COM – 607 – Insurance Management

4-0-0-4

Objective

The Course objective is to familiarize students with the operations and methodology followed by Insurance Companies in India. Importantly to propagate recently launched Insurance Schemes, particularly the schemes launched by the Hon'ble Prime Minister.

Unit – I: The Insurance Policy

Components of the Policy, The Heading, The Preamble, Schedule, The Insuring Clause, Exclusions, Excluded Perils, Un-insurable Perils; Policy Conditions: Express and Implied Conditions, Notice, Proof and Appraisal of Loss, Cancellation of Policy, Pro-rata Clause, Renewals, Non-payment of Premiums, Issue of Policy, Lost Policies, Insurance lapses.

Unit – II: Underwriting the Risk

Factors considered for Selection of Risk, Insurance of Sub-Standard (DIVYANG) Lives, Factors Contributing to Sub-Standard Lives, Methods of Treating Sub-Standard Risks.

Unit – III: Schemes of Insurance : Hon'ble Prime Minister's Initiative

A Detailed Study of:

Pradhan Mantri Suraksha Bima Yojana

Pradhan Mantri Fasal Bima Yojana

Pradhan Mantri Jeevan Jyoti Bima Yojana

Unit – IV: Health Insurance

Hon'ble Prime Minister's Perspective – Health Insurance – Jeevan Arogya, Functioning of Third Party Administrators, IRDA Regulations for TPAs, Mediclaim – Terms and Conditions.

Suggested Readings:

1. Huebner, S. S.: Life Insurance, Appletion – Century-Crofts, Inc (NY)
2. Khan, Arif M.: Theory and Practices of Insurance, Educational Book House, Aligarh
3. Motihar, M.: Principle and Practices of Insurance, Sharda Pustak Bhawan, Allahabad

Autumn Semester

Course Code: COM – 608 - Security Analysis and Portfolio Management

4-0-0-4

Objective

The objective of this course is to impart knowledge to students regarding the theory and practice of Security Analysis and to give the students an in-depth knowledge of theory and practice of Portfolio management.

Unit – I

Introduction: Concept, Meaning, Nature and Scope of Security Analysis, overview of Security Market, Various Approaches to Investment Decisions; Investment Process.

Unit – II

Fundamental Analysis: Meaning and Scope of Fundamental Analysis; Features and Impact of Economic Indicators and Industry Level Factors; Company Analysis.

Technical Analysis: Meaning and Significance of Technical Analysis; Technical Analysis vs. Fundamental Analysis; Tools & Techniques of Technical Analysis.

Unit – III

Efficient Market Hypothesis: Weak, Semi-strong and Strong Market; Testing of Different Forms of Market Efficiency and their Significance.

Portfolio Analysis: Portfolio Risk and Return, Effects of combining securities Markowitz Model- Return optimization.

Unit - IV

Single Index Model - Sharpe's Optimization Solution, Capital Asset Pricing Model (CAPM) - Capital market line, Security market line; Risk free lending and borrowing,

Suggested Readings:

1. Fischer, Donald E. and Jordan, Ronald J.: Security Analysis and Portfolio Management, PHI, New Delhi.
2. Bhalla, V. K.: Investment Management – Security Analysis and Portfolio Management, S. Chand, New Delhi
3. Alexander, Gordon J. and Sharpe, William F.: Fundamentals of Investments: Englewood Cliffs, Prentice Hall Inc, New Jersey.
4. Pandian, Punithavathy, Security Analysis and Portfolio Management, Vikas Publication.
5. Elton, Edwin J and Gruber, martin J. : Modern Portfolio Theory and Investment Analysis, johan Wiley, new york
6. Chandra ,P. : Investment Analysis & Portfolio management, Himalaya Publication New Delhi.
7. Khatri, Dhanesh., Security Analysis and Portfolio Management, Macmillan, New Delhi

Autumn Semester

Course Code: COM – 609 – Banking Reforms and Procedures

4-0-0-4

Objective:

To develop knowledge pertaining to banking system, its procedural and regulatory framework and recent reforms.

Unit - I

Introduction: Concept of Banking & Bank, Emergence and Development of Banking System, Function of Banks, Importance of banks in the economy, Barriers to well-developed banking system, NPA- concept and Management, Ethics and Corporate Governance in Banks.

Unit - II

Indian Banking System: Structure, History, Organization, objectives, functions and working, Nationalized Banks, Co-operative Banks, RRB'S, Private Sector Banks, Schedule Vs Non-scheduled Banks; Priority Sector Lending.

Unit - III

Banking Procedure: Preparation of voucher, Cash Receipt and Payment Entries, Clearing Inward and outward entries, transfer debit and credit entries, KYC – Concept and documentation, scrutiny of loan application/ documents, operation aspect of Core banking solution environment, Risk Management in Bank -Credit Risk, Liquidity Risk, Market Risk, Operational Risk

Unit - IV

Regulatory Frameworks Related to Banking: Amalgamation of Banking Companies, Special Provision related to Money Laundering under FEMA Act -1999, Debts Recovery Tribunal- Authorities, Procedure and power, SARFAESI, Special Provision of RERA Act, IT Act related to cyber security in digital transaction. Insolvency and Bankruptcy Code – 2016, Banking Ombudsman.

Suggested Readings:

1. Hajela, T.N., Money and Banking- Theory with Indian Banking, Ane Books Pvt. Ltd., New Delhi
2. Principles and Practices of Banking, Indian Institute of Banking and Finance
3. Desai, B., Fundamentals of the Indian Financial System, HPH
4. Verma, A., Indian Monetary System and Banking Reforms, Unistar Books
5. Digital Banking, Indian Institute of Banking and Finance, Taxmann

Autumn Semester

Course Code: COM – 663 Monetary Policy and Reforms

4-0-0-4

Objective

It aims to provide comprehensive knowledge about monetary policy in India and major monetary reforms.

Unit - I

Money and Monetary Policy: Money: Concept, Evolution, Functions; Monetary Policy: Objectives, Role; Monetary Policy Vs. Fiscal Policy; Keynes Theory of Monetary Policy- Investment Multiplier, Marginal Efficiency of Capital and Interest Rate.

Unit - II

Mechanism of Monetary Policy: Monetary Policy Handlers, - RBI, Government; Impact of Monetary Policy on Securities Market and Currency Market; Demand for Money; Supply of Money; Monetary Policy and Bond Market.

Unit - III

Tools of Monetary Policy: Currency Issue Mechanism; Credit Creation; Credit Control; Measures of Credit Control -Quantitative measures- Bank Rate, Open Market Operation, Various Reserve Requirements; Qualitative Measures- Credit Rationing, RBI Guidelines, Moral Suasion, Direct Action; Qualitative v/s Quantitative; Repo Rate and Reverse Repo Rate.

Unit - IV

Monetary Policy and Other Dimensions: Monetary policy & inflation, Monetary policy & Recession, Monetary Policy & Exchange Rate, Monetary Policy and Unemployment, Monetary Policy and Digital Currency, Monetary Policy and Crypto Currencies

Suggested Readings:

1. Tomar, T.S.: Indian Monetary Policy and Economic Reforms, Radha Publication,
2. Venugopal, K.R.: Fiscal and Monetary Reforms in India, I.K. International Pvt. Ltd.
3. Singhai, G.C., Singh, S.K.: Money and Banking, Sahitya Bhavan Publication, Agra.

Autumn Semester

Course Code: COM – 664 – Financing of Micro, Small and Medium Enterprises

4-0-0-4

Objective:

The objective is to give an understanding of micro, small and medium sized enterprises (MSMEs) as important contributors to economic growth and also to guide the students to have in depth knowledge in the field of MSME finance.

Unit - I

Introduction and Role of MSMEs in Indian Economy: Problems of MSMEs; Regulatory Framework – MSME Act 2006; LLP Act; Present policy Framework.

Institutional Framework: Central and State Government (NIMSME, MIESBUD, SIDO, SISI, NSIC, DICs etc) - Financial Institutions & Banks: SIDBI, Commercial Banks, RRBs and Co-op. Banks.

Unit - II

Sources and Methods of Financing MSMEs: Quasi capital, Own money and its relevance in business, Venture Capital, Hybrid Capital; Existing MSME Loan Products and their nature, Common Guidelines/Instructions for Lending to MSME Sector, Factoring.

Credit Risk Management of MSMEs: The credit assessment, Costs and Risks specific to MSME Lending, Risk rating, Follow up, Monitoring and Review of Lending; Role of Credit Guarantee Fund Trust for Micro and Small Enterprises (CGTMSE), Small and Medium Enterprises Rating Agency (SMERA).

Unit - III

Business Development Service Providers: Role & Responsibilities, Sectoral developments, technological Development in MSMEs; Environmental Impact Assessment, Modernization issues (technological and quality up-gradation), R&D, ICT, Technology adoption.

Unit - IV

Clusters & Cluster Development: Concept, Cluster Development Strategy: Strengthening of Linkages, Innovative Product Development, Institutional Capacity Building, UNIDO Cluster Development Programme; Importance of MSME Clusters in India, Cluster Development in India.

Suggested Readings:

1. Micro, Small and Medium Enterprises in India, IIBF, Taxmann.
2. Vasant Desai: Dynamics of Entrepreneurial Development and Management, HPH.
3. M.B. Shukla: Entrepreneurship and Small Business Management.

Autumn Semester

Course Code: COM – 665 – Skill and Competency Management

4-0-0-4

Objective:

The objective of the course is to equip the students with the necessary skills and knowledge required for talent recognition, management, retention and development. It also enables them to learn to identify and develop competencies in employees.

Unit: I

Skill Management: Concept of skill; Concept of talent; Difference between Talent, Skill, and Knowledge; Objectives of Skill and Talent Management; Types of Skills: Hard skills and Soft skills.

Unit: II

Developing Talent and Skills: Need for Skill and Talent Development; Training for skill and talent development: Identification of training needs, Training methods, Evaluating training programmes; Mentoring; Skill obsolescence and Retraining

Unit: III

Skills and Talent Integration: Designing Reward Policy and Strategies; Succession Planning; Career Planning: Process, Career anchors, Career paths

Unit: IV

Managing Competencies: Concept of Competence, Need for Competencies, Competence and performance: competency based performance management; Developing competencies in employees

Suggested Readings:

1. Rao, T.V. (2011). *Hurconomics for Talent Management: Making the HRD Missionary Business-Driven*, New Delhi: Pearson Education.
2. Berger, L. A. and Berger, D. R. (2010). *The Talent Management Handbook*, New Delhi: McGraw-Hill Education.
3. Shukla, R.(2009). *Talent Management: Process of Developing and Integrating Skilled Worker*, New Delhi : Global India Publications.
4. Sanghi, S. (2007). *The Handbook of Competency Mapping: Understanding, Designing and Implementing Competency Models in Organizations*, New Delhi: Sage Response.
5. Kandula, Srinivas R. (2013). *Competency-Based Human Resource Management*, New Delhi: Prentice Hall of India

Autumn Semester

Course Code: COM – 666 – Human Resource Planning and Development

4-0-0-4

Objective:

The objective of this course is to develop a conceptual clarity as well as practical understanding of Human Resource Planning and Development in the organizations. The aim is to give students the insights into various dimensions of evolving effective strategies for human resource planning and development.

Unit- I: Human Resource Planning

Objectives; Process; Significance; Human Resource Forecasting techniques; Skills Inventory; Challenges in Human Resource Planning; Downsizing Plan; Retrenchment; Layoff.

Unit-II: Human Resource Recruitment and Selection

Meaning, Process, Methods; Factors affecting Recruitment; Employer Branding; Selection Process; Selection tests; Interviews.

Unit- III: Measurement Tools in Human Resource Planning

Human Resource Information System; Human Resource Accounting - Concept and Methods; Human Resource Audit.

Unit-IV: Human Resource Development

Concept; Objectives; Significance; Difference between HRM and HRD; Performance Appraisal; Coaching, Employee Engagement.

Suggested Readings:

1. Werner, J.M. and DeSimone, R.L.: Human Resource Development: Cengage Learning India Private Limited
2. Bhattacharya, D.K.: Human Resource Planning. Excel Books, New Delhi.
3. Sen, AK: Human Resource: Development, Planning & Deployment. New Delhi: Asian Books Private Limited. South-Western; International Edition
4. Mcbey, K: Strategic Human Resources Planning. Nelson Canada
5. *K'Sagar and V. B. Patil: Manav Sansadhan Vikas (Human Resource Development). K'Sagar Publications*
6. Arthur, M. : Career Theory Handbook, Englewood Cliff, Prentice Hall Inc.
7. Belkaoui, A.R. and Belkaoui, J.M.: Human Resource Valuation: A Guide to Strategic and Techniques. Greenwood, Quorum Books.
8. Malviya, A. K.: Human Resource Management (Hindi). PPB, Allahabad

Autumn Semester

Course Code: COM – 667 – Theory and Practice of Marketing

4-0-0-4

Objective:

The objective of this course is to provide a conceptual understanding of the subject and to make the student aware about the latest development in the field of Marketing so as to enable them to face the upcoming challenges.

Unit: I

Introduction: Concepts, Functions and Importance of Marketing, Approaches to Study Marketing.

Marketing Mix: Meaning and Elements.

Unit: II

Market Segmentation and Marketing Strategies: Concept, Objectives, Bases and Essentials for Effective Segmentation; Advantages of Segmentation, Segmentation and Marketing Strategies.

Product and Product Development

a. **Product:** Factor Affecting PLC; Marketing Strategies during PLC.

b. **Product Development:** Stages and Factors Affecting Development of New Product; Failure of New Product.

Unit: III

Product Identification: Branding, Packaging, Labeling.

Marketing Research: Objectives and Scope; Procedure and Limitation of Marketing Research.

Marketing Cost: Meaning and Classification; Elements Affecting Marketing Cost; Methods of Reducing Marketing Cost.

Unit: IV

Pricing Policies and Decisions: Meaning; Importance of Pricing in Marketing; Factors Affecting Pricing Decisions.

Marketing Organisation: Meaning and Importance; Principles of Marketing Organisation.

Suggested Readings:

1. Philip Kotler: Marketing Management
2. Philip & Duncan: Marketing Principles and Methods
3. Ramaswamy, V.S. and Namkumari: Marketing Management – Planning Control
4. Donald, S. Tull and Well, I.Z. Hawkins: Marketing Research
5. Johri, Lalit, M.: International Marketing – Strategies for Success
6. Malviya, A.K.: Marketing Management (Hindi), PPB, Allahabad
7. Sharma, D.C. & Baijal, V.M.: Marketing Management (Hindi)

Autumn Semester

Course Code: COM – 668 – Rural and Agricultural Marketing

4-0-0-4

Objective:

The objective of this course is to provide Conceptual knowledge of Rural and Agriculture Marketing among the students and to make them aware about recent trends in Agri-marketing.

Unit: I

Rural Marketing: Concept; Features; Significance; Strategies to Approach Rural Markets of India; Difficulties in Rural Marketing.

Unit: II

Rural Market: Meaning; **Rural Market Segmentation** – Demographical, Occupational and Sociological, Rural Marketing Initiatives taken by Corporate Sectors in India: HUL, ITC, DABAR and PATANJALI.

Unit: III

Agricultural Marketing: Concept; Classification of Agricultural Goods; Characteristics and Marketing Methods of Agricultural Products in India; Defects of Agricultural Marketing in India, Steps for Improvement.

Cooperative Marketing: Meaning; Need; Objectives; Features of Agricultural Marketing Co-operatives; Structure; Functions; Advantages and Limitations.

Unit: IV

Marketing of Agricultural Inputs: Concept, Classification of Agricultural Inputs, Marketing of Seeds, Marketing of Fertilizer, Marketing of Pesticides.

Marketing of Agricultural Produce: Wheat & Paddy Marketing, Sugarcane Marketing.

Suggested Readings:

1. Kolkarni: Agriculture Marketing in India.
2. Hussain: Agriculture Marketing in India.
3. Rura Ashok: Indian Agricultural Economics; Myth and Reality.
4. Gopala Swamy, T.P.: Rural Marketing Environment.
5. Kohls: Marketing of Agriculture Produce.
6. C.B. Mamoria & Dr. B.B. Tripathi – Agricultural Problems of India.
7. Acharya & Agarwal - Agricultural Marketing in India.

Spring Semester

Course Code: COM - 610 - Entrepreneurship and Small Business

4-0-0-4

Objective

The objective of the paper is to acquaint students with the principles of Entrepreneurship and its role in industrial development of a country and to impart knowledge of the basic problems of management of small business units with special reference to India.

Unit – I

Entrepreneurship:

Concept of Entrepreneurship; Functions of an Entrepreneur; Quality of a successful Entrepreneur; Emergence of Entrepreneurial Class; Theories of Entrepreneurship.

Unit – II

Entrepreneurship Development:

Environmental factors affecting Entrepreneurial Development; Entrepreneurial Development Programmes and their Critical Evaluation; Government Policies and their Effect; Role of Government and other Institutions.

Unit – III

Management of Small & Medium Enterprises (SMEs):

Role of SMEs in Indian Economy; Problems of SMEs in India; Institutional support; Various Issues related to Production, Marketing and Finance of SMEs.

Unit – IV

Management of Small & Medium Enterprises (SMEs):

Human Resource Management of SMEs – Recruitment, Training and Wage Administration; Sickness and Turnaround – Meaning, Causes, Prevention and Remedies, Role of BIFR.

Suggested Readings:

1. Vasant Desai: Dynamics of Entrepreneurial Development and Management, HPH
2. Zimmerver & Scarborough: Essential of Entrepreneurship and Small Business Management, PHI
3. S. S. Khanka: Entrepreneurship and Small Business Management, S. Chand & Sons
4. Nandan: Fundamentals of Entrepreneurship Management, PHI
5. M. B. Shukla: Entrepreneurship and Small Business Management, Kitab Mahal
6. S. B. Srivastava: A Practical Guide to Industrial Entrepreneurs, S. Chand & Sons

Spring Semester

Course Code: COM – 611 – Fundamentals of Project Management

4-0-0-4

Objective

To equip the students with understanding of project fundamentals, formulation, evaluation and implementation.

Unit - I

Basic Concept:

Concept of a Project, Categories of Projects, Project Development Cycle. The Concept of Project Management, Tools & Techniques of Project Management. Forms of Project Organisations.

Unit – II

Project Formulation:

Project Identification, Project Formulation and Preparation : Market and Demand Estimation, Market Survey, Demand Forecasting, Technical Factors – Material Inputs, Technology, Production, Plant Capacity, Location and Site, Civil Works, Charts Layouts, Work Schedule.

Unit – III

Financing and Project Appraisal Criteria:

Means of Financing, Estimates of Cost, Financial Projections; Project Appraisal - Payback Period, ARR, NPVI, IRR and Social Cost-benefit Analysis, and Risk Analysis.

Unit – IV

Process of Project Appraisal:

Technical, Economic, Financial, Legal and Social Appraisal of the Industrial Projects, Problems Arising due to Rate of Discount, Wage-rates, Exchange rates, Treatment of Taxes, Social Cost-benefits, Treatment of Risk and Uncertainty, Sensitivity Analysis and Probability Approach

Suggested Reading:

1. Prasanna Chandra, Project : Preparation, Appraisal, Budgeting and Implementation
2. P.K. Matto, Project Formulation in Developing Countries
3. Chitale, Project Viability in Inflationary Condition
4. Dass Gupta & Sen, Guidelines for Project Evaluation
5. Cleland and Kind, System Analysis and Project Management
6. Nagendra P. Singh, Emerging Trends in Entrepreneurship Development
7. D.K. Jain, Project Planning and Appraisal in Planned Economy
8. M. Mohsin, Project Planning and Control

Spring Semester

Course Code: COM – 612 – Government and Business

4-0-0-4

Objective:

To acquaint the students with current Economic and Social Reforms undertaken by the Government to lift trade and industry.

Unit - I

Make in India:

Program, policies, Process, Plan, Progress, Key Sectors, Opportunities, Key Reforms, Ease of doing business, Key Examples.

Unit - II

Start Up India:

Definition: Start Up, Central and State Policy and Tax Incentives, Registering a Company in India, Service and Benefits, Start Up India Action Plan, Incubators, Initiatives by Banking and Financial Institution, MUDRA Bank Scheme, Start Up India Hub, Innovation and Business, Success Stories.

Unit - III

Stand Up India:

Scheme and Guidelines: Bankers, Applicant and Handholding Agencies, Subsidy Schemes for SC, ST and Women, Stand Up India Ecosystem, Deen Dayal Upadhyaya Gram Jyoti Yojna, Saubhagya Yojana, Ujjawala Yojana.

Unit - IV

Skill India:

Skill Development and Entrepreneurship, Government Initiatives and Policies, National Policy on Skill Development and Entrepreneurship, Pradhan Mantri Kaushal Vikas Yojana (PMKVY), Directorate General of Training (DGT), National Skill Development Corporation (NSDC), National Institute of Entrepreneurship and Small Business development (NIESBUD).

Suggested Reading:

1. Status Report Start Up India
2. Annual Report by Ministry of Skill Development and Entrepreneurship (English and Hindi)
3. <http://www.makeinindia.com>
4. <http://www.standupmitra.in>
5. <http://www.skilldevelopment.gov.in>

Spring Semester

Course Code: COM – 669 – Mutual Fund Investments

4-0-0-4

Objective

To provide elementary and working knowledge to the students about various aspects of mutual funds, so as to empower them to make career in the fast expanding mutual fund industry.

Unit – I

An Overview: Concept, Nature and Features of Mutual Funds; Advantages and Disadvantages of Mutual Fund Investments; Open –Ended Funds and Close-Ended Funds.

Unit – II

Growth / Equity Funds: Diversified Equity Funds, Growth Funds, Index Funds, Sectoral Funds, Dividend Yield Funds; Tax Planning Scheme: ELSS Funds.

Unit – III

Debt / Income Funds: Diversified Debt Funds, High Yield Debt Funds, Assured Return Funds, Gilt Funds, Monthly Income Plan (MIP), Fixed Maturity Plans (FMP).

Unit – IV

Other Funds: Balanced Funds, Money Market / Liquid Funds, Large Cap Funds, Mid Cap Funds, Small Cap Funds; Exchange Traded Funds (ETFs).

Suggested Readings:

1. Jitendra Gala, A. Gala: Guide to Indian Mutual Fund, Buzzing Stock Pub. House, Mumbai
2. Rachna Baid: Mutual Funds and Services, Taxman Pub., New Delhi
3. Mabijs Mank: Mutual Funds: An Introduction to the Core Concepts, John Wiley & Sons (Asia) Pvt. Ltd.
4. Mrudula E., Raju Priya: Mutual Fund Industry in India, ICFAI University Press, Hyderabad
5. Sakaram Sunder: Indian mutual Fund Handbook – A Guide for Industry Professionals and Intelligent Investors, Vision Books Pvt. Ltd. New Delhi

Spring Semester

Course Code: COM – 670 - International Finance

4-0-0-4

Objective

To give the students an overall view of the International Financial System – Instruments and Markets.

Unit – I

International Financial System: Introduction; Elements; Financial Market- Structure, Role, Participants; International Financial Institutions – IMF, World Bank.

Unit – II

International Financial Market Instruments: ADR, GDR, IDR, FCCB; FCEB; External Commercial Borrowing – Concept, Procedure, Documentation; Loan Syndication; Euro Bond; Foreign Bond; Euro Loan;

Unit- III

Balance of Payments and Foreign Exchange Market: BOP – Components; Disequilibrium of BOP – Concept and Significance; Correction of Disequilibrium – Devaluation, Deflation, Exchange Control, Trade Control; Foreign Exchange Market – Features, Participants; Management of Foreign Exchange in India

Unit – IV

Foreign Exchange Rate: Fixed and Floating; Exchange Rate Quotes; Spot and Forward Exchange Rate; Factors affecting Exchange Rate; Determination of Exchange Rate – Balance of Payment Theory and Purchasing Power Parity Theory.

Suggested Reading:

1. Shaprio, Alan. C.: Multinational Financial Management, Prentice Hall, New Delhi
2. Apte, P. G.: International Financial Management, Tata McGraw Hill, New Delhi
3. Buckley, Adrian: Multinational Finance, Prentice Hall, New Delhi
4. Yadav, Surendra S, P. K. Jain and Max Peyrard: Foreign Exchange Markets, Mac Millan, NewDelhi
5. Sharan, V.: International Financial Management, PHI, New Delhi
6. Jeevanandam, C.: Foreign Exchange- Practices, Concepts & Control, Sultan Chand & Sons, New Delhi

Spring Semester

Course Code: COM – 671 - Human Resource Policy and Practices

4-0-0-4

Objective

The contents of this paper are designed in such a way that the students who man the HRM Department in the Corporate World can effectively plan HRM policies and implement them.

Unit - I

HRM in India: HRM environment in India, Human Resource Strategies, Challenges faced by Human Resource Management, Changing Role of HRM in India, Human Resource Information System (HRIS), HR Policies.

Unit - II

Managing Careers: Concept of Career, Career Anchors, Elements and Process of Career Planning, Benefits to an Organisation and Industrial Issues in Career Planning, Career Development Cycle, Career Objectives and the Career Path: Promotion, Transfer; Succession Planning.

Unit - III

Employee Retention: Policy regarding Retention of Employees, Rewards and Incentives: Types of Incentives, Impact of Incentives, Wage Differentials; Fringe Benefits and Social Assistance Schemes: Meaning, Need, Objectives, Components, Recent Trends, Exit Policy.

Unit - IV

Quality of Work Life: Concept, Methods to Improve Quality of Work Life: Flexi Time, Flexi Place, Alternative Work Schedules, Part Time Employment, Compressed Work Week, Job Rotation, Job Enlargement, Autonomous Work Groups, Social – Technical System; Benefit of QWL Programms, Challenges in Implementing QWL Programme.

Quality Circles: Concept, Objectives, Development and Working of a Quality Circle, Problem Solving Techniques in Quality Circles; Brainstorming Sessions, Cause and Effect or Fish Bone Diagrams; Implementing Quality Circle: Issues and Challenges.

Suggested Readings:

1. Gary Dessler & Biju Varkkey: Human Resource Management , Prentice Hall, Delhi
2. Mamoria, C. B. & Ganker, S. V.: Personnel Management: Text & Cases, HPH, Mumbai
3. Singhal, A. K.: Human Resource Management, Sharda Pustak Bhawan, Allahabad (Hindi & English)
4. Malviya, A. K.: Human Resource Management, PPB, Allahabad (Hindi)

Spring Semester

Course Code: COM – 672 – Industrial Relations

4-0-0-4

Objective:

The objective of the course is to help the students comprehend various dimensions of industrial relations in India. It familiarizes the students with the current scenario and various issues in industrial relations. The course aims at developing skills in students in managing these issues in general and in the Indian context in particular.

Unit: I

Concept of Industrial Relations; Organization of IR in India; Trade Union: Meaning and Functions, Types and Structures of Trade Unions, Problems; Trade Union Act, 1926 - Salient Features

Unit: II

Industrial Discipline; Industrial Conflicts: Nature, Manifestation; Industrial disputes- Nature, Causes of Disputes, Dispute Settlement Machinery; Strikes and Lockouts; Lay-off and Retrenchment

Unit: III

Collective Bargaining: Nature and Process, Grievance Handling- Nature of Grievances, Grievance Handling Procedure; Workers Participation in Management- Forms and Methods

Unit: IV

Labour Welfare - Statutory and Non-statutory Measures; Social Security- Basic Features, Objectives and Need; Factories Act, 1948 - Salient Features

Suggested Readings:

1. Piyali Ghosh and Shefali Nandan: Industrial Relations and Labour Laws. McGraw Hill India
2. Arun Monappa: Industrial Relations. McGraw Hill India
3. SN Mishra: Labour Laws. Kitab Mahal, Allahabad
4. CS Venkataratnam: Industrial Relations, Oxford University Press, New Delhi
5. PRN Sinha, Indubala Sinha, Seema and P. Shekhar: Industrial Relations, Trade Unions, and Labour Legislation, Pearson Education India
6. TA Kochan and H Katz: Collective Bargaining and Industrial Relations, Homewood, Illinois
7. EA Ramaswamy: The Rayon Spinners-The Strategic Management of Industrial Relations, Oxford University Press, New Delhi

Spring Semester

Course Code: COM – 673 – Sales Management

4-0-0-4

Objective:

The objective of this course is to provide a conceptual understanding of the subject and familiarize the students with process of management of sales.

Unit: I

Introduction

Sales Management: Meaning, objectives, Characteristics, Functions and Importance.

Salesmanship: Meaning, Features and Significance. Qualities of a Good Salesman.

Selling Process: Meaning, Stages in Selling Process- Prospecting, Pre-approach, the Approach, Presentation and Demonstration, Handling the Objections, Closing the Sale.

Unit: II

Sales Forecasting and Planning:

Sales Forecasting: Meaning, Factors Governing Sales Forecasting, Steps in Sale Forecasting; Limitations of Sales Forecasting.

Sales Planning: Meaning, Importance and Process.

Sales Territories: Meaning, Objectives, Advantages and Reasons for Revising Sale Territories; Factors Determining size of Sales Territories;

Unit: III

Sales Quota: Meaning and Concepts, Reasons to Fix Sales Quota; Factors Considered while setting sales Quota; Types of Sales Quota, Methods of Setting Sales Quota.

Sales Organisation: Meaning, Objectives and Importance; Types of Sales Organisation.

Sales Manager: Functions, Duties and Qualities.

Unit: IV

Sales Force Management:

Recruitment and Selection: Meaning, Importance, Process, Sources and Methods.

Training and Placement: Meaning, Importance, Objectives and Limitations of Sales Force Training, Contents of a Sound Training Programme, Methods of Sales Training; Sales Force Placement.

Motivation: Meaning and Need for Motivation of Sales Force; Principles and Methods of Motivation of Sales Force.

Suggested Readings:

1. Bolling, C.R.: Sales Management
2. Downing, G.D.: Sales Management
3. Cundiff, Still and Govoni: Sales Management
4. Chunawala: Sales Management
5. Khan, Matin: Sales and Distribution Management
6. Asplev: Hand Book of Sales Management
7. Sales Management: Pradip Kumar Mallik

Spring Semester

Course Code: COM – 674 – Advertising Management

4-0-0-4

Objective:

The objective of this course is to acquaint students with the theory and practice of Advertising and Media Planning in order to enable them to take up the challenges in the World of Advertising and Media.

Unit: I

Advertising: Meaning, Functions, Importance and Features; Social and Economic Aspects; Types; Advertising Objectives; Advertising V/s Personal Selling, Advertising V/s Sales promotion, Advertising V/s Publicity.

Unit: II

Advertising Copy & Layout:

Advertising Copy: Meaning and Objectives; Attributes of an Effective Advertising Copy; Types of Advertising Copy.

Copy Layout: Meaning, Elements and Types of Layout; Principles of Good Layout.

Unit: III

Advertising Effectiveness: Meaning and Objective; Techniques of Testing Advertising Effectiveness.

Advertising Budget: Meaning, Advertising Budget Procedure, Factors Influencing Advertising Budget, Advertising Budget Allocation.

Unit: IV

Advertising Agencies: Meaning, Features, Need and Functions of Advertising Agencies; Selection of Advertising Agency; Modes of Paying the Agency.

Rural Advertising in India; Legal Aspect of Advertising in India; Advertising Standards Council of India (ASCI).

Suggested Readings:

1. Aaker, David A., Batra, Rajiv Mayers, John G.; Advertising Management.
2. Chunawala, S.A.: Foundation of Advertising – Theory & Practice.
3. Sandage & Fryburger: Advertising Theory and Practice.
4. Hall, S. Rolland: Theory & Practice of Advertising.



Lecture List

B.A.-I
2017-18

Department of Economics
University of Allahabad



B.A. PART-I

REVISED SYLLABUS

(FROM 2015-16)

INSTRUCTIONS FOR ALL THE PAPERS

- 1. Q. 1 will be compulsory and based on units I-IV. It will have two parts. Part A shall consist of six multiple choice type objective questions of one mark each. Part B shall consist of four short answer questions of 75-100 words of 3 marks each.**
- 2. Q. 2 to Q. 5 will be long answer questions of 8 marks each.**
- 3. Q. 2 will be from Unit I, Q. 3 will be from Unit II, Q. 4 will be from Unit III and Q. 5 will be from Unit IV. Each Unit will have two questions with internal choice out of which only one question is to be answered.**



PAPER I

MICRO-ECONOMICS

UNIT-I

Nature of Micro Economics and its difference with Macro Economics, Law of Demand and Supply, Market Demand, A brief introduction of Elasticity of Demand. Theory of Consumer's Behaviour. Consumer's Equilibrium, Indifference Curve Analysis. Price Effect, Income Effect and Substitution Effect (Hicks & Slutsky Methods). An Elementary Treatment of Revealed Preference Theory, Consumer's Surplus.

UNIT-II

Production Function: An Elementary Treatment, Laws of Variable Proportions, Returns to Scale, Substitution in Production, Producer's Equilibrium, Elasticity of Substitution. Cost Function, Different concepts of costs: Nominal, Real and Opportunity cost, Cost Curves.

UNIT-III

Nature of Market, Revenue Function, Revenue Curves, Price Determination under Perfect Competition, Monopoly, Discriminating Monopoly, Imperfect and Monopolistic Competition-Elementary Treatment.

UNIT-IV

Marginal Productivity Theory of Distribution, Rent: Ricardian & Opportunity Cost Theories, Quasi Rent. Wage: Labour Supply and Demand Theory of Wages, The Marginal Productivity Theory, Interest: The Classical and Loanable Funds Theory, Profit: Schumpeter, Knight and J.K. Mehta.



PAPER II

INDIAN ECONOMY: NATURE AND PROBLEMS

UNIT-I

Nature and Symptoms of Under-development, Indices of Development such as HDI, etc. Main Features of Indian Economy, The Energy and Power Sector in India and its Challenges, India's Foreign Trade: Composition and Direction, Service sector in India and its Performance.

UNIT-II

The Agricultural Sector, Salient Features of Indian Agriculture. Changing Agrarian Structure. Mechanisation of Agriculture, Rural Credit Structure in India, Role of Commercial Banks, Regional Rural Banks, Cooperative Banks, Land Development Banks, Primary Agricultural credit Societies, NABARD in Rural Credit, Rural Unemployment in India.

UNIT-III

Industrial Sector, Objectives of Industrial Development, Categorisation of Industries, Growth and Expansion of Public Sector Enterprises, Development and Expansion of Private Industry, Role and Importance of Cottage and Small Scale Industry. Problems of Industrial Labour in India.

UNIT-IV

Economy of Uttar Pradesh: Salient features. **Demographic features of India's Population, Demographic features of Uttar Pradesh.** Agriculture in Uttar Pradesh: Nature and Problems. Industrial Development in Uttar Pradesh: Nature and Problems, Challenges and Prospects of Exports from Uttar Pradesh.

Gender





PAPER III

TECHNIQUES OF ECONOMIC ANALYSIS

UNIT-I

Approach to Economic Analysis: Micro-Economics and Macro-Economics, Illustrations of Micro and Macro Problems. Nature of Static and Dynamic analysis. Equilibrium Concepts and Types. Functional Relationships in Economics: Demand, Supply, Cost, Revenue, Savings, Income and Investment etc., Illustration from Micro and Macro Economics, Equations: Solution of Simultaneous Linear and Quadratic Equations, Analysis of Market Equilibrium Algebraic and Graphical Solutions. Curves and straight Lines, Rate of change and slope –Economics illustrations, use of Linear and Non- linear functions in economics – market demand, cost and revenue curves etc. nature of parabolic curves. Cost and Revenue curves and related Economics Illustrations

UNIT-II

Rates of Growth: Simple, Compound, proportional, logarithmic and Exponential Elementary idea and interpretation of first and second order derivatives, Maxima and minima (elementary Treatment) Economic Applications of derivatives, marginal revenue Marginal Cost, Elasticity of Demand, Elasticity of Supply, Marginal Propensity to Consume (mpc), Marginal Propensity to save (mps), Capital–output Ratio, Profit maximization and Cost minimization.

Use of Mathematical Tools in Economics Analysis.



UNIT-III

Statistics: Nature, functions, importance; collection of data classification and tabulation; Diagrammatic and graphical representation of data: Bar, Pie, Histogram, Ogive etc. Measures of central tendency. Arithmetic Mean, Weighted Mean, Harmonic Mean Geometric Mean, Median, Mode etc., their relative Merits.

C.S.O. and N.S.S.O. Functions, Organisation Working etc.

Unit-IV

Measures of Dispersion-Range, Quartile/Percentile Deviation, Mean Deviation, Standard Deviation, Coefficient of Variation, Lorenz Curve, Measures of skewness and Kurtosis.

Correlation: Linear Rank, Index Numbers: Nature, Construction, Limitation, Importance, Construction of Index Numbers: Simple, Weighted and Price Relative Methods.



Lecture List

B.A.-III
2017-18

Department of Economics
University of Allahabad



B.A. Part-III

SYLLABUS

INSTRUCTIONS FOR ALL THE PAPERS

- 1. Q. 1 will be compulsory and based on units I-IV. It will have two parts. Part A shall consist of six multiple choice type objective questions of one mark each. Part B shall consist of four short answer questions of 75-100 words of 3 marks each.**
- 2. Q. 2 to Q. 5 will be long answer questions of 8 marks each.**
- 3. Q. 2 will be from Unit I, Q. 3 will be from Unit II, Q. 4 will be from Unit III and Q. 5 will be from Unit IV. Each Unit will have two questions with internal choice out of which only one question is to be answered.**



PAPER - I

ECONOMICS ANALYSIS

UNIT-I

The Theory of Imperfect Competition, Duopoly, Oligopoly, Collusive and Non-collusive Oligopoly, Cournot, Bertrand, Edgeworth, Stackleberg, Chamberlin's Small Group Oligopoly Model, The Kindred Demand Curve, Cartels: Joint Profit Maximization and Market Sharing Cartels.

UNIT-II

Human Value

Monopolistic Competition Models, The Criticism of Marginalist Approach to the Theory of the Firm, Welfare Economics: **The Criteria of Social Welfare**, The National Income Criteria, The Hedonist; The Cardinal Approach to Social Welfare, Pareto Optimality, Kaldor-Hicks Compensation Principle; Bergson's Social Welfare Function.

UNIT-III

Criticism of Keynesian System, Pigou Effect and Wealth Effect. Limitations of the Keynesian Consumption Function and Alternative Specifications (Duesenberry, Friedman-An Elementary Analysis), Hicks-Hansen Elaboration of IS-LM: An Elementary Analysis. Theory of Investment: Concept and Theory of Accelerator; Multiplier-Accelerator Interaction: Hicks and Samuelson's Theory of Trade Cycle (Non-Mathematical Treatment).

UNIT-IV

The Harrod Problem, Nature of Steady State, Neo-Classical Growth Models: Solow, Joan Robinson. Elementary Treatment of General Equilibrium Theory; Input-Output Analysis; Linear Programming.



PAPER II

INTERNATIONAL ECONOMICS

UNIT-I

Basis of International Trade. Theories of International Trade: Adam Smith, Ricardo. J.S. Mill's Theory of Reciprocal Demand. Marshall-Edgeworth Offer Curve, Haberler's Opportunity Cost Theory; Heckscher's Critique of Classical Theory.

UNIT-II

Terms of Trade and Gains from Trade: Kinds of Terms of Trade, Factors Influencing Terms of Trade, Prebisch Singer Model, Relation between Terms of Trade and Gains from Trade. Immiserizing Growth Theory. Balance of Payments: Meaning, Definition, and Illustration: Disequilibrium in BOP

UNIT-III

Exchange Rates: Purchasing Power Parity Theory, Balance of Payments Theory, Fixed and Flexible Exchange Rates, Spot and Forward. Free Trade and Protection, Exchange Control Infant Industry Argument, Instruments of protection: Tariff, Quota and Devaluation, Exchange Control. Measures for correction in BOP.

UNIT-IV

International financial and trade Institutions and RTA's: IMF, IBRD, GATT, UNCTAD, ASEAN, SAARC. FDI: Concept and Importance for developing countries.



PAPER III

INDIA'S ECONOMIC POLICY

UNIT-I

General Objectives of Economic Policy in Developing Countries.

Unemployment and Poverty: A General Overview & Policies

Gender

Population Policy: National Population Policy and Population Policy of Uttar Pradesh.

Environmental Problems & National Environment Policy

UNIT-II

Industrial Policy: Role and Objectives

Industrial Policy of India

Private and Public Sector

Competition Act

Micro, Small and Medium Enterprises Policies

Energy Sector: Problems and Energy Policy

Environment & Sustainability

UNIT-III

Agricultural Policy in India: Objectives and Overview

Community Development Project and Panchayati Raj

Rural Development Programme

Agricultural Price Policy

Food Policy and The Public Distribution System

UNIT-IV

Foreign Trade Policy: Measures for Maintaining Balance of Payments.

Major Programmes of Export Promotion

Exchange Rate Policy

Foreign Direct Investment & Foreign Portfolio Investment

Policies towards Foreign Capital Inflows



PAPER IV

HISTORY OF ECONOMIC THOUGHT

UNIT-I

History of Economic Doctrines: Nature and Importance,
Mercantilism Nature and Characteristics.

Physiocracy.

Classical Political Thinkers and their ideas: Adam Smith, Ricardo,
Malthus, J.S. Mill.

UNIT-II

Utopian Socialism: Thomas Moore, Saint Simon, Pierre Joseph
Proudhon, Robert Owen

Scientific Socialism: Marx and Engles.

The Marginalist Revolution: Jevons, Menger and Walras

UNIT-III

Neo-Classical Thought-Marshall, Wicksell, Pigou, Wiser.
Classical Critique: J M Keynes.

UNIT-IV

Indian Economic Thought: Kautilya,

Early National Economic Thinking: Naoroji, R.C. Dutt.

The Economic Ideas of Gandhi, Nehru, J.K. Mehta, Vinoba Bhave
and B.R. Ambedkar.



PAPER V

MATHEMATICAL ECONOMICS

UNIT-I

Nature of Mathematical Economics, Market Equilibrium: Partial and General.

Elementary Idea of Difference Equations and their uses, i.e Lagged Economic Relationships in Market Equilibrium (Cobweb Model). Concept of Matrices and Determinants and their Applications- Elementary Treatment of Input-Output Model.

UNIT-II

Differentiation of First and Higher Orders and Interpretations- Maxima and Minima and their Application in Economics (eg. Profit, Cost, Revenue, etc.) Convexity, Concavity and Point of Inflexion: concepts and their uses.

UNIT-III

Partial Differential Coefficients, Total Differential Coefficients and their Applications. Homogeneous Functions: Cobb-Douglas Production Function: Concept, Uses and Applications of Optimization. Constrained Maxima and Minima in Economics.

UNIT-IV

Probability: Definition, Addition and Multiplication Theorems. Normal Distribution and its Properties. Simple Integration and its Uses. Elementary Idea of Differential Equations and their Uses: Simple Growth Models. Consumer surplus and Producer's Surplus.



Lecture List

B.A.-II
2017-18

Department of Economics
University of Allahabad



B.A. PART-II

REVISED SYLLABUS

(FROM 2016-17)

INSTRUCTIONS FOR ALL THE PAPERS

- 1. Q. 1 will be compulsory and based on units I-IV. It will have two parts. Part A shall consist of six multiple choice type objective questions of one mark each. Part B shall consist of four short answer questions of 75-100 words of 3 marks each.**
- 2. Q. 2 to Q. 5 will be long answer questions of 8 marks each.**
- 3. Q. 2 will be from Unit I, Q. 3 will be from Unit II, Q. 4 will be from Unit III and Q. 5 will be from Unit IV. Each Unit will have two questions with internal choice out of which only one question is to be answered.**



PAPER - I

Macro-Economics

UNIT-I

National Income: its Measurement and Limitations, Nature of National Income Accounts in Closed and Open Economy, Uses of National Income Analysis, Social Accounting, **Environmental Accounting**.

Environment & Sustainability

UNIT-II

Theory of Employment, Say's Law of Market, Classical Theory, Keynesian Critique of Classical Theory, Simple Keynesian Theory of Employment and Income Determination, Investment function. Keynesian Consumption Function, Concept of Investment Multiplier.

UNIT-III

Nature and Causes of Trade Cycles, Theories of Trade Cycle: Hawtrey, Hayek, Schumpeter. Inflation: types, causes and impact, Inflation Employment Tradeoff: Phillips Curve, Macro Theory of Distribution: Ricardo, Marx and Kaldor.

UNIT-IV

Theories of Growth: Harrod and Domar Growth Models. Population and Development, Model of H. Leibenstein, the Low Level Equilibrium Trap: Nelson; Theory of Demographic Transition. Migration and Economic Development: Harris -Todaro Model.



PAPER-II

Development and Planning

Human Value

UNIT-I

Gender

Development: Meaning, Measurements and Indicators of Development. PQLI, HDI, GDI, GII, Causes of Under-development. Circular Causation: Myrdal and Nurkse, Over-Population. Technological Backwardness, Environment and Development.

UNIT-II

Selected Theoretical Prescriptions of Development: Rostow's Stages of Growth, Problem of Choice of Technique. Models of Development: Balanced vs Unbalanced Growth, Hirschman, Rosenstein Rodan, Two Gap Theory.

UNIT-III

Measures for Development, Augmentation of Savings, Investment Strategy, Capital Accumulation, Improvement in Technology and Industrialisation, Surplus Labour as a Source of Capital Formation- Lewis and Nurkse, Choice of Technique, Human Capital and Economic Development. Sustainable Development: Meaning and historical Evolution.

UNIT-IV

Concept of State vs Market, Planning: Types and objectives, planning for a mixed economy, Objectives, Strategies and Performance of recent Plans, Social sector and economic development, Education, Health, Gender Disparities.



PAPER-III

Money, Banking & Public Finance

UNIT-I

The Quantity Theory of Money: Fisher and Cambridge Approaches. Keynes' Fundamental Equations. An Elementary Treatment of Saving and Investment Approach. Concepts and Components of Money Supply.

UNIT-II

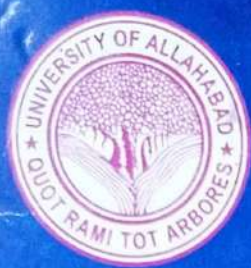
Theory of Commercial Banking, Theory of Credit Creation, Credit Multiplier. Theory of Central Banking, Types of Banks- Development, Cooperative, Universal etc. Techniques of Credit Control, The Reserve Bank of India, Control of Commercial Banks & Control of Credit.

UNIT-III

Public Finance and Private Finance: Concepts and Problems, Public and Private Goods, Principle of Maximum Social Advantage. Public Expenditure: Nature and Effect. Federal Finance concept, Federal Finance in India, Division of Resources, Finance Commission: Role and objectives.

UNIT-IV

Taxation: Progressive, Regressive & Proportionate. Direct and Indirect Taxes. Principles of Taxation: Ability to Pay. Least Aggregate Sacrifice, Incidence, Impact and Shifting of Taxation in Perfect Competition and Monopoly.



Department of Economics University of Allahabad



Lecture List

M.A. (Semester I, II, III & IV)

(Under Credit Based Semester System)

2019-20

M. A. Economics

Ordinances and Regulations For M.A. Economics Degree Programme

Preamble

The present course in Economics has been designed to reflect the changes in the economic environment of India and the Global economy. It is an effort in the direction of making the Department of Economics as a world class academic and research institution. The Department plans to encourage research studies and, undertake consultancy project on contemporary Indian and global Issues. The Department wishes to play an important role in economic decision making, policy formulation and implementation of the programmes & schemes of both Centre & State Governments.

Ordinances

1. The Degree of Master of Arts in Economics

The University of Allahabad may confer the Degree of Master of Arts on such candidates who, being eligible for admission to the M.A. Degree Programme, have received regular instruction in the prescribed courses of study, passed successfully relevant examinations and being otherwise suitable by virtue of their character, have fulfilled such other conditions as may be laid down from time to time by the appropriate authorities.

2. The Curriculum and Duration of Studies

A. (i) The Curriculum of study for the M.A. Degree shall comprise of the courses set out in Annexure B.

(ii) The Departmental Committee shall prescribe the detailed content of various courses of study, if required before the beginning of each session. The Departmental Committee can make changes in the optional papers/subjects, subjects to the availability of teaching facility/faculty.

B. The Curriculum of study for the M.A. Degree shall be spread over Four Semesters.

3. Requirement for Admission

A. Registration:

(i) Candidates for M.A. Degree shall first be admitted to the First Semester upon the reopening of the University after summer vacation every year.

- (ii) **Subsequent Registration:** A candidate, who fails to prosecute a regular course of study during any of the Second, Third and Fourth Semesters may be registered in the appropriate Term of any subsequent Year to the Semester concerned but within such time as enables him, to complete the study of all Semesters comprising M.A. Degree Programme within a maximum period of four years from the date of his/her registration for the First Semester.

B. Minimum Qualification for Admission

- (i) Admission to the M.A. Degree Programme of study shall be open to those candidates who have passed the Three Year Graduate Degree Examination of this University or such Examination of any other University or Institution after Graduation under 10+2+3 pattern as recognised by the University.
- (ii) Special Eligibility Clause for admission in M.A. Economics Programme Admission in M.A. Economics is also open to Special Category of Non Subject students:
- A. The students who pass Bachelors Degree with Mathematics or Statistics as one of the subjects up to B.A. III are also eligible for admission in M.A. Economics Programme.
- B. Students who opt Economics up to B.A. II are also eligible for admission in M.A. Economics Programme.
- (iii) The University of Allahabad shall conduct combined Entrance Test(CET) for each academic session. Admission shall be made according to merit in the M.A. (Economics) Admission Test subject to the fulfillment of eligibility requirement as determined by the University and availability of seats in M.A.(Economics) Programme.

C. Conditions of Admission:

- (i) No application for registration to the First Semester shall be entertained unless it is accompanied by:
- (a) A duly certified transcript of scholastic record of the candidate, commencing from the High School or equivalent Examinations.
- (b) Original Transfer Certificate of a candidate who has been a regular student in any Institution at any time

prior to making application for registration in the Faculty of Commerce and,

- (c) Original Migration Certificate if the candidate is not enrolled in this University or, if enrolled, his enrollment has been cancelled. Provided that if a candidate is unable to produce any of the documents other than the marks-sheet of the Graduate Examination, at the time of seeking admission in the Faculty of Commerce before Admission Committee, he shall undertake to submit them within one month or within such further period as the University authorities may prescribe; and the admission, if any, of such candidate shall, until the submission of the aforesaid documents, be deemed to be provisional.

(ii) Candidate shall give also a written undertaking to the effect that:

- (a) He/She shall exclusively devote his/her time to the study of courses prescribed for M.A. Degree and in particular he/she shall not offer any other course leading to a degree of any description whatsoever, nor shall he/she undertake any remunerative work, though with the prior permission of the Faculty, he/she may join certificate or Diploma course in any foreign language.
- (b) He/She shall abide by the provisions of the University of Allahabad Act, Statutes, Ordinances, Regulations and Rules that are framed or may be framed there under and the orders of the Officers and Authorities of the University and the Faculty of Commerce from time to time.

4. Fees

The students pursuing the M.A. Degree Programme of Study shall have to pay fee as may be prescribed by the University from time to time.

5. The Course of study, scheme of examination, result and promotion are covered in the Regulations, and are given below.

Regulations

1. M.A. Economics programme has been divided in four semesters in two years. This is a full time course of study. The odd semester would run between July to December and even semester between January to June. Two consecutive/one (odd + one even) semesters constitute one academic year.
2. There will be eighteen papers/courses in all in the whole programme. Besides, there would also be one course on **Dissertation & Viva-Voce** in the Second Semester and one on **Project work & Viva-Voce** in the Fourth Semester.
3. The course has two components- core-courses and elective courses. There are fourteen core-courses and four elective courses besides two compulsory/ core- courses on Dissertation and Viva-Voce, & Project work and Viva-Voce.
4. Each course has equal weightage. Each course will have 100 marks or 4 credits, as the case may be.
5. All the courses in First Semester and Second Semester are core-courses and compulsory to all students. In Semesters Third and Fourth, there are three core/compulsory courses each. There are Five elective groups which have 5-6 courses each. The students will be required to opt any two groups out of five elective groups. Again, from each group, students shall have to opt two courses from each of the two Elective Groups. One course from each group shall be studied in Semester III, and the other one, in Semester IV. Core courses have numbers ranging from ECO 501 to ECO 516 while Elective courses range from ECO 551 to ECO 596 in five Elective groups.
6. In the beginning of the Semester III, the Department would announce the available Elective Groups/Courses in the Elective Group to the students for the current session. The choice of elective group/course in the semester will be limited to those announced by the Department. Because of. infrastructural and faculty limitations, the department may put a cap on the number of students in an elective group/course.

Scheme of Examination

1. The evaluation scheme of examination consists of two parts: Internal Assessment & Semester End examination. Internal assessment includes assignments, presentations, Seminars, quizzes, case studies, Viva, Unit test, group activity/discussion etc. The internal assessment will

contribute 40% and the Semester end examination will contribute 60% to the total marks. This shall apply to both types of examination system, i.e., Semester-wise examination and choice based credit system(CBCS) based examination. (Note: The ratio of internal assessment and semester end Examination will be the same as determined by the University.)

2. There shall be continuous assessment of the students in each course. The Course instructor shall hold a maximum of three and a minimum of one internal test/assignment/presentation etc. In the case of three, best two would be considered.
3. In the case of the Semester examination, there shall be no binding on the number of external paper-setters/examiners, though in the case of CBCS/CBSS system, generally the course-instructor shall be the paper-setter and examiner. However, the core courses ECQ-510 and ECO-516 comprising "Dissertation & Viva-Voce" and "Project Work & Viva-Voce" respectively will be evaluated/examined by Board/s consisting of one external examiner and one internal examiner who shall be the Chairman of the Board. The dissertational Project Work and Viva-Voce shall have equal weightage, and would be judged separately. The remuneration for these courses (ECO-510 and ECO-516) would be at par with such courses being run in other departments of the university.
4. The duration of end-semester examination for each course will be 3 Hours

M. A. ECONOMICS SYLLABUS

(Based on CBSS)

PAPER CODE

ECO-501-Core- 4 Credits

ECO-502-Core- 4 Credits

ECO-503-Core- 4 Credits

ECO-504-Core- 4 Credits

ECO-505-Core- 4 Credits

PAPER CODE

ECO-510-Core- 4 Credits

ECO-506-Core- 4 Credits

ECO-507-Core- 4 Credits

ECO-508-Core- 4 Credits

ECO-509-Core- 4 Credits

PAPER CODE

ECO-511-Core- 4 Credits

ECO-512-Core- 4 Credits

ECO-513-Core- 4 Credits

ECO-

ECO-

PAPER CODE

ECO-514-Core- 4 Credits

ECO-515-Core- 4 Credits

ECO-

ECO-

ECO-516-Core- 4 Credits

Semester-I

Micro Economics - I

Macro Economics - I

Statistical Methods & Sampling

Monetary Economics

International Economics

Semester-II

Micro Economics - II

Macro Economics - II

Public Finance

Elements of Mathematical
Economics & Econometrics

Project Work & Viva-Voce

Semester-III

India's Economic Policy-I

Growth Economics

Financial Institutions & Markets

Elective Group-I

Elective Group-II

Semester -IV

India's Economic Policy-II

Development Economics

Elective Group-I

Elective Group-II

Project Work & Viva-voce

ELECTIVE GROUPS

Group- I Eco-550 (International Trade Issues & Financial Institutions)

- Eco-551-Core - 4 Credits- International Trade & Institutions
- Eco-552-Core - 4 Credits- International Financial Issues
- Eco-553-Core - 4 Credits- Regional Economic Cooperation
- Eco-554-Core - 4 Credits- India's Foreign Trade
- Eco-555-Core - 4 Credits- International Trade Laws

Group-II Eco-560 (Agricultural & Industrial Economics)

- Eco-561-Core - 4 Credits- Economics of Agriculture
- Eco-562-Core - 4 Credits- Indian Agriculture: Institutions and Issues
- Eco-563-Core - 4 Credits- Rural Development
- Eco-564-Core - 4 Credits- Economics of Industry & Industrial Organization
- Eco-565-Core - 4 Credits- Industry & Development
- Eco-566-Core - 4 Credits- Economics of Infrastructure & Transport

Group-III Eco-570 (Development Economics)

Eco-571-Core - 4 Credits- Population Studies

Eco-572-Core - 4 Credits- Demography

Eco-573-Core - 4 Credits- Economics of Education and Health/Economics of Human Resources

Eco-574-Core - 4 Credits- Social Sector and Development Issues

Eco-575-Core - 4 Credits- Gender Economics

Group-IV Eco-580 (Public Policy)

Eco-581-Core - 4 Credits- Public Economics

Eco-582-Core - 4 Credits- Resource & Energy Economics

Eco-583-Core - 4 Credits- Environmental Economics

Eco-584-Core - 4 Credits- Environmental Issues & Institutions

Eco-585-Core - 4 Credits- Economics and Law

Group- V Eco-590 (Quantitative Economics)

Eco-591-Core - 4 Credits- Advanced Econometrics

Eco-592-Core - 4 Credits- Time Series Analysis & Computer Application

Eco-593-Core - 4 Credits- Financial Econometrics

Eco-594-Core - 4 Credits- Linear Economics

Eco-595-Core - 4 Credits- Applied Econometrics

Eco-596-Core - 4 Credits- Operations Research

Semester - I

ECO-501 Micro Economics -I (Core Course: 4 Credits)

Unit: 1

12 Lectures

Uses of Indifference Curve - Empirical Theory of Demand. Demand for Consumer Durables; Linear Expenditure Systems- Analysis of Uncertainty in Consumer Behavior, Some application of Individual choice under risk and uncertainty. Newman Morgenstern.

Unit: 2

12 Lectures

Production Function- Homogeneous Production Function: Cobb-Douglas Production Function; C.E.S. and V.B.S. Production Functions -derivation of cost function from the production function-Modern approach to the theory of costs-technical progress and techniques of production. Investment decisions and present value rule, some application of present value rule.

Unit: 3

Human Value

12 Lectures

Welfare Economics: Pareto Optimum Conditions- Social Welfare Functions-compensation Principles- Arrow Impossibility Theorem, Amartya Sen on Arrow's Impossibility Theorem, Rawls, Concepts of Social Justice and Welfare Criterion -other obstacles of welfare maximization.

Unit: 4

12 Lectures

Partial and General Equilibrium; Existence, Uniqueness and Stability of Equilibrium- Concept of Excess Demand and Excess Price, Equilibrium in Lagged Market Model - Walrasian General Equilibrium, An Introduction to Input-Output Analysis

Reading List :-

- Andrey Mas-Colell, Micro economic theory, Oxford University Press, USA
- Blaug M., Economic Theory in Retrospect
- Edwin Mansfield, Micro Economics, Gary Wynn Yohe.
- Ferguson C.B. , Micro Economic Theory
- Geoffrey A. JcWe, Philip J. Reny, Advanced Micro Economic Theory
- Hall and Varian, Micro Economics
- Henderson J.M. and Quandt R.E., Micro Economic Theory
- Koutsoyiannis A., Modern Micro Economics, Macmillan
- Townsend(ed) H. Readings in Price Theory

Semester - I

ECO-502 Macro Economics -I (Core Course: 4 Credits)

X Unit-I

12 Lectures

Macroeconomic Variables, National Income Identities and National Income Accounting, Growth Rates, Inflation, Deflator, Price Indices, Unemployment, Output Gap, Twin Deficits, Brief Review of System of National Accounts, Flow of Funds Accounts, Social Accounting Matrices.

Unit II: Micro Foundations of Macroeconomic Relationships

12 Lectures

Consumption Analysis, Permanent Income and Life Cycle Hypotheses, Consumption under Uncertainty, Savings in inter-temporal models, Investment Theories: Neo-Classical and Keynesian, Money Demand, and Money Supply Function, Money Multiplier.

Unit III: National Income Determination Models in Short Run and Long Run and Price Level

12 Lectures

IS-LM Analysis, Fiscal and Monetary Policy Multipliers, Phillips Curve, AS-AD Model, Neo-Classical Synthesis, Three Sector Model, Monetary and Fiscal Interaction.

Unit IV: Open Economy Macroeconomics

12 Lectures

Foreign Trade Multiplier, Open Economy Model; Internal & External Balances. Economic Policies Model, SWAN Model, IS-LM-BOP Model.

Reading List:

Ackley, G. 1978), Macroeconomics: Theory and Policy, Macmillan, New York.

C. Rangrajan and Dholakia: Principles of Macroeconomics

Dipankar Dasgupta: The Macroeconomy: A Textbook View (1997) OUP.

Dornbusch, R. and F. Stanley (1997), Macroeconomics, McGraw Hill, Inc., New York.

G. Mankiw, Macroeconomics, McGraw Hill

Lipsey Crystal: Macroeconomics

Shapiro, E. (1996), Macroeconomic Analysis, Galgotia Publications, New Delhi.

Semester - I

ECO-503 Statistical Methods & Sampling (Core Course: 4 Credits)

Unit- I

12 Lectures

Correlation and Regression Analysis
Multiple and Partial Correlation & Regression
Theory of Attributes

Unit- II

12 Lectures

Elementary Probability Theory, Addition & Multiplication Theorems, Bayes Theorem, Concept of Random Variables, Mathematical Expectation.
Theoretical Probability Distributions- Binomial, Poisson, Normal Distributions (Without Proofs) and their Goodness of Fit.

Unit- III

12 Lectures

Sampling Theory: Population and Sample, Parameter and Statistic, Objectives of Sampling, Types of Sampling. Testing of Significance-Null & Alternative Hypotheses, Level of Significance, Confidence Level, Critical Region.

Sampling Distribution- Large Sample Tests, Distribution of Sample Mean and Sample Proportion, Chi-square Test.

Unit- IV

12 Lectures

Estimation-Point and Interval Estimates of Mean, Characteristics of Good Estimator, Standard Error of Estimates.

Type I and Type II Errors, Interpretation of P-Value, One-tailed and Two-tailed Tests.

Small Sample Tests, Testing of Hypothesis of Mean, Variance, Correlation Coefficient, Regression Coefficient etc. based on Z, t, Chi-square & F-tests.

Readings List:

Chou Y., Statistical Analysis.

Gupta S. C. and Kapoor V. K. : Fundamentals of Mathematical Statistics.

Gupta S. P. ; Statistical Methods.

Hogg R. V. and Graig A. T. : Introduction to Mathematical Statistics.

M. R. Spiegel; Theory and Problems of Statistics.

Nagar and Das; Basic Statistics.

WonneCoH and WonneCoH : Introductory Statistics for Business and Economics

Semester - I

ECO-504 Monetary Economics (Core Course: 4 Credits)

Unit -I

12 Lectures

Money Supply

Money: Concept and Functions

Money Supply: Concepts and Monetary Aggregates Theory of Money Supply; High Powered Money and Money Multiplier; Budget Deficits and Money Supply Determinants of Supply of Money; RBI Approach, Indian Financial System

Unit -II

12 Lectures

Post-Keynesian Demand for Money

Demand for Money; Overview of Keynes's Liquidity Preference Approach
Concept of Neutrality of Money and Money Illusion

Pigou Effect and Patinkin's Real Balance Effect

Crisis in Keynesian Economics and the Revival of Monetarism- Theory of Demand - M. Friedman

Comparison of Keynesian and Monetarist Approach

Demand for Money in Underdeveloped Countries

Unit -III

12 Lectures

Development in the Theory of Demand for Money

Approaches of Baumol and Tobin, Turvey Approach.

Liquidity Approach - Reddick Committee Report and Gurley-Shaw Thesis

Role of Technology in Monetary Development- Pesic and Siwek Approach

Unit -IV

12 Lectures

Theory of Inflation and Monetary Policy

Philips Curve and its Modifications: Tobin, Samuelson and Solow.

The Natural Rate of Unemployment and Stagflation, Adaptive Expectations and Rational Expectations - Expectation Augmented Approach: Friedman-Phelps and Lucas.

Reading List :-

Ahuja, H. L. Macroeconomics (New)

Chakravarty, S.C. (1985), Report of the Committee to Review the Working of the Monetary System, Reserve Bank of India, Bombay.

- D'souza Errol, *Macroeconomics*: Person Publication, New Delhi.
- Friedman, M. (1957), *the Theory of Consumption Function*, Princeton University Press, Princeton.
- Gupta, Suraj B, *Monetary Planning for India*, Oxford University Press, Delhi.
- Gurley, J. and E.S. Shaw (1960), *Money in a Theory of Finance*, Brookings Institution, Washington.
- Gordon, R. and S. G. Harris (1998), *Macroeconomics*, Addison Wesley, Massachusetts.
- India - A Central Banker's Perspective, UBSPD, New Delhi.
- Jha, R. (1999), *Contemporary Macroeconomic Theory and Policy*, New Age International (P) Ltd., New Delhi.
- Johnson, H. G. and Nobay A. R., *Issues in Monetary Economics*, Oxford University Press, Delhi.
- Keynes, J.M. (1936), *the General Theory of Employment, Interest and Money*, Macmillan, London.
- Mankiw, N.G. and D. Romer (Eds.), *New Keynesian Economics*, (2 Vols.), MIT Press, Cambridge.
- Mithani, D. M., *Money Banking and International Trade*.
- Paul, R. R., *Monetary Economics*.
- Patinkin, D. (1965), *Money, Interest and Prices*, Harper and Row, New York.
- Reddy, Y. V. (2000), *A Review of Monetary and Financial Sector Reforms in*
- Shapiro, E. , *Macroeconomic Analysis*, Galgotia Publications, New Delhi.
- Sheffrin, S. M. (1996), *Rational Expectations*, Cambridge University Press, Cambridge.

Semester - I

ECO-505 International Economics (Core Course: 4 Credits)

Unit-I

12 Lectures

Critical Overview of Classical Trade Theories, Neo-Classical Theory of Trade.

Modern Theory of Trade: Heckscher-Ohlin Theorem, Factor Price

Equalization Theorem, Stolper-Samuelson and Rybczynski Theorem. New Theories of International Trade: Kravis Theory of Availability, Linder's Theory of Volume of Trade, and Posner's Imitation Gap Theory.

Unit-II

12 Lectures

Intra-Industry Trade: The Neo-Heckscher-Ohlin Model, Neo-Chamberlin Model, Neo-Hotelling Model, and The Brander-Krugman Model. Measurement of Intra-Industry Trade (Grubel-Llyod Index, Bela Balassa

Index, etc), Strategic Trade Theory. Michael Porter's Theory of International Trade.

Unit-III

12 Lectures

Protection: Tariff and Non Tariff Barriers. Effective Rate of Protection. Trade Taxes and Welfare. Effects of Tariffs and Non-Tariff Barriers: Dumping, Subsidies, International Cartels, Technical Barriers, VERs, QERs, Standards, Health and Other Regulations. The Metzler Paradox. Currency and Commodity Swaps.

Unit-IV

12 Lectures

Overview of the Balance of Payments, Monetary Approach to Balance of Payments, Adjustment and Equilibrium in Balance of Payments, The Elasticity Approach, The Absorption Approach, International Capital Movements, Short term Flows, Private Capital Flows, Direct and Portfolio Investments. Foreign Exchange Markets and Exchange Rate, Spot and Forward Rates, Future and Options. Exchange Risks, Hedging and Speculation, Interest Arbitrage and Efficiency of Foreign Exchange Markets.

Reading List-

Bo Sodersten & Geoffrey Reed, International Economics, MacMillan Press Limited, Hampshire & London.

D. Salvatore, International Economics, New York, John Wiley.

Francis Cherunil, am, International Economics, Tata McGraw Hill Publishing Company Ltd., New Delhi.

H. G. Mannur, International Economics, Vikash Publishing House, New Delhi.

M. C. Vaish & Sudama Singh, International Economics, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.

M. L. Jhingan, International Economics, Vrinda Publication, New Delhi.

Paul R. Krugman & Maurice Obstfeld, International Economics (Theory & Policy), Addison Wesley Longman, Pearson Education, Indian Branch, New Delhi.

Parthapratim Pal, International Trade and India, Oxford University Press, New Delhi.

P. Kenen, International Economics, Cambridge Publication, New Delhi.

Rana & Verma, International Economics, Vishal Publishing Co., Jalandhar, India.

S. Kindleberger, International Economics, Traveller Book Sell, New Delhi.

T. N. Srinivasan, Growth, Sustainability, and India's Economic Reforms, Oxford University Press, New Delhi.

W. W. Cordon, Theory of Protection.

Semester - II

ECO-506 Micro Economics-II (Core Course: 4 Credits)

Unit: I

12 Lectures

Alternative to Profit Maximization, Managerial Theory-Baumol, Marris, Williamson's model, Limit Price Theory-Bains, Labini, Modgiliani, Behavioristic Theory -Cyert, Moses Average Cost Pricing Principle-Shadow Prices and Their Uses.

Unit: II

12 Lectures

Factor Pricing: in Imperfect Competition: Collective Bargaining. Imperfections in Labour Market and Wage -Review of Keynesian and Loanable Fund Theory of Interest, Hicks Hansen Co-ordination. Theory of Profit: Shackle Approach, Mehta Approach.

Unit : III

12 Lectures

Intertemporal Choice and Markets with Asymmetric Information, the Information Problem. Asymmetric Information and the Market Failure, Measures to Solve the problem of Adverse Selection, Moral Hazard and Allocative Inefficiency, Principal Agent Problem, Bounded Rationality.

Unit: IV

12 Lectures

Theory of Games and Strategic Behavior. Cooperative and Non-cooperative Games,. The Prisoners Dilemma Oligopoly Theory. The Nash Equilibrium, Deuman- Morgenstern's Game Theory, Mixed Strategy, Strategic Moves, Entry Deterrence Interated Elimination of Dominated Series, Two Persons Zero Sum Game.

Reading List :-

AndreyMas-Colell, Microeconomic Theory Oxford University Press, USA.

Blaug M, Economic Theory in Retrospect

Edwin Mansfield, Micro Economics by Gary wynn yohe.

Ferguson C.E., Micro Economic Theory

Geoffrey A. Jchle , Philip J. Reny, Advanced Micro economic theory

Hall and Varian, Micro Economics

Henderson J.M. and quandt R.E. Micro Economic Theory

Koutsoyiannis A. Mlodern Micro Econornics, Macrnillan

Townsend(ed) H. Readings in Price Theory

Semester - II

ECO-507 Macro Economics-II (Core Course: 4 Credits)

Unit I: Trade Cycles and Long Run Stable Equilibrium 12 Lectures

Linkage of Time Series Analysis to Business Cycles, Types and Phases of Business Cycles Period and Amplitude of Cycles. Schumpeter Model, Theory of Multiplier-Accelerator Interaction, Short and Long Run Adjustments and Stabilization.

Unit II: New Classical Macroeconomics and Real Business Cycles

12 Lectures

Rational Expectation Equilibrium Models, Lucas Critique, Incomplete Information Models, Persistence of Output Fluctuations.

Unit III: New Keynesian Theories of Business Cycles and Unemployment

12 Lectures

Incomplete Nominal Adjustments, Real vs. Nominal Rigidities, Real Non-Walrasian Theories, Coordination Failures, The Efficiency Wage Model, Insider-Outsider Model, Hysteresis, Search and Matching Models, Applications to Open Economy

Unit IV: Macroeconomic Policy Issues

12 Lectures

Historical Development of Macro Economic Policies: Objectives, Targets, Indicators & Instruments of Macro Economic Policies.

(a) Fiscal Policy

(b) Monetary Policy

Activist Policy, Gradualism vs Shock Therapy, Rules vs Discretion, Dynamic Inconsistency Problem, Inflation Targeting, Seignorage, Barro-Ricardo and Blinder-Solow Hypothesis Lagged related Issues of Fiscal & Monetary Policy.

Reading List :-

David Romer, Advanced Macroeconomics, 2e McGraw Hill, 2001

Oliver J Blanchard and Stanley Fischer, Lectures on macroeconomics, Prentice Hall, New Delhi

Mankiw, N. G. and D. Romer (Eds.) (1991), New Keynesian Economics, (2 Vols.), MIT Press, Cambridge.

Semester - II

ECO-508 Public Finance (Core Course: 4 Credits)

Unit-I

14 Lectures

Role of Government in an Economy: The Allocation, Distribution and the Stabilization Functions; Private Goods, Public Goods, and Merit Goods; Market Failure Imperfections, Decreasing Costs, Externalities. Theory of Public Choice: Problems of Preference Revelation and Aggregation - Voting System, Political Economic Interactions, Pressure Groups & Interest Groups, Bureaucracy, Rent Seeking and Directly Unproductive Profit

Seeking (DUP) Activities, Nordhaus-the Political Business Cycle.

Public Expenditure: Meaning and Scope, Theories of Public Expenditure-Pigou's Ability to Pay Theory, Benefit Principle, Samuelson Theory, Adolph Wagner Hypothesis and Peacock Wiseman Hypothesis, Colin Clark.

Human Value

Unit-II

10 Lectures

Taxation: Introduction, **Concept of Equity in Taxation**, Benefit Principle of Taxation; 1- Bowen Model & Lindahl Model, Samuelson's Optimal Allocation of Social and Private Wants.

Taxable Capacity: Conceptual Framework, Absolute and Relative Taxable Capacity, Factors Determining Taxable Capacity, Taxable Capacity & Ability to Pay.

Unit-III

10 Lectures

Fiscal Policy: Objectives and Instruments of Fiscal Policy, Built in Stabilizers, Compensatory Fiscal Policy, Functional Finance Approach, Budget Multiplier Fiscal Policy and Developing Countries.

Unit-IV

14 Lectures

Public Debt: Objectives & Importance of Public Debt, Classical Theory of Public Debt, Pay-as-you use & Pay-as-you go finance, Inter-generational Equity, Debt Burden & Future Generation, Shifting of Burden, Redemption of Public Debt, Debt Management and Monetary Policy.

Reading List :-

Atkinson A and J Stiglitz, Lectures in Public Economics, MC Graw Hill 1980.

Bailey, S.J Public Sector Economics, Macmillan (2004).

- Boadway R and Bruce (1984). Welfare Economics-Basil Black well Oxford
- Duff L. (1997), Government and Market, Orient Longman, New Delhi.
- D.C Muller, (1979), Public Choice. Cambridge University Press.
- Friedman A. (1986). Welfare Economics and Social Choice Theory Martins Nighoff, Boston.
- Harper and Row (1957). A Downs An Economic Theory of Democracy.
- J. E. Stiglitz, Economics of Public Sector, Norton (1986).
- Jha R, Modern Public Economics, Routledge, London (1999).
- Lekhi, R K., Public Finance, Kalyani Publishers, Ludhiana, Latest Edition.
- Lal S. N., Problem of Public Borrowing in India, Bombay.McGraw Hill Book Company, New York.
- Meier .G.M and Rauch,Leading Issues in economic development, UP (2000).
- Mishan E.J Introduction to Normative Economics, OUP (1986).
- Pogu T F and L.G Sgontz, Government and Economic Choice, an Introduction to Public Finance, Hengton Mul.Boston.
- Quick. J and R. Sapanick, Introduction to General Equilibrium theory and Welfare Economics, Mc Graw Hill, New York (1968).
- Richard A. Musgrave (1989), Public Finance in Theory and Practice
- R Goode Govt., Finance in Developing Countries, Tata McGraw Hill (1986).
- R Comes and T. Sandler, The Theory of Externalities Public Goods and Club Goods, Cambridge University Press-1986.
- Rosan S Harve, Public Finance, Irwin Publications in Economics, USA.
- Richard A. Musgrave Public Finance in Theory and Practice, McGraw Hill Book Company, New York(1989).
- Singh S K, Public Finance in Developed and Developing Countries, S. Chand and Company Ltd, New Delhi(1986).

Semester - II

ECO-509 Elements of Mathematical Economics & Econometrics

Unit- I

12 Lectures

Mathematical Operations on Matrices, Determinants, Minors, Cofactors and Inverse of Matrices, Solution of Simultaneous Equations using Inverse and Cramer's Rule; Matrices and their Applications in Economics.

Input -Output Analysis.

Graphical Approach to Linear Programming: Description of Simple Linear Programming Problems.

Unit- II

12 Lectures

Derivatives and its Application in Economics, Taxation Problems.

Partial Differentiation First Problems and Second order Derivatives, Total Differentiation.

Economic Applications of Partial Differentiation-Use of Lagrange Multiplier.

Homogenous Function. Euler's Theorem and its Application in Economics, Cobb-Douglas Production Function & its Properties, Leontief and CES Production Function. Elasticity of Substitution.

Unit- III

12 Lectures

Integral Calculus - Rules of Integration, Indefinite and Definite Integrals, Application of Integration in Finding Total Functions of Economic Variables from Marginal Functions - Consumer's and Producer's Surplus.

Simple Differential Equations & Its Application.

Unit-IV

12 Lectures

Elementary Treatment of Difference Equations & its Application in Economics.

Econometrics: Nature and its Relation to Statistics and Mathematical Economics. Importance and Uses of Econometrics; Methodology of Econometric Research; Simple Linear OLS Regression Model: Assumptions and Estimation of Simple Linear OLS.

Reading List :-

Allen, R.G.D: Mathematical Analysis For Economists.

Archibald, G. and Lipsey, R.G., Introduction to Mathematical Treatment of Economics.

Ailchison, J. and Brown, J.A.C.: The Log-normal Distribution.

Baumol, W.J., Economic Theory and Operations Analysis.

Beckerman, W., An Introduction to National Income Analysis.

Chiang, A.C., Fundamental Methods of Mathematical Economics.

Dorfman, R, Samuelson, P.A. and Solow, R, Linear Programming and Economic Analysis.

Edey and Peacock, National Income and Social Accounting.

Gujarati, D. N. (1995), Basic Econometrics (IInd Edition), New Delhi, McGraw-Hill.

Henderson, J.M. and Quandt, RE., Microeconomic Theory: A Mathematical Approach.

- Koutsoyiannis, A. (1997), Theory of Econometrics (IInd Edition), London, the Macmillan Press.
- Krishna, K. L., (1997), Econometric Applications in India, New Delhi, Oxford University Press.
- Kamenta, J. (1997), Elements of Econometrics, New York, University of Michigan Press.
- Lange, Oscar, Introduction to Econometrics.
- Mehta B. C. And Madnani G.M. K., Econometrics, Latest Edition.
- Mehta, B.c., Mathematical Economics: Microeconomic Models.
- Maddala, G.S. (Ed.) (1993), Econometrics Method and Applications, (2 vols.) U. K.; Alders Hot.
- Sen, A., On Inequality.
- Sen, A., Poverty: An Ordinal Approach to Measurement, Econometrica.
- Stone, R and Murray, c., Social Accounting and Economic Models.
- Yamane, T., Mathematics for Economists.

Semester - III

ECO-511 India's Economic Policy-I (Core Course: 4 Credits)

UNIT 1: Theory of Economic Policy

Pareto-Optimality

Human Value

Market Failures

Environment & Sustainability

Causes of Market Failures -

Role of State

Economic Policy- Instruments, Targets- Fixed and Flexible, Conflicts Government Failures.

UNIT 2: Agricultural Policy in India

12 Lectures

An Overview of Agricultural Policy in India

New Agricultural Policy

Agricultural Price Policy of India

Public Distribution System in India

Food Security in India

UNIT 3: Industrial Policy of India

12 Lectures

An Overview of Industrial Policy in India New ,Industrial Policy

Public Sector in India Micro, Small and Medium Enterprises in India

Cottage Industry in India

UNIT 4: Environmental and Energy

12 Lectures

Environmental Issues in India

Development of Environmental Policy in India

Development of Energy Policy in India

Reading list

- Acocella, Nicola, Economic Policy in the Age of Globalisation
- Acharya, S.S. and Chaudhari, D.P., Indian Agricultural Policy at the Crossroads: Priorities and Agenda
- Ahuja, Astha, Agricultural and Rural Development in India
- Beder, Sharon, Environmental Principles and Policies: An Interdisciplinary Introduction
- Chand, Ramesh, India's Agricultural Challenges: Reflection on Policy, Technology and Other Issues
- Ghosh, Amitabh, The Great Derangement: Climate Change and the Unthinkable
- Guha, Ramchandra, Environmentalism: Global History
- Habib, Irfan, Man and Environment.
- Hashim, H.R., Chalapati Rao, K.S., Ranganathan K.V. and Murthy, M.R., (eds), India's Industrial Development and Globalisation.
- Majumdar, N.A. and Kapila, Uma, Indian Agriculture in the New Millennium
- Rangarajan, Mahesh, Environmental Issues in India
- Rosencranz, Armin, Shyam, Divan, Noble and Martha, L., Environmental Law and Policy in India
- Satyanarayana, J., The New Industrial Policy And Its Impact on India's Industrial Economy
- Sen, A.K., On Ethics and Economics.
- Swaminathan, M.S., Sustainable Agriculture: Towards Food Security
- Swaminathan, M.S., An Evergreen Revolution
- Tinbergen, J., Economic Policy, Principles and Design
- Tinbergen, J., On the Theory of Economic Policy
- Vyas, V.S., India's Agrarian Structure, Economic Policies and Sustainable Development

Semester - III

ECO-512 Growth Economics (Core Course: 4 Credits)

Unit-I : **12 Lectures**

Economic Growth: Problem, General Solution, Growth Equilibrium: Existence, Uniqueness and Stability.

Approaches to Growth: Classical and New Classical Approaches, Structural and Institutional Approaches, Marxist/New Marxist Approaches

Dependency Theories: Historical Perspective/Experience of Development, Structural Change (Chenry).

Unit-II: **12 Lectures**

Neo-Keynesian Models of Growth: N. Kaldor, L. Pasinetti and Mrs. Joan Robinson; Concept of Golden Age and Golden Rule of Accumulation.

Indian Plan Models- Mahalanobis, Tendulkar and Macroeconomic Consistency Model.

Unit-III: **12 Lectures**

Technical Progress in Macro Production Function, Endogenous Growth Models: AK Model, Lucas Model of Human Capital, Romer Model of Endogenous Innovation, Theory of Convergence and Divergence: The Classical approach to Convergence Analysis, Introduction of Stochastic Model.

Unit-IV: **12 Lectures**

Solow-Swan Model, Introduction of Infinite Horizon Model, Basics of Overlapping-Generations (Diamond) Model, Mundell-Fleming Open Economy Model.

Reading List-

Adelman, I., Theories of Economic Growth and Development, Stanford University Press

Blanchard, O. and Fischer, S., Lectures on Macroeconomics, (1989)

Barro, Robert J. and Xavier Sala-i-Martin: Economic Growth, McGraw-Hill

H.G. Jones, An Introduction to Modern Theories of Economic Growth

Hahn F.H., Readings in Theory of Growth, Macmillan McGraw-Hill Book Company

J.K.Mehta, Economics of Growth, Asia Publishing House

- Jones C.I., Introduction to Economic Growth, W.W. Norton & Company, New York
- K.N.Kabra, Development Planning in India, Sage Publications, New Delhi
- Lucas, Robert, On the Mechanics of Economic Development, JPE (July 1988)
- Meier and Rauch, Leading Issues in Economic Development, OUP
- Romer, David, Advanced Macroeconomics. New York: McGraw-Hill,
- Ray, D., Development Economics, OUP.
- Romer, Paul, Endogenous Technological Change, Journal of Political Economy (Oct. 1990)
- Stiglitz J.E. & Uzawa H, Readings in Modern theory of Economic Growth, The M.I.T. Press
- Sen, A.K, Growth Economics, Penguin Books.
- Thirlwall, A.P., Growth and Development, ELBS

Semester - III

ECO-513 Financial Institutions & Markets (Core Course: 4 Credits)

UNIT-I **12 Lectures**

Financial Intermediation and Financial Intermediaries
 The Structure and Functions of the Financial System
 Indicators of Financial Development, Criteria to Evaluate Assets: Risk and Financial Assets, Types of Risk, Risk Return Trade Off.
 Trend in Saving and Investment in India -Role of Financial Intermediaries.
 Financial System and Economic Development

UNIT -II **12 Lectures**

Banking in India

Growth and Structure of Commercial Banks in India, Critical Evaluation of Performance, Reforms and Challenges. Credit Creation and its Control.
 Co-operative Banks: Performance and Policy.
 Development Banks - Role and Development
 Interest Rates in India -Status and Issues; Inflation in India - Status and Issues;
 RBI - Objectives, Functions and Monetary Policy. Recent Monetary policy and Prospects for Investment in India.
 Banking Development and Current Technological Innovations.
 International Practices and Banking System in India.
 Role & Working of IFCI, ICICI, IDBI, EXIM Bank SIDBI, SFC's.

UNIT –III

12 Lectures

Financial Markets and Non-Banking Institutions

Role and Structure of Money Market Call Money Market. Treasury Bill Market, Commercial Bill Market, Government Securities Market.

Capital Market- Primary and Secondary Market in India (Introduction of its Structure and Functions).

Markets for Derivatives: Futures and Options, and Other Derivatives: Types, Uses and Pricing of Derivatives, Concept of Hedgers, Speculators, Arbitrageurs.

Non-Banking Financial Institutions: Nature, Significance, Types and Performance, Regulations in India. Functions of General & Life Insurance Company, Mutual Funds.

UNIT-IV

12 Lectures

Market Regulation

SEBI: Functions, Roles (it's Impact on the Working of Capital Market in India) and Challenges

Financial Instruments- Concepts and Development. Securites (Bond, Debenture, Equities) and Share Price Indices.

Globalisation and Financial Market- Role of FDI and FPI

Role of Financial Market in Indian Economic Development

Reading List :-

Bhole, L.M. (1999), Financial Institutions and Markets, Tata McGraw Hill Company Ltd., New Delhi.

Bharati Pathak (2009), The Indian Financial System: Pearson Education Publication New Delhi

Bhole, L.M. (2000), Indian Financial System, Chugh Publications, Allahabad.

Chandra, PChandra, P. (1997), Financial Markets, (4th Edition), Tata McGraw Hill, New Delhi.

Gupta, S.B. (1983), Monetary Economics, S. Chand & Company, New Delhi.

Gupta, L.c. (Ed.) (1999), India's Financial Markets and Institutions, Society for Capital Research and Development, Delhi.

Hanson, J.A. and S. Kathuria (Eds.) (1999), India: A Financial Sector for the Twenty-first Century, Oxford University Press, New Delhi.

Harker, P.T. and S.A. Zenios (2000) (Ed.), Performance of Financial Institutions, Cambridge University Press, Cambridge.

Johnson, H.J. (1993), Financial Institutions and Markets, McGraw Hill, New York

- Khan, M.Y. (1996), Indian Financial System, Tata McGraw Hill, New Delhi.
 Machiraju, M.R. (1999), Indian Financial Systems, Vikas Publishing House, New Delhi.
 Ohlson, J.A. (1987), The Theory of Financial Markets and Institution, North Holland, Amsterdam.
 Rangaranjan, C. (1999), Indian Economics: Essays on Money and Finance, UBS Publication, New Delhi.
 R.B.I. (1985), Report of The Committee to Review the Working of the Monetary system (Chakravarty Committee), Bombay.

Semester - IV

✓ ECO-514 India's Economic Policy-II (Core Course: 4 Credits)

UNIT I: Monetary Policy

Role and Objectives in Developing Countries Instruments of Monetary Policy

Monetary Policy of India during Plans Post-1991

Monetary Policy and Inflation in India

Conduction of Monetary Policy in Recent years

✓ UNIT 2: Commercial Policy

✓ India's Balance of Payments during Plans ✓

✓ India's Foreign Trade Policy ✓

✓ Foreign Capital and India

✓ Foreign Policy of India- FERA, FEMA

✓ UNIT 3: India's Population Policy

✓ Demographic Structure of India

✓ Occupational Structure of India's Population

✓ India's Population Policy

✓ Census in India- Main Features of 2011 Census

UNIT 4: Environment and Energy

Poverty, Inequality and Unemployment.

Reading List:-

Amartya Sen, Development As Freedom, Oxford University Press

A K Sen, Growth Economics, Penguin Books

Amartya Sen, Collective Choice and Social Welfare on Economic Inequality, Oxford University Press

Amartya Sen, Employment, Technology and Development, Oxford University Press.

Gender



Amartya Sen: Poverty and Famine: An Essay on Entitlement and Deprivation, Oxford University Press
 Amartya Sen and Jean Dreze: India: Economic Development and Social Opportunity, Oxford University Press
 Amartya Sen, Resources, Values and Development Oxford University Press
 A.P. Thirlwall, Growth and Development, ELBS
 Benjamin Higgins, Economic Development, University Book Stall, New Delhi
 C.P. Kindleberger, Economic Development, Mc Graw Hill, New York
 UNDP, Human Development Report
 D Ray, Development Economics, Oxford University Press.
 Hollis Chenery & T.M.Srinivasan, Handbook of Development Economics, North Holland
 Meier and Rauch, Leading Issues in Economic Development, Oxford University Press
 M.P.Todaro and S.C.Smith, Economic Development, Pearson.
 Majumdar, Basu and Mitra (ed), Capital, Investment and Development, Essays in Memory of Sukhamoy Chakravarty, Oxford University Press
 N. Gimmel, Surveys in Development Economics, Blackwell Oxford.
 P. Dasgupta, In Inquiry into Well Being and Destitution, Oxford University Press
 S GJJatak, Introduction to Development Economics, Routledge.
 Y Hayami and Y Godo, Development Economics, From the Poverty to the Wealth of Nations (3rd Edition), Oxford University Press.

Semester - IV

✓ **ECO-515 Development Economics (Core Course: 4 Credits)**

- Unit 1:** **12 Lectures**
 The Concept of Development: Traditional views to the New Economic View of Development, Underdevelopment as Coordination Failure (O-Ring Theory), Measuring Economic Development: Measures of Development Including HDI and Sen's Capabilities and Entitlement.
- Unit 2:** **Gender** → **12 Lectures**
 Resources and Development: Population, Education, Health, **Gender**, Poverty, Inequality, Unemployment, Urbanization, Rural- Urban Linkages (Agriculture- Industry relationship) & Migration - Theories and Empirical Evidence (Harris-Todaro Model), Environment.
- Unit 3:** **12 Lectures**
 Role of Internal Finance in Development: Domestic Financial Resources for Development, Microfinance - Theory, Issues & Empirical Evidence, Fiscal Policy and Economic Development.

Unit 4:

12 Lectures

Role of External Finance in Development: External Aid, FDI and MNCs Activity, Role of Trade and Technology in Development.

Institutions and Economic Development: Social Network as an Institution, Elementary Idea of Political Economy of Development.

Reading List :-

A.P.Thirlwall, Growth and Development, ELBS

Amartya Sen, Development As Freedom, Oxford University Press

A K Sen: Growth Economics, Penguin Books

Amartya Sen, Collective Choice and Social Welfare on Economic Inequality, Oxford University Press

Amartya Sen, Employment, Technology and Development, Oxford University Press
Amartya Sen: Poverty and Famine: An Eassy on Entitlement and Deprivation, Oxford University Press

Amartya Sen and Jean Dreze, India: Economic Development and Social Opportunity, Oxford University Press

Amartya Sen, Resources, Values and Development, Oxford University Press

Benjamin Higgins, Economic Development, University Book stall, New Delhi

c.P. Kindleberger, Economic Development, Mc Graw Hill, New York

D Ray, Development Economics, Oxford University Press.

Hollis Chenery & T. M. Srinivasan, Handbook of Development Economics, North Holland

Meier and Rauch, Leading Issues in Economic Development, Oxford University Press

M.P.Todaro and S.C.Smith, Economic Development, Pearson.

Majumdar Basu and Mitra (ed), Capital, Investment and Development, Essays in memory of Sukhamoy Chakravarty, Oxford University Press

N. Gimmel, Surveys in Development Economics, Blackwell Oxford.

P. Dasgupta, In Inquiry into Well Being and Destitution, Oxford University Press

S Ghatak, Introduction to Development Economics, Routledge.

UNDP, Human Development Report

Y Hayami and Y Godo, Development Economics, From the Poverty to the Wealth of Nations (3rd Edition), Oxford University Press

Elective Groups

GROUP-III (Development Economics)

ECO-571- Population Studies (Elective - 4 Credits)

UNIT -I: Theories of Populations- I

12 Lectures

An Overview of Pre- Malthusian and Malthusian Theory of Population..

Theory of Optimum Population

Biological Theories of Population: Thomas Doubleday's Diet Theory, Joe De Castro's Protein Consumption Theory, Michael Thomas Sadler's Destiny Theory, Pearl and Reed's Logistic Curve Theory and Corrado Ginniss Biological Population Theory.

UNIT -II: Theories of Population - II

14 Lectures

Social and Economic Theories of Population: Dumont's Theory of Social Capillarity, Karl Marx's Theory of Surplus Population, Leibenstein's Motivational Theory of Population Growth.

Demographic Transition Theory: Notestein, Blacker, Karl Sax, Landry, Cowgill, Coale and Hoover

Population and Economic Development: Enke's View, Meadows View, Julien Simmon View, Leibenstein Critical Minimum Effort Theory.
Population and Environment

Gender

UNIT -III: Indian Population Analysis

10 Lectures

Indian Population: Composition, Structure, Pattern etc.
Determinants and Pattern of Fertility in India.
Determinants of Pattern of Mortality and Morbidity in India.

Age at Marriage in India

Population Policy in India with a Comparative Analysis of Some Developing Countries.

UNIT-IV: Migration And Urbanization

12 Lectures

Migration: Concepts, Measurement and Selectivity.

Theories of Migration : Everett Lee's Theory of Migration, Duncan's Theory, Standing's Theory of Materialism.

Models of Migration : Lewis Model of Rural-Urban Migration, The Fei-Renis Model of Rural-Urban Migration, Harris- Todaro Model of Rural-Urban Migration.

Urbanization in India.

Urbanization and Civic Amenities.

Elective Groups

GROUP-III (Development Economics)

✓ ECO-572-Demography (Elective- 4 Credits)

UNIT-I: Demography I

12 Lectures

Demography: Definitions, Concepts, Rates, Ratio & Proportions etc.

Fertility and Fecundity and its various Measurements:

CBR, ASFR, GFR, TFR, GRR, NRR, Cohort Rates and Coale Indices.

UNIT-II: Demography II

14 Lectures

Mortality and Morbidity and its various Measurements: CDR, IMR, NMR,

MMR etc. Measures of Morbidity.

Life Table: Simple and Abridged Life Table and Construction of Life Table, Model Life-Table: U.N. Model Life Table and Coale – Demeny Model Life Tables.

Gender

UNIT-III: Nuptiality Analysis and Stabilization Model 12 Lectures

Nuptiality Analysis: Concepts and Measurement.

Population Projections.

Age-Pyramid: Views of Thompson and Lewis.

Demographic Models: Stable and Stationary Population Model..

UNIT-IV: Demographic Data 10 Lectures

Sources of Demographic Data: Census, Sampling, Vital Registration Methods, NFHS/SRS and DHS.

Food and Nutrition Position in India.

Quality of Data: Whipple's Index, Myers and Blended Index.

Trends of World Population: with special focus on SAARC & BRICS Nations.

Reading List:

Becker, G. (1960) ,An Economic Analysis of Fertility in Demographic Change and Economic Change in Developed Countries (edited by National Bureau of Economic Research), Princeton University Press, Princeton.

Boserup, E. (1981) , Population and Technological Change. A Study of Long Term Trends Chicago, University of Chicago Press.

Chandna, R. C. (2008), A Geography of Population Concepts, Determinants and Patterns.

Bouge, D. J. (1971), Principles of Demography, John Wiley, New York.

Coale, A. and E. Hoover (1958), Population Growth and Economic Development in LowIncome Countries, A Case Study of India's Prospects, Princeton University Press, Princeton.

Cox, Peter R. (1979), Demography, Vikas Publishing House, New Delhi.

John R. Weeks (2002), Population: An Introduction to Concepts and Issues (7th Edition), Wadsworth Publishing Company, New York.

Shryock, n. S. et. al. (1976), The Methods and Materials of Demography, Academic Press, New York.

Srinivasan, K. (1998), Basic Demographic Techniques and Applications, Sage Publications, New Delhi.

Schultz, Theodore W. (1978), Investing in People; The Economics of Population Quality, Hindustan Publishing Corporation, India, Delhi.

Thompson, W. S. and Lewis, D.T. (1976), Population Problems, Tata McGraw Hills Publishing Co., New Delhi.

Elective Groups

GROUP-IV (Public Policy)

ECO-581- Public Economics (Elective - 4 Credits)

UNIT-I

12 Lectures

Introduction

- Public Economics - Concepts
- Evolutions of Fiscal Policy for Economic Development, Growth and Stabilization
- Counter Cyclical Expenditure
- Compensatory Finance
- Fiscal Dynamics and Growth

UNIT -II

12 Lectures

Tax & Expenditure

- Tax and Expenditure - Structure & Pattern
- Direct and Indirect Taxes
- Taxes of Union, State and Local Bodies
- Tax Reforms
- Expenditure Reforms
- Tax Administration Reforms

UNIT -III

12 Lectures

Budget System

- Process of Budget Formulation & Enactment
- Components of Budget
- Types of Deficits & Effects of Deficits
- FRBM Act
- Fiscal Consolidation

UNIT -IV

12 Lectures

Federal Finance

- Fiscal Federalism
- Co-operative Federation
- Centre -State Financial Relations
- Finance Commissions
- State Finance Commissions
- Financial System of Local Bodies

Reading List:

Atkinson A. B., and Stiglitz J. E. (1980), Lectures on Public Economics, Tata McGraw Hill, New York.

Buchanan, J.M. (1970), The Public Finances, Richard D. Irwin, Homewood.

Chelliah Raja J. (1971), Fiscal Policy in Underdeveloped Countries, George Allen and Unwin, London.

Dalton, Hume (1971), Principles of Public Finance, Routledge and Kegan Paul Ltd., London.

Jha, R. (1998), Modern Public Economics, Routledge, London.

Lakdawala, D. T. (1967), Union-State Financial Relations, Lalvani Publishing House, Bombay.

Lekhi, R. K., Public Finance, Kalyani Publishers, Ludhiana.

Musgrave R. V. and Musgrave P.B. (2001), Public Finance in Theory and Practice, McGraw Hill Book Company, New Delhi.

Singh, S. K., Public Finance in Theory and Practice, S. Chand and Co. Ltd., New Delhi



Elective Groups

GROUP-IV (Public Policy)

ECO-583- Environmental Economics (Elective - 4 Credits)

UNIT-I

10 Lectures

Introduction

Environmental Economics - Concept and Dimensions

Links between Natural Environment and Human Economy

Neo-classical Perspective: Circular Flow Model

Ecological Perspective: Material Balance Model

UNIT -II

14 Lectures

Fundamentals of Environmental Resources and Environmental Problems

The Economic Process and the Assimilative Capacity of the Natural Environment

The Optimal Level of Pollution

Environmental Damage

Public Goods

Common Property Resources

Externalities: Types of Externalities, Basics of Externality Theory.

UNIT-III

14 Lectures

Solution to Environmental Problems

Command-and-Control Approach: Liability Law, Emission Standard, Property Rights.

Market approach: Pollution Tax, Pollution Subsidy, Deposit/Refund System, Pollution Permit Trading System,

The Economic Approach to Environmental Valuation

Direct and Indirect Methods: Market Pricing Approach, Replacement Cost Approach, Hedonic Pricing Approach, Household Production Function Approach, and Contingent Valuation Approach.

Benefit -Cost Analysis.

UNIT -IV

10 Lectures

Environment and Development

Environmental Kuznets Curve

Sustainable Development -Conceptual Framework

Indicators of Sustainable Development

Environmental Accounting

Reading List :-

- Baumol, W. J. & Wallace, E.O. :The Theory of Environmental Policy, Prentice Hall, New Jersey
- Bhattacharya, Rabindra N (ed.) : Environmental Economics -An Indian Perspective, Oxford University Press, New Delhi
- Eugene, T , Environmental Economics, Vrinda Publishers, New Delhi
- Hanley, Nick; Shorgen, Jason F. & White, Ben: Environmental Economics- In Theory & Policy, Macmillan, New Delhi
- Hussen, Ahmad M , Principles of Environmental Economics, Routledge, London
- Jhingan, M L. & Sharma, C.K., Environmental Economics -Theory, Management & Policy, Vrinda Publishers, New Delhi
- Karpagam, M, Environmental Economics, Sterling Publishers, New Delhi
- Kolstad, Charles D., Environmental Economics, Oxford University Press, New Delhi
- Mohanty, S. K , Environmental and Pollution Laws, Universal Law Publishers Co., New Delhi
- Rangarajan, Mahesh, Environmental Issues in India, Pearson Longman, New Delhi
- Sankar, Ulagathan, Environmental Economics, Oxford University Press, New Delhi

Sengupta, Ramprasad, Ecology & Economics, Oxford University Press,
New Delhi

Singh, Katar & Shishodia, Anil, Environmental Economics -Theory and
Application, Sage Publication, New Delhi

Speth, J. G. & Haas, P.H , Global Environmental Governance, Pearson
Longman, New Delhi

Thomas & Callan, Environmental Economics, Thomson South-Western,
New Delhi

Tietenberg, Tom, Environmental and Natural Resource Economics, Pearson
Education, New Delhi.

Elective Groups

GROUP- V (Quantitative Economics)

ECO-591- Advanced Econometrics (Elective - 4 Credits)

Unit-I

12 Lectures

Theory of Estimation: Different Methods of Estimation, Characteristics of Estimators in Both Small and Large Sampling; Gauss Markov Theorem, Confidence Interval and Confidence Limits of Parameter Estimates of OLS and Generalized OLS Linear Regression Model, Explanation of R^2 and Adjusted R^2 .

Unit-II

14 Lectures

Econometric Problems in Regression Analysis

- A. Autocorrelation: Nature, Identification, Consequences and Remedial Steps for Autocorrelation Problems.
- B. Heteroscedasticity: Nature, Identification, Consequences and Remedial Steps for Heteroscedasticity Problems.
- C. Multicollinearity: Nature, Identification, Consequences and Remedial Steps.
- D. Micronumerosity: Identification and Multicollinearity.

Unit-III

12 Lectures

- A. Specification of Errors; Errors of Measurement; Dummy Variables and Regressions using Dummy Variables.
- B. Lag in Economic Relationship: Estimation of Single Regression Equation with Lags & Distributed Lag Models.

Probit Models, Logit Models, Tobit Models & ARCH Models.

Reading List :-

Baltagi, R. H., Econometrics.

Chow, G.C., Econometrics.

Dhrymes, P.J., Econometrics Statistical Foundations and Applications.

Dougherty, C., Introduction to Econometrics.

Goldberger, A.S., Introductory Econometrics.

Gujarati, D. N. (1995), Basic Econometrics (IInd Edition), New Delhi, McGraw-Hill.

Greene W.H., Econometric Analysis, 4th edition, Pearson Education (2000)

Hamonda, O.F. and J.C.R. Roley: Time Series Model, Causality and Exogeneity

Intrilligator, M.D., Econometric Methods, Techniques and Applications.

Intrilligator, M.D., Econometric Methods, Techniques and Applications.

J. Johnston, Econometric Methods, 3rd Edition, McGraw-Hill/Irwin; 4th edition (1996)

Klein, L.R., Introduction to Econometrics. Mehta P. C. And Madnani G.M.K., Econometrics, Latest Edition.

Koutsoyiannis, A. (1997), Theory of Econometrics (IInd Edition), London, the Macmillan Press.

Krishna, K. L., (1997), Econometric Applications in India, New Delhi, Oxford University Press.

Kamenta, J. (1997), Elements of Econometrics, New York, University of Michigan Press.

Maddala, G.S. (Ed.) (1993), Econometrics Method and Applications, (2 vols.) U. K.; Alders Hot.

Sen, A., Poverty: An Ordinal Approach to Measurement, Econometrica.

Theil, H., Introduction to Econometrics.

Theil, H., Principles of Econometrics.

Elective Groups

GROUP- V (Quantitative Economics)

ECO-592- Time Series Analysis & Computer Application (Elective - 4 Credits)

Unit-I

12 Lectures

Time Series Econometrics: Pooling of Time Series and Cross Sectional Data: Panel Data, Difference Between Time Series Analysis and Time Series Econometrics. Tests of Stationarity of Time Series, Unit Root Test, Tests of Causality; Transforming Non-Stationary Time Series Cointegration; Regression of a Unit Root Time Series on Another Unit Root Time Series; Some Economic Application.

Unit-II

14 Lectures

Simultaneous Equation Model: Problems of Estimation of Parameters of Simultaneous Equation Model. Identification Problems: Rank and Order Condition for Identification, Indirect Least Squares Method of Estimation.

Instrumental Variables, Two Stage Least Squares Methods of Estimation, Three Stage Least Squares Methods of Estimation.

Maximum Likelihood Estimation Method: Full Information Method, Partial Information Method.

Unit-III

10 Lectures

Basic of Computer and Languages, MS-Excel, SPSS, e-views.

Unit-IV

12 Lectures

Methods for Estimation of Demand, Supply, Production, Consumption and Cost Functions based on Computer Application.

References:

Computer language and operating systems.

Enders, Time series Econometrics

Gujarati, D. N. (1995), Basic Econometrics (IInd Edition), New Delhi, McGraw Hill.

Henderson, J.M. and Quandt, R.E., Microeconomic Theory: A Mathematical Approach.

Intrilligator, M.D., Econometric Methods, Techniques and Applications.

Intrilligator, M.D., Econometric Methods, Techniques and Applications.

Johnston, J., *Econometric Methods*.
 Johnston and Dinardo, *Econometrics*
 Koutsoyiannis, A. (1997), *Theory of Econometrics* (IInd Edition), London, the Macmillan Press.
 Krishna, K. L., (1997), *Econometric Applications in India*, New Delhi, Oxford University Press.
 Kamenta, J. (1997), *Elements of Econometrics*, New York, University of Michigan Press.
 Klein, L.R., *Introduction to Econometrics*.
 Lange, Oscar, *Introduction to Econometrics*.
 Maddala, a.s. (Ed.) (1993), *Econometrics Method and Applications*, (2 vols.) U. K.; Alders Hot.
 Mehta, B.C., *Mathematical Economics: Microeconomic Models*.
 Manual book on SPSS for computer applications.
 Manual book on MS-Excel.
 Manual book of e-views.
 Nachane, Dilip M.; *Econometrics*.
 Theil, H., *Introduction to Econometrics*.
 Theil, H., *Principles of Econometrics*

Elective Groups

GROUP-V (Quantitative Economics)

ECO-593- Financial Econometrics (Elective - 4 Credits)

Unit-I

12 Lectures

Basic Financial Terms, Concepts and Their Evaluation: Financial Securities- Zero Coupon Bond, Fixed Interest, Index Linked Securities etc.; The Time Value of Money; Nominal Vs. Real Interest, Deflationary Conditions; Accumulating Factors, Force of Interest, Compound Interest Functions; Time Series Econometrics and Time Series Analysis and Their Application.

Stationary Time Series Model: Autocorrelation and Partial Autocorrelation, Auto Regressive and Moving Average Models, Conditions for Stationary and Invertible Process, Box-Jenkins Approach, Forecasting, Permanent Versus Temporary Abruption, Simple Exponential Smoothing and Choice of Parameter, Seasonal Models with Trend, Seasonal Decomposition; Test of Causality- G.C. Test.

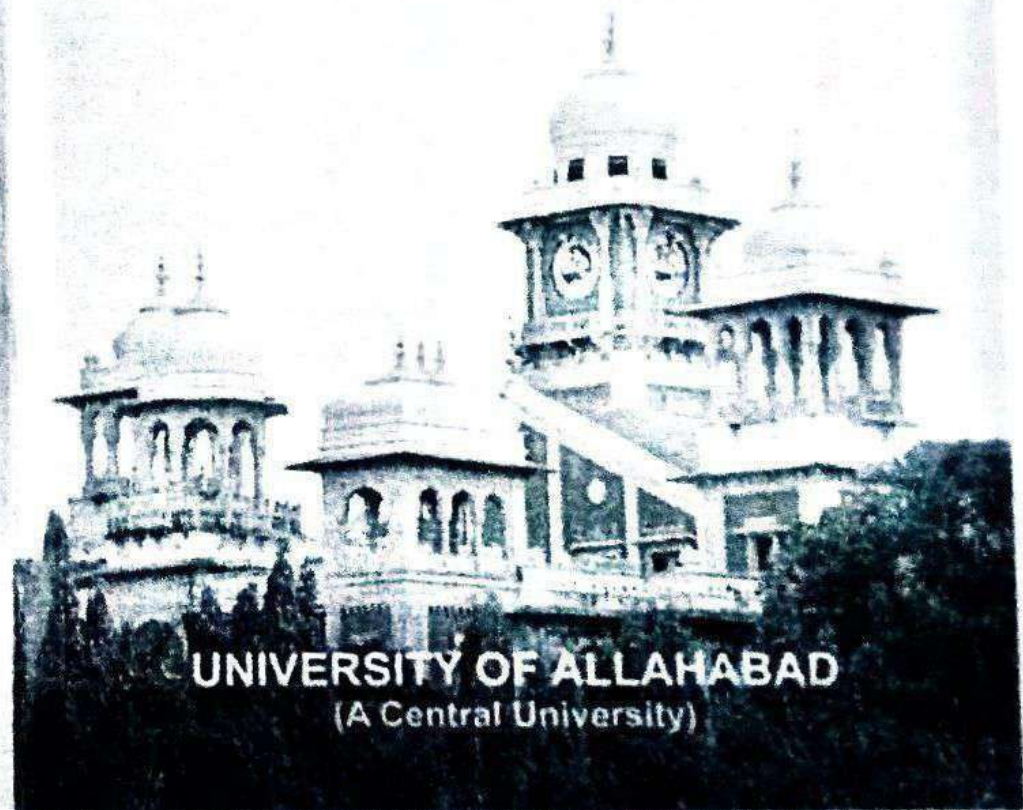


**DEPARTMENT OF EDUCATION
UNIVERSITY OF ALLAHABAD
ALLAHABAD**



**DEPARTMENT OF
EDUCATION**

**NEW SYLLABUS
B.A. I, II, III**



**UNIVERSITY OF ALLAHABAD
(A Central University)**

University of Allahabad Department of Education

About Us

The Department of Education, University of Allahabad is one of the oldest institutions of Education Discipline in the country. The Department got 'A' grade status by NAAC. The Department got UGC SAP project for five year from 2011 to 2015 with focus on Quality Enhancement in Education and Development of Research potentials among Teachers and Researchers in Education. It was established in the year 1942. The stalwarts like Prof. P.S. Naidu, Col. Sohan Lal, Prof. S.B. Adaval, Prof R.S. Pandey and Prof S.K. Pal built academic culture of this department. The Department offers undergraduate and post graduate level courses in the education subject as well as Masters in Education programmes. The doctoral programme in education is also pursued with methodological rigour. The major focus of research in the department has been Philosophy of Education, Sociology of Education, Educational Psychology and Testing and Educational Administration. Of late, the department has initiated studies in the emerging areas of pursuit like open and distance learning, ICT in education and school education. Regular in house colloquiums, seminars, national level workshops and conferences, in service education for professional development of teachers, publication of journals etc. are, some of the prominent features of the Department. The faculty members contributions are well acknowledged at national and international level through their representations in different bodies, participation in seminars and conferences, visits to foreign countries, research publications and conduction of research projects. There have been collaborative efforts with different national and international institutions, corporate sectors and state level organizations to strengthen the functioning of the department.

शिक्षाशास्त्र विभाग

(कला संकाय)

इलाहाबाद विश्वविद्यालय

इलाहाबाद



त्रिवर्षीय कार्यक्रम

लेक्चर लिस्ट (बी० ए० प्रथम खण्ड)

सत्र - 2012-13

बी०ए० प्रथम खण्ड

प्रथम प्रश्नपत्र

B.A. Part I

Paper I

शिक्षा के सिद्धांत

PRINCIPLES OF EDUCATION

पाठ्य वस्तु

इकाई I शिक्षा का अर्थ एवं विषय क्षेत्र, शिक्षा विज्ञान या कला, औपचारिक, गैर औपचारिक व अनौपचारिक शिक्षा।

Unit I: Meaning and scope of education, Education as a Science or art, formal, informal and nonformal education.

इकाई II शिक्षा के उपागम- दार्शनिक, ऐतिहासिक, समाजशास्त्रीय, मनोवैज्ञानिक व वैज्ञानिक।

Unit II: Approaches to education-Philosophical, Historical, Sociological, Psychological and Scientific

इकाई III देश में वर्तमान शैक्षिक परिदृश्य के संदर्भ में शिक्षा के उद्देश्य-ज्ञान अर्जन, चरित्र निर्माण, नागरिकता का प्रशिक्षण, भावात्मक एवम् राष्ट्रीय एकीकरण, अन्तर-राष्ट्रीय अवबोध, शिक्षा के अधिकरण, : गृह, विद्यालय, राज्य तथा समाज

Unit III: Aims education in the context of the present educational scene in the country-knowledge acquisition, character building, training for citizenship, emotional and national integration, inter-national understanding, Agencies of education: Home, School, State and Society.

इकाई IV पाठ्यचर्या एवं पाठ्यक्रम, पाठ्यचर्या के प्रकार, पाठ्यचर्या निर्माण के सिद्धांत, पाठ्यचर्या विकास की विधि, पाठ्यचर्या का एकीकरण, वर्तमान पाठ्यचर्या के दोष।

Unit IV: Curriculum and syllabus, types of curriculum, principles of curriculum construction, Procedure for developing curriculum, integration of curriculum, defects in existing curricula

इकाई V : शैक्षिक नियोजन : अर्थ, प्रकार, मानवशक्ति नियोजन, संस्थागत नियोजन, सूक्ष्म नियोजन, आर्थिक विकास में शिक्षा की भूमिका।

Unit V: Educational planning, institutional planning, microplanning, role of education in economic development

BOOKS RECOMMENDED

1. Pandey, R S. Principles of Education
2. Agarwal, J C. Principles of Education
3. पाण्डेय, राम शकल : शिक्षा के मूल सिद्धांत
4. पाण्डेय, राम शकल : शैक्षिक नियोजन एवं वित्त प्रबन्धन
5. Bhatta, K.K. Principles of Education
6. Bhatta and Bhatta : Theory and Principles of Education
7. अदावल एवं अग्रवाल : शिक्षा के सिद्धांत
8. पाठक, पी०डॉ० एवं त्यागी, जी.एस.डी. : शिक्षा के सामान्य सिद्धांत
9. माधुर, एस.एस. : शिक्षा के सिद्धांत

Gender x Professional Ethics

Human Values x Professional Ethics

**B.A. Part I
PAPER II**

Problems of Indian Education

भारतीय शिक्षा की समस्याएँ

विषय वस्तु :

इकाई I : प्राथमिक शिक्षा : ऐतिहासिक परिप्रेक्ष्य तथा नामांकन, धारण तथा शाला त्याग, अधिगम बोझ, अधिगम के न्यूनतम स्तर, कोर पाठ्यचर्या, गैर श्रेणीकृत विद्यालय, कार्य अनुभव, परीक्षा सुधार तथा प्रबंध के विकेंद्रीकरण से सम्बन्धित समस्याएँ।

Unit I. Primary education: Historical perspectives and problems related to enrolment, retention and drop out, learning burden, minimum levels of learning, core curriculum, non graded school, work experience, examination reforms and decentralization of management.

इकाई II : माध्यमिक शिक्षा: ऐतिहासिक परिप्रेक्ष्य तथा पाठ्यक्रम के विभिन्नीकरण, शिक्षा का व्यवसायीकरण, पाठ्यपुस्तकों, राष्ट्रीयकरण, अधिभावक-शिक्षक संघ तथा परीक्षा सुधार से सम्बन्धित समस्याएँ।

Unit II. Secondary education: Historical perspectives and problems related to diversification of courses, vocationalization of education, textbooks, nationalization, parent-teacher association and examination reforms.

इकाई III : उच्च शिक्षा : ऐतिहासिक परिप्रेक्ष्य तथा प्रवेश, संगठनात्मक प्रतिमान, समान पाठ्यचर्या, अन्तर अनुशासनिक पाठ्यचर्या, नियन्त्रण व समन्वय व्यवस्था, स्वायत्तता, स्ववित्तपोषी कार्यक्रम, अनुशासन, शैक्षिक मानकों को कायम रखने तथा परीक्षा सुधार से सम्बन्धित समस्याएँ।

Unit III. Higher education: Historical perspective and problems related to admission, organisational pattern, uniform curricula, interdisciplinary curricula, control and coordination machinery, autonomy, self financing programme discipline, maintenance of educational standards and examination reforms.

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इकाई IV : प्रौढ़ शिक्षा : इसका अर्थ, ऐतिहासिक परिदृश्य, राष्ट्रीय साक्षरता मिशन, प्रौढ़ शिक्षा में स्वैच्छिक संगठनों की भूमिका, सोखने वालों, प्रशिक्षकों, पाठ्यचर्या व प्रयत्न से सम्बन्धित समस्याएँ।

Unit IV. Adult education: Its meaning, historical perspectives, National Literacy Mission, Role of voluntary agencies in adult education, problems related to learners, trainers, curriculum and management.

इकाई V : राष्ट्रीय शिक्षा नीति, शिक्षा के लिए संवैधानिक प्रावधान, विकलांग व सामाजिक दृष्टि से मुविधाहीन वर्गों की शिक्षा, भाषा विवाद, शैक्षिक अवसरों की समानता।

Unit V. National policy on Education, constitutional provisions for education, Education of handicapped and socially disadvantaged children, Language Controversy, Equality of educational opportunities.

Books Recommended

1. Govt of India : Report of the University Education Commission
2. Govt of India : Report of the Secondary Education Commission
3. Govt of India : Challenges of Education - A Policy Perspective
4. Govt of India : National Policy on Education
5. Altekar, A S : Education in Ancient India
6. Mukherjee, S N : Education in India : Today and Tomorrow
7. गुप्ता, एस.पी. : भारतीय शिक्षा तथा इसकी सामस्याएँ
8. पाण्डेय, राम शकल : भारतीय शिक्षा की समसामयिक समस्याएँ एवं मिश्र, करुणा शंकर
9. पाण्डेय राम शकल एवं : प्रौढ़ शिक्षा मिश्र, करुणा शंकर
10. प्रो० मदन मोहन एवं : भारतीय शिक्षा को उदयोमान समस्याएँ डा० नीता सिन्हा
11. पाण्डेय, रा०श० एवं : भारतीय शिक्षा की ज्वलन्त समस्याएँ मिश्र क० शं०
12. अग्निहोत्री, रविन्द्र : आधुनिक भारतीय शिक्षा : समस्याएँ एवं समाधान
13. अदावल एवं उनियाल : भारतीय शिक्षा की समस्याएँ तथा प्रवृत्तियाँ

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बी०ए० द्वितीय खण्ड

प्रथम प्रश्नपत्र

B.A. Part II

Paper I

शिक्षा दर्शन एवं शैक्षिक समाजशास्त्र

EDUCATIONAL PHILOSOPHY AND SOCIOLOGY

पाठ्यवस्तु (Course Content) :

इकाई I : शिक्षा दर्शन : प्रकृति, क्षेत्र एवं आवश्यकता, भारतीय दृष्टिकोण से दर्शन की अवधारणा।

Unit I Philosophy of education nature, scope and need; Conception of Philosophy from Indian standpoint.

इकाई II प्रकृतिवाद एवं आदर्शवाद : अर्थ, शिक्षा के उद्देश्य, पाठ्यचर्या, शिक्षण विधि एवं अनुशासन।

Unit II Naturalism and Idealism. Meaning, aims of education, curriculum, methods of teaching and discipline.

इकाई III प्रयोजनवाद : अर्थ, शिक्षा के उद्देश्य, पाठ्यचर्या, शिक्षण विधि, अनुशासन, विद्यालय तथा समाज, यथार्थवाद : अर्थ, शिक्षा के उद्देश्य, पाठ्यचर्या, शिक्षण विधि, अस्तित्ववाद : लक्षण तथा शैक्षिक निहितार्थ।

Unit III Pragmatism Meaning, aims of education, curriculum, methods of teaching, discipline, school and society. Realism : Meaning, aims of education, curriculum, methods of teaching, Existentialism Characteristics and Educational implications.

इकाई IV शैक्षिक समाजशास्त्र का अर्थ एवं आवश्यकता, संस्कृति तथा शिक्षा, सामाजिक स्तरीकरण तथा इसका शिक्षा पर प्रभाव।

Unit IV Meaning and need of educational sociology, Culture and education, social stratification and its effect on education.

इकाई V शिक्षा एवं सामाजिक गतिशीलता, शिक्षा एवं सामाजिक परिवर्तन-शहरीकरण तथा आधुनिकीकरण, भारतीय समाज की प्रकृति तथा इसका शिक्षा पर प्रभाव, शिक्षा में भविष्य विज्ञान।

Unit V Education and Social mobility; Education and social change-urbanization and modernization, Nature of Indian

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Gender

society and its impact on education. Futurology in Education.

Books Recommended

1. Chaube, S.P. and Chaube, A. : Philosophical and Sociological Foundations of Education
2. Pandey, R.S. : Education in Emerging Indian Society
3. Rusk J. : Philosophical Bases of Education

4. ओड, एल.के. : शिक्षा का समाजशास्त्रीय और दार्शनिक पीठिका

5. पाण्डेय, राम शकल : शिक्षा की दार्शनिक एवं समाजशास्त्रीय पृष्ठभूमि

6. शर्मा, उमा-रानी : शिक्षा के समाजशास्त्रीय आधार

7. मिश्रा, उषा : शिक्षा का समाजशास्त्र

8. Passi, B.K. and Sahoo P.K. Futurology in Education

9. Passi, B.K. and Sahoo P.K. Future Studies in Education

10. पाल, एस.के. एवं गुप्त, एल.एन. शिक्षा के सिद्धांत और आधार

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बी0 ए0 द्वितीय खण्ड

द्वितीय प्रश्नपत्र

B.A. Part II

Paper II

शिक्षा मनोविज्ञान

EDUCATIONAL PSYCHOLOGY

पाठ्यवस्तु (Course Content)

इकाई I शिक्षा मनोविज्ञान का स्वरूप, विषय क्षेत्र तथा विधियाँ, बुद्धि एवम् विकास के सिद्धांत, सीखने वाले का बौद्धिक, संवेगात्मक तथा सामाजिक विकास, वैयक्तिक विभिन्नताएँ और उनके शैक्षिक अनुप्रयोग।

Unit I Nature, scope and methods of educational psychology; Principles of growth and development. Intellectual, emotional and social development of the learner. Individual differences and their educational implications

इकाई II बुद्धि तर्क एवं समस्या समाधान का स्वरूप, बुद्धि के सिद्धांत, बुद्धि का मापन एवं एक मापन उपकरण का अध्ययन, सृजनात्मकता-ठसका स्वरूप तथा इसके विकास हेतु शैक्षिक प्रावधान, सृजनात्मकता के एक मापन उपकरण का अध्ययन।

Unit II Nature of intelligence, reasoning and problem solving, theories of intelligence, measurement of Intelligence and study of one tool for its measurement, Creativity-its nature and educational provisions for developing it, measurement of creativity and study of one tool for its measurement.

इकाई III व्यक्तित्व का स्वरूप, व्यक्तित्व के सिद्धांत, व्यक्तित्व मापन एवं किसी एक मापन उपकरण का अध्ययन, मानसिक स्वास्थ्य की अवधारणा, विद्यालयी बालक के मानसिक स्वास्थ्य के सिद्धांत, व्यवहारिक समस्याएँ तथा समायोजन, मानसिक स्वास्थ्य को प्रभावित करने वाले कारक, मानसिक स्वास्थ्य हेतु बालक को निर्देशन।

Unit III Nature of personality, Theories of personality, Personality assessment and study of one tool for its measurement

Concept of mental health, Principles of mental health of the school child, behavioural problems and adjustment, factors influencing mental health, guidance of the individual child for mental health

इकाई IV अधिगम का स्वरूप, अधिगम के सिद्धांत- उद्दीपन अनुक्रिया सिद्धांत, अनुकूलित अनुक्रिया सिद्धांत, गेस्टाल्ट सिद्धांत, क्रिया प्रसृत अनुबन्धन सिद्धांत तथा इनके शैक्षिक निहितार्थ। अधिगम का स्थानान्तरण, स्थानान्तरण के सिद्धांत, स्थानान्तरण की दशाएँ, अभिप्रेरणा-इसकी प्रकृति, अधिगम में इसका महत्व, छात्रों को अभिप्रेरित करने हेतु युक्तियाँ, अभिप्रेरण के सिद्धांत।

Unit IV Nature of learning, Theories of learning-Stimulus response theory, Conditioned response theory, Gestalt theory, Operant conditioning theory and their educational implications. Transfer of learning, theories of transfer, conditions for transfer, Motivation-its nature, role in learning strategies for motivating students, principles of motivation

इकाई V समूह गत्यात्मकता : इसका अर्थ, कक्षा एक समूह के रूप में सामाजिक अन्तरक्रिया, नेतृत्व - श्रेणियाँ, प्रभावित करने की शक्ति एवं नेतृत्व, नेता के गुण, सामाजिक अधिगम बढ़ाने में नेता की भूमिका।

Unit V Group dynamics, meaning, class as a group, social interaction, leadership categories, power to influence and leadership, characteristics of leaders, role of leader in facilitating social learning

Books Recommended

1. Bernald. H.W Psychology of Learning and teaching
2. Bigge M.L and Hunt, M.P Psychological Foundations of Education
3. Chauhan S.S Advanced Educational psychology
4. Crow, L.D & Hunt, M.P Educational Psychology
5. Hagar, E.R. and Bower, G.H. Theories of Learning

- | | |
|---------------------------|--|
| 6. Hurlock, E.B. : | Child Development |
| 7. Mathur, S.S. : | Educational Psychology |
| 8. Skinner, C.E. : | Educational Psychology |
| 9. Sharma, R.A. : | Fundamentals of Educational Psychology |
| 10. पाण्डेय, राम शकल : | शिक्षा मनोविज्ञान |
| 11. माथुर, एस.एस. : | शिक्षा मनोविज्ञान |
| 12. सिंह, धर्मराज : | शिक्षा के मनोविज्ञानिक आधार |
| 13. गुप्त, मुरली प्रकाश : | आधुनिक शिक्षा मनोविज्ञान |
| 14. सिंह, अरूण कुमार : | शिक्षा मनोविज्ञान |

शिक्षाशास्त्र विभाग

(कला संकाय)

इलाहाबाद विश्वविद्यालय
इलाहाबाद



त्रिवर्षीय कार्यक्रम
लेक्चर लिस्ट (बी० ए० तृतीय खण्ड)
सत्र - 2014-15

बी०ए० तृतीय खण्ड

प्रथम प्रश्नपत्र

B. A. Part III

Paper I

शिक्षा में मापन, मूल्यांकन एवं क्रियात्मक शोध MEASUREMENT, EVALUATION AND ACTION RESEARCH IN EDUCATION

पाठ्यवस्तु (Course Content)

इकाई I. मापन और मूल्यांकन : अर्थ, क्षेत्र तथा उद्देश्य, एक अच्छे मापन उपकरण के गुण, संरचनात्मक तथा योगात्मक मूल्यांकन, विश्वसनीयता, वैधता एवं मानक।

Unit I : Measurement and evaluation their meaning, scope and purpose. Qualities of a good measuring instrument, Formative and Summative Evaluation, Reliability, Validity and Norms

इकाई II. संज्ञानात्मक, अनुभावात्मक तथा मनोचालक क्षेत्र के शैक्षिक उद्देश्यों का वर्गीकरण, निबन्धात्मक तथा वस्तुनिष्ठ परीक्षण, वस्तुनिष्ठ प्रकार के परीक्षण पदों के प्रकार, निष्पत्ति परीक्षण के निर्माण तथा मानकीकरण की विधि, निकष सन्दर्भित तथा मानक सन्दर्भित परीक्षण।

Unit II : Taxonomy of educational objectives of cognitive, affective and psychomotor domains, Essay type and Objective types tests, Types of objective type test items, Procedure for constructing and standardizing an achievement test, Criterion versus norm referenced tests.

इकाई III. क्रियात्मक अनुसंधान का प्रत्यय, क्रियात्मक अनुसंधान का अर्थ एवं परिभाषाएँ, मौलिक अनुसंधान से इसका भेद, क्रियात्मक अनुसंधान हेतु समस्याएँ, शिक्षा में क्रियात्मक अनुसंधान की आवश्यकता, शिक्षा में क्रियात्मक अनुसंधान हेतु समस्याओं की पहचान।

Unit III : Concept of action research, Meaning and definitions of action research, its difference from fundamental research, Problem for action research, Need of action research in

education, identification of problems for action research in education.

इकाई IV. क्रियात्मक अनुसंधान का अभिकल्प : क्रियात्मक अनुसंधान रूपन करने हेतु विभिन्न प्रकार के शोध अभिकल्प। शोध प्रतिवेदन : एक अच्छे शोध प्रतिवेदन के लक्षण।

Unit IV : Action Research Design : Types of Research Designs for conducting action research, Report writing, Characteristics of a good action research report.

इकाई V. आवृत्ति वितरण तथा प्रदत्तों का रेखाचित्रोप प्रस्तुतीकरण, केन्द्रीय प्रवृत्ति की मापें - मध्यमान, माध्यिका तथा बहुलक, विचलनशीलता की मापें : मानक विचलन, चतुर्थांश विचलन, श्रेणीक्रम सहसम्बन्ध, ग्रेडिंग तथा अंकों की स्केलिंग, सामान्य प्राचिकता वक्र के लक्षण तथा उपयोग।

Unit V : Frequency distribution and graphical presentation of data, measures of central tendency-mean, median and mode, measures of variability-standard deviation and quartile deviation, Rank Correlation, grading and scaling of marks, characteristics and uses of normal probability curve.

Books Recommended

1. Bloom, B.S. et al. : Taxonomy of Educational objectives cognitive Domain
2. Ebel, H.E. : Essentials of Educational Measurement
3. गुप्ता, एस.पी. : शैक्षिक मापन व मूल्यांकन
4. भार्गव, महेश : आधुनिक मनोविज्ञान परीक्षण एवं मापन
5. अम्बाना, विपिन : मनोविज्ञान और शिक्षा में मापन एवं मूल्यांकन
6. A.I.U. : Monograph of Grading for Universities
7. Freeman, F.S. : Theory and practice of Psychological Testing
8. Garret, H.E. : Statistics in Psychology and Education
9. Gronlund, N.E. : Measurement and Evaluation in Teaching
10. Sax, G. : Principles of Educational Measurement and Evaluation.

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प्रथम प्रश्नपत्र

B.A. Part III

PAPER II

भारतीय पाश्चात्य शिक्षाविद

INDIAN AND WESTERN EDUCATORS

पाठ्यवस्तु (Course Content)

प्रत्येक इकाई में उल्लिखित शिक्षाविदों के शैक्षिक विचार एवं प्रमुख योगदान-
Educational ideas and main contributions of educators mentioned in each unit.

इकाई I. सर सैयद अहमद खान तथा मदन मोहन मालवीय

Unit I Sir Syed Ahmed Khan and Madan Mohan Malviya

इकाई II. रविन्द्र नाथ टैगोर तथा स्वामी विवेकानन्द

Unit II Rabindra Nath Tagore and Swami Vivekanand

इकाई III. महात्मा गाँधी तथा राधाकृष्णन

Unit III Mahatma Gandhi and Radhakrishnan

इकाई IV. प्लेटो तथा रूसो

Unit IV Plato and Rousseau

इकाई V. जॉन डेवी तथा बर्ट्रैंड रसेल

Unit V John Dewey and Bertrand Russel

Books Recommended

1. Chaube, S P. Recent Educational Philosophies in India
2. Dewey, J. : Democracy and Education
3. Rusk, J. Doctrines of Great Educators
4. Pandey, Ram Shakal & Sharma, Uma Rani Russel on Education
5. Pandey, Ram Shakal & Sharma Uma Rani Social and Educational Ideas of Radhakrishnan.
6. Graves, F.P Great Educators of three countries
7. Pandey R S. A Survey of Education Thought
8. Patel, M S. The Educational Philosophy of Mahatma Gandhi
9. Quick : Essays on Educational Reformers
10. Rusk Doctrines of Great Educators
11. पाण्डेय, रामशकल : विश्व के श्रेष्ठ शिक्षाशास्त्री

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तृतीय प्रश्नपत्र

B. A. Part III

PAPER III

शिक्षा में उदभूत प्रवृत्तियाँ

EMERGING TRENDS IN EDUCATION

पाठ्यवस्तु (Course Content)

इकाई I. मूल्य शिक्षा : मूल्यों की प्रकृति तथा प्रकार, मूल्य शिक्षा का अर्थ और उसकी आवश्यकता मूल्यों के विकास में पाठ्यसहगामी क्रियाओं की भूमिका, नानाधिकार शिक्षा, शान्ति के लिये शिक्षा।

Unit I Value Education: Nature and Types of values, Meaning of value education and its need, Role of co-curricular activities in development of values, Human Right Education, Education for peace

इकाई II. पर्यावरणीय शिक्षा : अर्थ व उद्देश्य, पर्यावरणीय प्रदूषण, जल वायु तथा ध्वनि, पर्यावरणीय संरक्षण, प्रकृति तथा संव्यवहन।

Unit II Environmental education: meaning and aims, environmental pollution-water, air and sound, environmental protection-nature and strategies

इकाई III. जनसंख्या शिक्षा : जनसंख्या विस्फोट के कारण तथा प्रभाव, जनसंख्या शिक्षा के अर्थ उद्देश्य तथा आवश्यकता।

Unit III Population Education: Causes and effects of population explosion, meaning, aims and need of population education

इकाई IV. शैक्षिक प्रौद्योगिकी : अर्थ, उपागम-हार्डवेयर, सॉफ्टवेयर तथा प्रणाली, भाषा प्रयोगशाला, शैक्षिक दूरदर्शन, कम्प्यूटर सहायित अनुदेशन: प्रमुख लक्षण लाभ और सीमाएँ, ई-लर्निंग : अर्थ, विधियाँ और घटक।

Unit IV Educational Technology: Meaning, Approaches Hardware Software and system, Language Laboratory, Educational Television, Computer assisted Instruction: main Features advantages, and Limitations, E-learning: Meaning, Modes of learning and components

इकाई V दूरस्थ शिक्षा : अर्थ व आवश्यकता , मुक्त विद्यालय व मुक्त विश्वविद्यालय, उद्देश्य, शैक्षिक कार्यक्रम तथा संगठनात्मक ढांचा।

Unit V Distance Education : Meaning and need , open school and open University - Aims, Educational Programmes and organizational pattern.

Books Recommended

1. Morrill, R.L. : Teaching Values in College
2. Nanda, S.K. : Population Education
3. Rath L.E. M Harmin : Values and Teaching
& S.P Simon
4. Ruhela, S.P. : Human Values and Education
5. Sharma R.A. : Distance Education
6. ओड, एल. के. : शिक्षा के नूतन आयाम
7. ठपाध्याय, प्रतिभा : भारतीय शिक्षा में नवीन प्रवृत्तियां
8. पाण्डेय, रामशकल
एवं मिश्र करुणा शंकर: मूल्य शिक्षण
9. पाण्डेय, कल्पलता : दूरवर्ती शिक्षा
10. बाजपेयी, एल. बी. : शिक्षा में नवाचार एवं तकनीकी
11. मिश्रा, उषा : पर्यावरण शिक्षा
12. शर्मा, आर.ए. : शिक्षा तकनीकी
13. शर्मा, आर.ए. : पर्यावरण शिक्षा
14. Sahoo, P.K. : Open Learning System
15. Behera, S.C. : Educational Television Programme
- 16- Gupta, N.L. : Value Education
- 17 Lakshmi, L. : Innovations in Education
- 18 Rao, V K. : Environmental Education
19. Chauhan, S.S. : Innovations in Teaching and Learning Process
- 20 Pandey, S. : Education for Peace, self Instructional Package for Teacher Educators, NCERT
- 21 National Curricular Framework, 2005 Position Paper
National Focus Group on Education for peace, NCERT

- 22 Shand, H. : Teaching Human Rights : A Hand book for Teacher Education
- 23 Elbers, F. : Human Rights Education Resource Book
- 24 तलेसरा, एच. : मानव अधिकार एवं शिक्षा
व पंथौली, एन
- 25 Bhaskar Rao, D. : Human right Education
26. सिन्हा, नंता : पर्यावरणीय एवं जनसंख्या शिक्षा
- 27 Sahoo, P.K. : Educational Technology in Distance Education
- 28 Mohanty, J. : Educational Technology

DEPARTMENT OF EDUCATION
UNIVERSITY OF ALLAHABAD

M.A. – EDUCATION

(2 Year - 4 Semester Programme)

COURSE STRUCTURE

(W.E.F. 2016)

MA I Semester	MA II Semester	MA III Semester	MA IV Semester
EDU 501 Philosophical foundation of education :Western 5CREDIT	EDU 505 Philosophical foundation of education : Indian. 5 CREDIT	EDU 601 Comparative Education 5 CREDIT	EDU 605 Educational Technology 5 CREDIT
EDU 502 Sociological foundation of education 5CREDIT	EDU 506 Quantitative and qualitative analysis of data. 5 CREDIT	EDU 602 Educational measurement and evaluation 5 CREDIT	EDU 606 Educational administration and management. 5 CREDIT
EDU 503 Development of Learner 5CREDIT	EDU 507 Psychology of learning. 5 CREDIT	EDU 603 Contemporary issues in education. 5 CREDIT	Elective – Any one of the following EDU 651 Project/Dissertation EDU 652 Inclusive Education EDU 653 Teacher Education EDU 654 Guidance and Counselling EDU 655 Curriculum Studies 5 CREDIT
EDU 504 Methods and procedures of research in education. 5CREDIT	EDU 508 Field work and Practical 5CREDIT	EDU 604 Environmental Education 5 CREDIT	EDU 631 Field work & Practical 5 CREDIT
20 CREDIT	20 CREDIT	20 CREDIT	20 CREDIT
			TOTAL 80 CREDIT
PERIODS= 4 PERIODS TEACHING 5 DAYS =20 PERIODS	3 PERIODS TEACHING 5 DAYS 2 PERIODS LIBRARY WORK ,TUTORIAL ,G.D. 5 DAYS 15+10=25 PERIODS	4 PERIODS TEACHING 5 DAYS =20 PERIODS	FOR NON PROJECT STUDENTS 3 PERIODS 5 DAYS 2 PERIODS LIBRARY WORK 5 DAYS 15+10=25 PERIODS PROJECT STUDENTS 2 PERIODS 5 DAYS (10) 2 PERIODS 5 DAYS PROJECT (10) 2 PERIODS 5 DAYS LIBRARY =30 PERIODS

Note: candidates scoring 60% and above will be allowed for opting dissertation

M.A. – Education

Evaluation Pattern of Theoretical Papers

Internal Assessment in each paper – 40 marks

Test I – 20 marks

Assignment in each paper – 20 marks

Best of Test I and Assignment -20 marks

Mid-term examination in each paper – 20 marks

Semester End examination in each paper – 60 marks

Evaluation Pattern of EDU 508 , EDU 651 & EDU 631

40% internal assessment shall be done by the teacher concerned deputed for the same on the basis of overall performance of the candidate in different areas .

60% marks will be assigned for end-semester examination. Evaluation will be done by the panel of two examiners on the basis of record and presentation by each candidate. The panel will consist of Head and one Faculty member of Education Department, University of Allahabad

EDU 501
PHILOSOPHICAL FOUNDATIONS OF EDUCATION –WESTERN

Unit I

- Meaning and nature of Philosophy
- Scope of Philosophy of Education
- Relationship between Philosophy and Education
- Need and functions of Philosophy of Education
- Approaches to Philosophy of Education: Great minds approach, school of philosophy approach and analytical approach.

Unit II

- Naturalistic approach to education
 - Idealistic approach to education
- With special reference to metaphysics, epistemology, axiology and their educational implications.

Unit III

- Realism in Education
- Pragmatism in Education

With special reference to metaphysics, epistemology, axiology and their educational implications

Unit IV

- Marxism in Education : Characteristic and educational implications
- Humanism in Education : Characteristic and educational implications

Unit V

Characteristic as school of philosophy and educational implications

- Existentialism : Characteristic and educational implications
- Logical positivism : Characteristic and educational implications

Suggested Readings

Brubacher : Modern Philosophies of Education.

- Henderson: Introduction to Philosophy of Education.
Horn: Democratic Philosophy.
Butler: Four Philosophies: Their Practice in Education and Religion.
Will Durant: The Story of Philosophy.
Cunningham: Problems of Philosophy.
Cunningham: Pivotal Problems of Education.
Butts: A Cultural History of Education.
Wynne J.P. : Philosophy of Education in Cultural Perspective.
Brameld : Philosophy of Education in Cultural Perspective.
Kneller G.F.: Philosophy of Education.
O.Connor,D.G.: Introduction of Philosophy of Education.
Collins: The Existentialism.
Eric Fromm : Marx's Concept of Man .
Tutus: Living Issues in Philosophy.
Wingo G.: Philosophies of Education

EDU 502

SOCIOLOGICAL FOUNDATIONS OF EDUCATION

Unit – 1 Sociology of Education

- Origin and development of Sociology of Education
- Nature and scope of Sociology of Education
- Methods of study in Sociology of Education

Unit II Education and social system

- Social system-concept and elements of social system
- Education as a social subsystem
- Role of family, community, economy, political system and religion as a social sub system

Unit III Education and culture

- Culture: Functional characteristic, cross culture transmission
- Characteristic of Indian culture

- Role of education in the process of assimilation of Indian tradition and development of new cultural pattern

Unit – 4 Education, Social Control, Social Change and Modernization

- Social control: nature, agencies and role of education in social control
- Social change: concept of social change and modernization, factors promoting social change and modernization in India, constraints on social change and modernization in India.
- Social mobility and education

Unit – 5 Important concerns and Issues in Education

- Social stratification, social equity and equalization of educational opportunities
- Education of the socially and economically disadvantaged section of society with special reference to scheduled caste, scheduled tribe, women and rural population
- Youth Movement in India, De schooling and Futurology

Suggested Readings

Cook, L.A. & E.F. Cook	: A Sociological Approach to Education
Rugg & Wither	: Social Foundation of Education
Ashley, B.S. et al.	: An Introduction to the Sociology of Education
Musgrave, P.W	: The Sociology of Education
Merrill, F.E.	: Society and Culture
Brown, F.J.	: Educational Sociology
Morrish, Ivor	: The Sociology of Education-An Introduction
Ruhela, S.P. & K.S. Vyas	: Sociological Foundation of Education in Contemporary India
Brenback, Cole.S.	: Sociological Foundation of Education
Prelins, A.P. & Parelins R.J.	: The Sociology of Education
Stalcup, R.J.	: Sociology and Education
Ottaway, A.K.C.	: Education and Society
Mishra, U.	: ShikshaKaSamajshastra

EDU 503
DEVELOPMENT OF LEARNER

UNIT-1

- Development- Stages, Principles, Nature- Nurture balance
- Language Development- Factors influencing it, Theories

Unit-2

- Cognitive Development- Stages, Theories of Piaget and Bruner and their educational implications
- Moral Development- Factors influencing it, Theories of Freud, Piaget, Kohlberg and Turiel, Moral Judgement and Moral Behaviour

Unit-3

- Development of Social Competence- Concept, Factors influencing it.
- Development of Emotional competence- Concept, Factors influencing it.

Unit-4

- Intelligence- Concept, Theories, Measurement of intelligence
- Personality- Concept, Theories of Freud, Erickson, Eysenck, Rogers, Cattell, Measurement of personality

Unit-5

- Stress- Concept, Factors influencing Stress among learners
- Mental Health- Concept, Process of adjustment, Conflict, Defence mechanism

Suggested Readings

Bischof	: Interpreting Personality Theories
Blum	: Psychoanalytic Theories of Personality
Bass & Berg	: Objective Approaches to Personality Assessment
Holland Lindzey	: Theories of Personality
Wadsworth, B.J.	: Piaget for the Classroom

Slavin, R. E.	: Educational Psychology
Mangal, S. K.	: Advance Educational Psychology
Brainerd	: Piaget theory of Intelligence
Briner	: Relevance of Education
Mehta, C.S.	: ShikshakiPrakriya
Flavell	: Developmental Psychology
Bee	: Developing Child
Misra, K.S.	: ShikshaManovigyankenayekshiti
Jersild	: Psychology of Adolescence

EDU 504

METHODS AND PROCEDURES OF RESEARCH IN EDUCATION

Unit-1

- Educational Research: meaning, nature, need, purpose and scope
- Types of Educational Research: fundamental, applied and action research.
- Quantitative and qualitative research
- Mixed methodological approach
- Steps of conducting educational research: identification of problem, writing research proposal

Unit - 2

- Review of related literature: needs and procedures
- Research hypothesis: types, sources and functions.
- Population and sample: types of sampling- probabilistic and non-probabilistic sampling
- Sampling design

Unit - 3

- Tools and techniques of data collection: - observation, interview, questionnaire, tests rating scale, attitude scale, sociometry

Unit - 4 Methods of research

- Experimental research, experimental designs, true experiment, quasi experiment and ex-post facto research.
- Survey research: types, cross sectional and longitudinal, evaluation research, correlational studies

Unit-5

- Historical research and philosophical research
- Qualitative research approaches: phenomenology, ethnography, grounded theory, case study
- Writing research report, references and bibliography, assignment, review of literature, writing proposal

Suggested Readings

- Cohen L. Manion L and Morrison: Research methods in Education
- Creswell, John W. : Educational Research
- Kerlinger F. N. : Foundations of Behavioural Research
- Van Dalen : Understanding Educational Research
- Cory : Action Research to Improve School Practices
- Gage (Ed.) : First Handbook of Research on Teaching
- Fox, D.J. : The Research Process in Education
- Tuckman : Conducting Educational Research.
- Edwards, A.L. : Statistical Methods of the Behavioural Sciences.
- Ferguson, G.A. : Statistical Analysis in Psychology and Education.
- Guilford, J.P. : Fundamental Statistics in Psychology and Education.
- Lindquist, E.F. : Statistical Analysis in Educational Research.
- Siegal, S. : Non-Parametric Statistics.
- Walker, H.M. and Lev, J. : Statistical Reference.
- Lowrance, W. Neuman : Social Research Methodology: Qualitative and Quantitative Approach.
- Koul, L. : Methodology of Educational Research.
- Agarwal, Y.P. : Statistical Methods.
- Best, J.W. & Kahn, J.V. : Research in Education.
- Pandey, K.P. : Educational Research.

EDU 505
PHILOSOPHICAL FOUNDATIONS OF EDUCATION-INDIAN

UNIT 1

- Introduction of Indian Philosophy
- Main characteristics of Indian Philosophy
- Historical review of Indian Philosophy
- Classification of Indian Philosophical System.

UNIT 2

Indian Schools of Philosophy ; Orthodox-

- Samkhya,
- Yoga,
- Vedant
- Geeta

with special reference to the concept of knowledge, reality, values & their educational implications.

UNIT 3

Indian Schools of Philosophy ; Herterodox-

- Jainism,
- Buddhism,
- Islamic traditions

with special reference to the concept of knowledge, reality, values & their educational implications.

UNIT 4

Contributions of Indian Thinkers

- Vivekananda
- Mahatma Gandhi
- Aurbindo
- Tagore

UNIT 5

- Democratic Ideas and their implications for education.
- National values enshrined in Indian constitution

Suggested Readings :

- Radhakrishnan : Indian Philosophy
- Hiriyana : Outline of Indian Philosophy

EDU 506

QUALITATIVE AND QUANTITATIVE ANALYSIS OF DATA

Unit – 1

- Descriptive Statistics
- Quantitative classification of Data: Preparation of Frequency Distribution, Graphical Presentation of Data.
- Measure of Central Tendency and Variability: Mean, Median, Mode, Standard Deviation and Quartile Deviation.
- Measure of Positions: Percentiles, Quartiles, Percentile Ranks.

Unit-2

- Normal distribution: Characteristics of Normal Distribution Curve, Kurtosis and Skewness, Practical use of NPC and its application in educational research.
- Measure of Relationships: Product Moments Correlation Coefficient, Partial Correlation, Multiple Correlation, Biserial, Point Biserial, Tetrachoric and Phi-coefficient of correlation
- Regression and Prediction

Unit – 3

- Parametric and Non-Parametric Data: Meaning and Difference
- Parametric Test
- Test of Statistical Significance
- Sampling Distribution
- Significance of Mean, Percentages and Correlation.
- Significance of Difference Between two Mean (t-test)
- Testing Null Hypothesis (H_0), level of Significance, Degree of Freedom
- One tailed and Two tailed test

- Type-I and Type-II Error in Decision Making
- One Way Analysis of Variance (ANOVA)-F test.

Unit-4

- Non Parametric Tests- Chi-Square Test, Mann Whitney U-Test, Median Test, Sign Test

Unit – 5

- Field Techniques: Observation, Interview, Review of Documents, Content Analysis, Triangulation of Data.
- Criteria of Qualitative Research: Authenticity, Community, Voice, Critical Subjectivity and Reflexivity, Sacredness

Suggested Readings

- Cohen, Manion, Morrison : Research Methods in Education
- Cresswel : Educational Research
- Kerlinger : Foundations of Behavioural Research
- Val Dalen : Understanding Educational Research
- Young : Scientific Social Surveys and Research
- Good.Barr and Scates : Methodology of Educational Research
- Travers : An Introduction to Educational Research
- Verma,M. : An Introduction to Educational and Psychological Research
- Van Dalen : Understanding Educational Research
- Cory : Action Research to Improve School Practices
- Gage (Ed.) : First Handbook of Research on Teaching
- Fox,D.J. : The Research Process in Education
- Tuckman : Conducting Educational Research.
- Edwards,A.L. : Statistical Methods of the Behavioural Sciences.
- Ferguson,G.A. : Statistical Analysis in Psychology and Education.
- Guilford,J.P. : Fundamental Statistics in Psychology and Education.
- Lindquist,E.F. : Statistical Analysis in Educational Research.
- Siegal,S. : Non-Parametric Statistics.
- Walker,H.M. and Lev,J. : Statistical Reference.
- Lowrance, w. Neuman : Social Research Methodology: Qualitative and Quantative Approach.

- Koul,L. : Methodology of Educational Research.
- Agarwal, Y.P. : Statistical Methods.
- Best, J.W. & Kahn, J.V. : Research in Education.
- Pandey, K.P. : Educational Research.

EDU 507 PSYCHOLOGY OF LEARNING

Unit-1

- Learning- Concept, Theories of learning - Thorndike, Pavlov, Skinner, Hull, Lewin, Tolman, Insight theory, Social learning theory.
- Factors influencing learning
- Constructivism

Unit-2

- Transfer of Learning- Concept, Factor influencing transfer of learning, Theories
- Motivation- Concept, Role of motivation in learning, Theories, Strategies for developing motivation

Unit-3

- Learning of concept and principles - Nature, Concept formation, Concept mapping, Factor influencing learning of concepts and principles
- Mastery learning
- Gagne's view on learning
- Role of Advance Organizer in learning

Unit-4

- Creativity- nature, Factor influencing creativity, Measurement of creativity
- Problem solving- Nature, Factor influencing problem solving

Unit-5

- Learning styles

- Group dynamics and learning

Suggested Readings

Ausubel, D.P. and Robinson	: Social Learning; An Introduction to Educational Psychology
Dececco and Crawford	: The Psychology of Learning and Instruction
Gulati, S.	: Education for Creativity
Hilgard, E.R.	: Theories of Learning
Slavin, R.E.	: Educational Psychology
Vygotsky, R.E.	: Educational Psychology
Mangal, S.K.	: Advanced Educational Psychology
Misra, K.S.	: Shikshamanovigyankenyekshiti
Cofer Appley	: Motivation: Theory and Adjustment

EDU 508 FIELD WORK & PRACTICAL

- Review of book of an eminent educationist
- Quantitative analysis through MS-EXCEL
- Testing of Intelligence/Personality and Creativity/Learning Style
- Survey of any one educational institution

EDU 601 COMPARATIVE EDUCATION

Unit – Meaning, nature and scope of comparative education

- Meaning nature and scope of comparative education, objectives of comparative education
- Approaches : Regional, national and international, intra and inter educational analysis

Unit – 2 Methods and factors of comparative education

- Methods of comparative education- Descriptive, socio-cultural, scientific and statistical
- Factors influencing national system of education: Geographical, economic, linguistic, regional, democracy, socialism, humanism

Unit – 3 Comparative education structures with reference to school education

- Primary education : USA, UK, Japan and India
- Secondary and vocational education : USA, UK, France, Japan and India

Unit – 4 Comparative educational structures with reference to higher education, teacher education and distance education

- Higher education, teacher education and professional education: USA, UK, India
- Distance education: USA, UK, India

Unit – 5 International perspective of education

- Educated unemployment in USA, UK and India
- Various official organizations of UNO and their role in educational development
- Recommendations of Delor's commission report

Suggested Readings

- Bearday : Comparative Methods in Education
- Hans : Comparative Education
- Kandel : Studies in Comparative Education

EDU 602

EDUCATIONAL MEASUREMENT AND EVALUATION

Unit – 1

- Concept, need and importance of educational measurement and evaluation
- Taxonomies of Educational Objectives in cognitive, affective and psychomotor domains
- Scales of measurement, norm referenced and criterion referenced, formative and summative evaluation

Unit – 2

- Test reliability – various types, factors affecting it, improving reliability
- Test validity – various types, factors affecting it
- Test norms – various types and their uses

Unit-3

- Development and standardization of test – steps of test development with an emphasis on item analysis. Improving test quality through item analysis

Unit – 4

- Construction of Likert and Thurstone type Attitude scales, Study of some tools for measuring intelligence, personality, aptitude, interest, creativity

Unit- 5

- Evaluation programme, institutional programme, methods of feedback to students
- **New trends in evaluation- examination reforms**, grading system, scaling, continuous internal assessment, semester system, question bank, use of computer in examination. CBCS, CCE, Open book examination, examination on demand, online examination
- T-score, Z-score, C-score and Normalized score

Suggested Readings

Anastasi, A.	: Psychological Testing
Bloom, B. S.	: Taxonomy of Educational Objectives
Bloom et al.	: Handbook on Formative and Summative Evaluation
Chiselli	: Theory of Psychological Measurement
Cronbach	: Essentials of Psychological Testing
Ebel	: Essentials of Educational Measurement
Lehman	: Measurement and Evaluation in Psychology and Education
Payne	: Educational and Psychological Measurement
Srivastava	: Reforming Examination
Thorndike and Hagen	: Measurement and Evaluation in Psychology

EDU 603
CONTEMPORARY ISSUES IN EDUCATION

Unit – 1 Elementary Education

- Universalization of Elementary Education (UEE)
- Role of SarvaShikshaAbhiyan (SSA) in enrolment, retention and quality of elementary education
- Different schemes adopted by government and non-government organization of UEE
- Decentralized management in elementary education
- Teacher empowerment programmes organized by DIETs and other agencies

Unit – 2 Secondary Education

- The linkage between secondary education and higher education and the world of work
- Quality parameters in secondary education
- Vocationalization of secondary education : need, possibilities and constraints
- Empowerment of secondary teachers by NCERT, IASEs and CETs

Unit – 3 Higher Education

- Quality parameters in higher education
- Role of national bodies like UGC, AICTE, NCTE and NAAC in promotion of general and professional education
- Priorities in higher education as envisaged by National Knowledge Commission Report
- Empowerment of university and college teachers by Human Resource Development Centre (HRDC)

Unit – 4 Globalization and Education

- Globalization: Concept and its impact on education
- The role of public and private sector in development of higher education in India
- The scope of private universities and foreign universities in India as well as the scope of Indian Universities abroad

Unit – 5 Human Rights Education

- Concept, need and relevance of human rights education
- Methods and techniques of human rights education
- Rights of child: provision in international and national documents

- Rights of women : provision in international and national documents, women empowerment

Suggested Readings

1. Govt. of India, Education for National development, report of Education Commission 1964-66 (Reprint NCERT, New Delhi 1971)
2. AICTE (1994): Report of the Hosh power committee for mobilization of additional resources for technical education, New Delhi
3. Planning Commission, Govt. of India (2006) XI Plan working group on Higher Education (draft), New Delhi
4. Govt. of India (2007), National Knowledge Commission report of the Nation 2006, New Delhi
5. Chauhan, CPS (1990) Higher Education In India, Ashish Publishing House, New Delhi
6. AIU (1995) Policies of Higher Education, New Delhi
7. Pawar, K. B. (2002) Indian Higher Education. Concept Publishing House, New Delhi
8. Delor et al. (1996) Learning: The treasure within report of UNESCO, Paris

EDU 604

ENVIRONMENTAL EDUCATION

UNIT-1

- Environment and Ecology: Meaning and definition
- Relationship between man and environment
- Impact of population growth on environment

Unit-2

- Meaning and types of environment pollution (air, water, noise, soil)
- Causes of pollution and its effect on living environment

Unit-3

- Environment education : Meaning, aims, needs and scope
- Approaches of environmental education- interdisciplinary model and multidisciplinary model
- Features of curriculum for environmental education

Unit-4

- Need for teachers training in environmental education
- Methods of teaching environmental education, co curricular activities etc.
- Role of universities, media, NGOs in environmental education

Unit-5

- Programmes for environmental protection and improvement
- Environment and laws
- Environmental management

Suggested Readings

- Nanada, V. K. : Environmental Education
 Trivedi, P. R. : Environmental Education
 Gopal, G. V. : Environmental Education in School an overall perspective of NCF
 Sharma, R. A. : Environmental Education
 Srivastava, K. K. : Environmental Education
 Detwlyer, T. R. : Man's Impact on Environment
 Marcus, M. G. : Physical Geography of City
 Gregory, K. T. : Man's and Environment Process
 Furley, P. A. & Newey : Man and Biosphere
 Arvill, R. : Man and Environment crisis and the strategy of choice
 Singh, S. : Environmental Geography
 Calhoun, J. B. : Education and Population

EDU 605
EDUCATIONAL TECHNOLOGY

Unit I- Fundamentals of Educational Technology

- Meaning, Nature and Scope and Theoretical bases of Educational Technology
- The tend and development of ET
- Components of ET – Hardware and Software
- System Approach in ET

Unit II – Learning Technology

- Programmed Learning Material, Principles, Styles of Programming: Linear, Branching and Mathetic, Steps of development of TLM, Mastery learning : Concept and types
- Instructional Materials: Modules, Computer Assisted Instructional Materials

Unit III – Teaching Technology

- Modalities of teaching, Difference between Teaching, Instruction, Conditioning and Training.
- Stages of Teaching: Pre-active, Interactive and Post-active;
- Teaching at different Levels: Memory, Understanding and Reflective.
- Modifications of Teaching Behaviour: Micro teaching, Flander's Interaction Analysis, category system, Simulation and Gaming.
- Nature and characteristics of Models of Teaching
- Modes of Teaching: Lecture, Team Teaching, Seminars, Panel Discussion, Tutorial, Group Discussion, Cooperative Learning

Unit IV – Information and Communication Technology in Education

- Communication Process: Concept of communication, Principles, modes and barriers of communication, verbal and non-verbal communication
- Educational Radio and Educational Television, Interactive Radio and interactive television, types of teleconferencing, e-Pathshala, e-PG Pathshala, MOOC, OER
- Information and communication technology ICT in Education – Concept, uses, interactivity networking – LAN, WAN, WWW, Virtual classrooms
- Multi media approach to instruction – concept, uses, development of multimedia package, criterion of selection of media and technology in multimedia package

Unit – 5 Management of ET and Open and Distance Learning System (ODLS)

- Systems approach : Meaning and scope, open versus closed system, education as open system, systems approach to education, steps in designing a system
- ODLS – Concept, definitions and characteristics, criterion of openness, different stages of distance education, media, materials and ICT in distance education, student support services, evaluation strategies in ODLS

Suggested Readings

- Mukhopadhyay, M. : Educational Technology
Kulkarni, S. S. : Educational Technology
Mohanty, J. : Educational Technology
Sahoo, P. K. : Open Learning System
Sahoo, P. K. : Educational Technology in Distance Education
Sampat, K. et al. : Introduction to Educational Technology
Sharma, M. L. : System Approach – Its application in education
Sharma, R. A. : Educational Technology
VedNayagam, E. G. : Teaching Technology for College Teachers
Joyce, B. and Weil M. : Models of Teaching
Plomp, T. : International Encyclopaedia of Educational Technology
Mahapatra, B. C. : Information Technology and Education

EDU 606

EDUCATIONAL ADMINISTRATION AND MANAGEMENT

Unit-1 Educational Administration and Management :

- Meaning, Nature and Scope
- Function
- Theories
- System Approach

Unit-2 Educational Planning and Finance in Education :

- Meaning, Nature and Need of Educational Planning.

- Approaches to Educational Planning.
- Kinds of Educational Planning- Long Term, Short Term, Institutional, Strategic, Operational
- Educational Finance : Meaning and Nature, Sources of Income, Items of Expenditure, Budgeting

Unit-3 Supervision in Education:

- Meaning and nature of Educational Supervision
- Functions of Educational Supervision
- Planning and organizing supervisory programme
- Implementing supervisory programme: technique of educational supervision

Unit-4 Leadership in Education:

- Meaning and Nature of Educational Leadership
- Leadership Styles.
- Theories of Leadership- Trait, Behaviour, Contingency, Transactional and Transformational.

Unit – 5 Specific Trends in Educational Administration :

- Decision Making : meaning, types and Steps
- Organizational development
- Programme Evaluation and Review Technique (PERT)
- Total quality Management in education: Concept, Nature and Indicators

Suggested Readings

Bhatnagar, R.P. & Vidya Agarwal	: Educational Administration, Supervision, Planning & Finance
Kimbal, Wiles and Lorel	: Supervision for better Schools
Mishra, Atmanand	: Educational Finance
Mohanty, Jagannath	: Educational Administration, Supervision and School Management
Mukhopadhyay, M.	: Total Quality Management in Education
Naik, S.P.	: Planning Education in India
Saxena, S.	: Educational Planning in India.

**EDU 651
PROJECT / DISSERTATION**

**EDU 652
INCLUSIVE EDUCATION**

Unit 1: Introduction to Inclusive Education

- Concept, meaning and importance of Inclusive Education.
- Historical Perspectives on Education of children with diverse Needs.
- Difference - Special Education, Integrated Education, and Inclusive Education.
- Advantages of Inclusive Education for Education for all Children.

Unit 2: Policy and Programmes

- Recommendations of Education Commissions and Committees on restructuring policies and practices to respond to diversity in educational situations (with special reference to recommendation of NPE -1986, POA-1992 and PWD Act (person with disability)1995;
- National curriculum framework 2005,
- National institutes for Rehabilitation and Rehabilitation council of India.
- National and International initiatives for inclusive education

Unit 3: Children with Diverse Needs

- Definition and Characteristics of children with
 - a) Sensory (Hearing, Visual,) and physically challenged.
 - b) Intellectual (gifted with high intellect & talents, and mentally challenged).
- Importance of Early Detection, Functional Assessment for Development of Compensatory Skills.
- Role of Teachers Working in Inclusive Setting and Resource Teacher in Developing and Enriching academic skills for higher learning.

Unit 4: Children with Diverse Needs

- Definition and Characteristics of children with

- a) developmental disabilities (autism, cerebral palsy, learning disabilities)
 - b) social and emotional problems
 - c) scholastic backwardness (underachievement, slow learner)
 - d) children belonging to other marginalized groups
- Importance of Early Detection, Functional Assessment for Development of Compensatory Skills.
 - Role of Teachers Working in Inclusive Setting and Resource Teacher in Developing and Enriching academic skills for higher learning.

Unit 5: Utilization for Resources

- Role of Technology for meeting diverse needs of learners
- Concept and Importance of Human and Material Resources.
- Types of service and approaches, strategies, personnel involved and their specific role and responsibilities.
- Creating Conducive Environment in Inclusive Schools, Material Resources, and Human Resources, Changing the Attitude of the Significant People, Exploring and Utilizing the Services and Resources available in the Community.
- Managerial Skills for Mobilizing appropriate Resources.
- Identifying the required Resources for Children with Various Special Needs.

Suggested Reading-

- Ahuja, A., & Jangira, N.K. (2002). *Effective Teacher Training: Cooperative Learning Based Approach*. New Delhi: National Publishing House.
- Ainscow, M. & Booth, T. (2003). *The Index of Inclusion: Developing Learning and Participation in Schools*. Bristol: Centre for Studies in Inclusive Education.
- Jangira, A. & Mani, M.N.G. (1990). *Integrated Education for Visually Handicapped*. Gurgaon: Academic Press.
- Jha, M. (2002). *Inclusive Education for All: Schools without Walls*. Chennai: Heinemann Educational Publishers.
- Sharma, P.L. (1990). *Teacher Handbook on IED-Helping Children with Special Needs*. New Delhi: NCERT Publications

EDU 653
TEACHER EDUCATION

Unit – 1

- Teacher education as professional education : needs and scope, historical perspective of teacher education
- NCTE : organization and functions
- Recommendations of various commissions and committees on teacher education

Unit – 2

- Pre-service teacher education: needs, objectives and scope
- Vision of teacher education curriculum as envisaged in NCERT and NCTE documents
- Curriculum areas of pre-service teacher education at different levels : elementary, secondary

Unit – 3

- In-service teacher education : concept of andragogy and its principles
- Professional development of teachers
- Agencies of in-service teacher education programmes for teachers of elementary, secondary and higher education
- Induction programme : needs and objectives

Unit – 4

- Transaction of teacher education curriculum : individualised instruction, group instruction, teacher centred and blended approach
- Development of teaching competencies : micro teaching, models of teaching, peer group based learning
- Mentoring school based internship : objectives and approaches

Unit – 5

- Education of teacher educators : pre-service and in-service education of teacher educators
- Role of open and distance learning mode in teacher development
- Research in teacher education and teaching effectiveness: needs and scope

Suggested Reading

- Adaval , S. B. : Quality of Teachers
Adaval, S. B. : An analytical study of teachers education in India
Anderson, L. W. (Ed.) : International Encyclopaedia of Teaching and Teacher Education
Dunhill, L. W. (Ed.) : A Teachers Training Manual
Faure Edgar et. Al. : Learning To Be
Peterron, R. D. : Teacher Education
Joyce, B. & Weil, M. : Models of Teaching
McCarty, Donald, J. : New Perspectives on Teacher Education
Passi , B. K. and Shah, M.M. : Micro-Teaching in Teacher Education
Smith, B. O. : Teacher for the Real World

EDU 654 GUIDANCE AND COUNSELLING

Unit-1

- Guidance and counselling: Concept, Need, Principles, Types: Educational, Personal, Vocational

Unit-2

- Guidance personnel-Role of different persons in the guidance programme, Characteristics of a successful counsellor, Training of counsellor, Duties of counsellor

Unit-3

- Organising guidance services- Organising guidance services at different stages of education, Principles governing organization of services, Kinds of services - appraisal, information, placement, counselling, follow up, evaluation
- Occupational information- Sources, Collection, Evaluation, Dissemination, Utility

Unit-4

- Tools in guidance-Records; kinds and relevance: tools for measuring personality, achievement, interest, aptitude, intelligence, creativity and their relevance, communicating appraisal result.

- Techniques of guidance-directive counselling, non-directive counselling, group counselling, role of interview in counselling.

Unit-5

- Group procedures of guidance
- Problems of guidance movement in India
- Trends in researches in guidance and counselling

Suggested Readings

Bernard, H. W. and Fullmer, W. O.	: Principles of Guidance
Erikson	: The counselling Interview
Gibson, R. L.	: Introduction to Counselling and Guidance
Jones, A. J.	: Principles of Guidance
Miller, C. H.	: Principles of Techniques of Vocational Guidance
Myer, G. E.	: Principles and Practices of the Guidance Programme
Tolbert	: Introduction to Counselling

EDU 655 CURRICULUM STUDIES

Unit – 1

Concept and types of curriculum, Philosophical, Psychological and Sociological basis of curriculum, Development of curriculum – Historical perspective, Principles of curriculum construction, Models of curriculum, Curriculum renewal and its impact on classroom practices, Cross curricular issues.

Unit –2

Role of Regulatory Bodies in curriculum development, Curriculum Evaluation, Different Models of Curriculum Evaluation, Analysis of Curriculum Frame works, Research issues in Curriculum Studies.

Unit - 3

Concept, need and importance of educational measurement and evaluation, Taxonomies of Educational Objectives, Study of Standardized tools of measuring – Intelligence, Personality, Creativity and Interest, NRT and CRT, Standard Scores, Formative and Summative evaluation, Feedback – nature, importance and methods.

Unit - 4

Concept, types and calculation of Reliability, Validity and Norms, Development and standardization of Achievement Test and Attitude Scale,

Unit - 5

Trends in examination and evaluation – CBCS, Self assessment, Peer Assessment and Tutor assessment, Examination - on demand, On – line examination, Scaling and Grading of marks, etc. Assessment of Examination Systems, Research Issues in educational measurement and evaluation.

Suggested Readings:

- Balsara, M. – Principles of Curriculum Construction.
- Biswas, N. B. – Curriculum Studies: A model for SAARC Countries.
- NCERT – National Curriculum Frame Work for School Education.
- UGC – Model Curriculum Frame Work, NCF- 2005.
- NCTE – NCFTE – 2011.
- Ornstein, A. C. – Curriculum: Foundations, Principles and Theories.
- Thorndike, P. & Hagen, E. – Measurement and Evaluation in Psychology and Education.
- Sax, G. – Principles of Educational Measurement and Evaluation.
- Grondlund, N. E. – Measurement and Evaluation Teaching.
- Anastasi, A. – Psychological Testing.
- Cronbach – Essentials of Psychological Testing.
- Srivastav – Reforming Examination.

EDU 631

FIELD WORK & PRACTICAL

- Review of five research papers published in the current issue of any reputed journal of Education
- Construction of Achievement Test and item analysis
- Critical Review of any two video presentation of MOOCs
- Development of Programme Learning Material/Module on any two lessons at school stage

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Professor K.S.Misra

FACULTY OF ARTS
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DFA/144/17
09.10.2017

To
All Heads of the Departments
Faculty of Arts
University of Allahabad

Dear Sir/Madam,

This is to inform you that the Faculty Board of Arts in its meeting dated 03.04.2017 and 18.09.2017 has passed syllabus of the Pre-D.Phil. Course of your subject. The syllabus is being sent to you for further necessary action.

In the Pre-D.Phil. Course, a D.Phil. scholar has to obtain a minimum of 55% of marks or its equivalent grade in the UGC 7-point scale in the course work in order to be eligible to continue in the programme and submit the thesis. This is in accordance with para 7.8 of the UGC (Minimum Standards and Procedure for Award of M.Phil./Ph.D. Degrees) Regulations, 2016 notified on 05.05.2016. Please bring this fact to the notice of students of Pre-D.Phil. Course.

The end semester examination for each paper (course code) shall be of three hours duration.

Thanking you.

Yours sincerely

(K.S.Misra)

Encl. As Above.

Copy to SVC for kind information to Hon'ble Vice-Chancellor.

(K.S.Misra)

Department of Education

The Programme shall comprise the following modules:

1. **EDU 801: Research Methodology in Education – 4 credit**
2. **EDU 802: Data Analysis in Educational Research and Computer Application – 4 credit**
3. **EDU 851-855 : Thrust Area of Research In Education – 4 credit**

The scholar shall be required to opt for the course in one of the specific areas related to his research

- EDU 851- Philosophy of Education
- EDU 852- Sociology of Education
- EDU 853- Psychological Foundations of Education
- EDU 854- Educational Administration and Management
- EDU 855- Educational Technology and Open and Distance Learning

1. EDU 801 Research Methodology in Education (04 credits-100 marks)

Unit I – Social sciences theories and methods of Inquiry, Positivist, Interpretive and Mixed Paradigms, Scope of Educational Research and Review of Literature.

Unit II – Identification of problem, hypothesis, Research Ethics and preparation of research proposal, population, sample and tools of data collection.

Unit III – Research Design adopted in Descriptive Research, Experimental Research and Ex-Post Facto Studies, Historical Research and Philosophical Research

Unit IV – Use of computer in educational research

Evaluation:

Computer Application: MM 20

Assignment/Group Discussion/Seminar Presentation: MM 20

End-semester exam: 60 marks

2. EDU-802: Data Analysis in Educational Research (04 credits)

Unit I- Quantitative Data Analysis techniques. Statistical Analysis: Classification, Tabulation, Diagrammatical and Graphical Presentation; Measures of Central Tendency and Dispersion, Measures of Correlation (Including Partial, Multiple Correlation and Regression Equation).

Unit II- Use of Non-Parametric and Parametric Techniques of Data analysis. Narrative and Biographical Approach, Systematic Approach, Coding and Content analysis, Discourses: Conversations, Narratives and Autobiographies, Visual Media, Grounded Theory, Triangulation of Data.

Unit III- Qualitative data analysis techniques. Narrative and Biographical Approach, Systematic Approach, Coding and Content analysis, Discourses: Conversations, Narratives and Autobiographies, Visual Media, Grounded Theory, Triangulation of Data.

Unit IV- Skills in Data Analysis by using Computer

Graphical presentations, Data entry through MS Excel and Data Analysis through SPSS, Computer Assisted Qualitative Data Analysis (CAQDAS)

Evaluation

Practical: Data analysis using computer: MM 20

Theory: Assignment/Group Discussion/Seminar Presentation: MM 20

End Semester: 60 marks

EDU 851: Philosophy of Education

Unit I – Meaning and nature of philosophy, different branches of philosophy- metaphysics, epistemology, axiology and logic, meaning, nature and scope of philosophy of education as a discipline

Unit II – methods of philosophical inquiry

Unit III – latest research trends in the philosophy of education

Unit IV – Review of published research in the area

Course EDU 852 : Sociology of Education

Unit I – Need of sociological perspective in education, methods of study in sociology of education, education as a process in social system with reference to economy, polity, community, religion

Unit II - Education of socially and economically disadvantaged section of society with special reference to SC, ST, women and rural population

Unit III - Social change, modernization and social stratification

Unit IV - Review of published research in the area

Evaluation

1. Review of published Research In the Field: MM 20

2. Assignment/Group Discussion/Seminar Presentation: MM 20

End Semester: 60 marks

Course EDU 853: Psychological Foundations of Education

Unit I - Taxonomies of Educational Objectives, Learning theories - Field theories, factors influencing learning, transfer of learning, motivation: determinants, constructivism, personality: recent theories

Unit II - Cognitive development, moral development

Unit III - Social-emotional competence, stress and coping strategies, creativity

Unit IV - Review of published research in the area

Evaluation

1. Review of published Research In the Field: MM 20

2. Assignment/Group Discussion/Seminar Presentation: MM 20

End Semester: 60 marks

Course EDU 854 : Educational Administration and Management

Unit I - Total Quality Management in Education, organizational behavior, organizational effectiveness, organizational climate, organizational conflict

Unit II - Leadership effectiveness, Leadership styles, communication, decision making, human resource management in education

Unit III - Supervision and financing in education

Unit IV - Review of published research in the area

Evaluation

1. Review of published Research in the Field: MM 20

2. Assignment/Group Discussion/Seminar Presentation: MM 20

End Semester: 60 marks

Course EDU 855: Educational Technology and Open and Distance Learning System

Unit I - Materials, methods, models and techniques in self-learning, teacher controlled learning and group learning (learner based) situations, educational technology perspectives: Media and technology in teaching learning with special reference to mass media and communication

Unit II - ICT in Education: Development and validation of Instructional packages, evaluation system, research, teacher preparation, management of teaching learning system, networking and collaboration in traditional and open distance learning institutions

Unit III - Teacher effectiveness and teacher behaviour, open and distance learning - components, management, evaluation and strategies

Unit IV - Review of published research in the area

Evaluation

1. Review of published Research in the Field: MM 20

2. Assignment/Group Discussion/Seminar Presentation: MM 20

End Semester: 60 marks



UNIVERSITY OF ALLAHABAD
CMP College, Prayagraj
(A Constituent College of University of Allahabad)



DEPARTMENT OF EDUCATION

Organizing

A SPECIAL LECTURE

On

"Motivation and Its Method of Fostering"

Date: 23rd February 2021

Time: 3:00 PM at **Google Meet**



Resource Person

Dr. Budh Singh

(Assistant Professor, Dr. Hari Singh Gour University, Sagar, Madhya Pradesh)



Patron

Dr. Brijesh Kumar

(Principal, CMP College)



Convenor

Dr. Sangeeta

(Department of Education)



Organizer

Dr. Dilip Kumar Singh

(Department of Education)

About the Special Lecture

The lecture will be held on 23rd February 2021 through online mode under the auspices Department of Education, CMP College (A Constituent College of University of Allahabad), Prayagraj, Uttar Pradesh. Since Educational Psychology and Research Methodology are the structural background of all the subjects and plays vital role in all disciplines. The lecture is intended to make the participants familiar with motivation and its method of fostering. Expert from the Dr. Hari Singh Gour University is likely to deliberate on the concerned topic "Motivation and Its Method of Fostering". The Research Scholars of Ph.D. (Education) and Post Graduate (M.A. - Education) students are expected to benefit from this special lecture.

Target Group: Ph.D. Research Scholars and Post Graduate Students

Advisory Committee: Dr. Neeta Sinha & Dr. Abha Singh, Department of Education, CMP College, Prayagraj

Organizing Team: Dr. Priya Soni Khare, Dr. Ajay Prakash Tiwari, Mrs. Sharmila Srivastava, Dr. Budhi Sagar Gupta, Dr. Jitendra Kumar and Dr. Dilip Kumar Singh



UNIVERSITY OF ALLAHABAD
CMP College, Prayagraj
(A Constituent College of University of Allahabad)



DEPARTMENT OF EDUCATION

Organizing

A SPECIAL LECTURE

On

"Intelligence and Its Measurement"

Date: 25th February 2021

Time: 3:00 PM at **Google Meet**



Resource Person

Dr. Abhishek Kumar Prajapati

(Assistant Professor, Dr. Hari Singh Gour University, Sagar, Madhya Pradesh)



Patron

Dr. Brijesh Kumar

(Principal, CMP College)



Convenor

Dr. Sangeeta

(Department of Education)



Organizer

Dr. Dilip Kumar Singh

(Department of Education)

About the Special Lecture

The lecture will be held on 25th February 2021 through online mode under the auspices Department of Education, CMP College (A Constituent College of University of Allahabad), Prayagraj, Uttar Pradesh. Since Educational Psychology and Research Methodology are the structural background of all the subjects and plays vital role in all disciplines. The lecture is intended to make the participants familiar with Intelligence and its Measurement. Expert from the Dr. Hari Singh Gour University is likely to deliberate on the concerned topic "Intelligence and Its Measurement". The Research Scholars of Ph.D. (Education) and Post Graduate (M.A. - Education) students are expected to benefit from this special lecture.

Target Group: Ph.D. Research Scholars and Post Graduate Students

Advisory Committee: Dr. Neeta Sinha & Dr. Abha Singh, Department of Education, CMP College, Prayagraj

Organizing Team: Dr. Priya Soni Khare, Dr. Ajay Prakash Tiwari, Mrs. Sharmila Srivastava, Dr. Budhi Sagar Gupta, Dr. Jitendra Kumar and Dr. Dilip Kumar Singh



UNIVERSITY OF ALLAHABAD
CMP College, Prayagraj
(A Constituent College of University of Allahabad)



DEPARTMENT OF EDUCATION

Organizing

A SPECIAL LECTURE

On

"METAPHYSICS OF EDUCATIONAL PHILOSOPHY"

Date: 12th April 2021

Time: 3:00 PM at **Google Meet**



Resource Person

Dr. Minakshi Biswal

(Associate Professor, Department of Education, Vasanta College, Rajghat, Varanasi, UP)



Patron

Dr. Brijesh Kumar

(Principal, CMP College)



Convenor

Dr. Sangeeta

(Department of Education)



Organizer

Dr. Priya Soni Khare

(Department of Education)

About the Special Lecture

The lecture will be held on 12th April 2021 through online mode under the auspices Department of Education, CMP College (A Constituent College of University of Allahabad), Prayagraj, Uttar Pradesh. Since Educational Philosophy is structural background of all the subjects and plays vital role in all disciplines. The lecture is intended to make the participants familiar with above mentioned topic. Expert from the Vasanta College, Rajghat, Varanasi is likely to deliberate on the concerned topic "Metaphysics of Educational Philosophy". The Research Scholars of Ph.D. (Education) and Post Graduate (M.A. - Education) students are expected to benefit from this special lecture.

Target Group: Ph.D. Research Scholars and Post Graduate Students

Advisory Committee: Dr. Neeta Sinha & Dr. Abha Singh, Department of Education, CMP College, Prayagraj

Organizing Team: Dr. Priya Soni Khare, Dr. Ajay Prakash Tiwari, Mrs. Sharmila Srivastava, Dr. Jitendra Kumar and Dr. Dilip Kumar Singh



UNIVERSITY OF ALLAHABAD
CMP College, Prayagraj
(A Constituent College of University of Allahabad)



DEPARTMENT OF EDUCATION

Organizing

A SPECIAL LECTURE

On

"EPISTEMOLOGY OF EDUCATIONAL PHILOSOPHY"

Date: 13th April 2021

Time: 3:00 PM at **Google Meet**



Resource Person

Dr. Minakshi Biswal

(Associate Professor, Department of Education, Vasanta College, Rajghat, Varanasi, UP)



Patron

Dr. Brijesh Kumar

(Principal, CMP College)



Convenor

Dr. Sangeeta

(Department of Education)



Organizer

Dr. Jitendra Kumar

(Department of Education)

About the Special Lecture

The lecture will be held on 13th April 2021 through online mode under the auspices Department of Education, CMP College (A Constituent College of University of Allahabad), Prayagraj, Uttar Pradesh. Since Educational Philosophy is structural background of all the subjects and plays vital role in all disciplines. The lecture is intended to make the participants familiar with above mentioned topic. Expert from the Vasanta College, Rajghat, Varanasi is likely to deliberate on the concerned topic "Epistemology of Educational Philosophy". The Research Scholars of Ph.D. (Education) and Post Graduate (M.A. - Education) students are expected to benefit from this special lecture.

Target Group: Ph.D. Research Scholars and Post Graduate Students

Advisory Committee: Dr. Neeta Sinha & Dr. Abha Singh, Department of Education, CMP College, Prayagraj

Organizing Team: Dr. Priya Soni Khare, Dr. Ajay Prakash Tiwari, Mrs. Sharmila Srivastava, Dr. Jitendra Kumar and Dr. Dilip Kumar Singh



UNIVERSITY OF ALLAHABAD
CMP College, Prayagraj
(A Constituent College of University of Allahabad)



DEPARTMENT OF EDUCATION

Organizing

A SPECIAL LECTURE

On

"TEACHING OF BHAGAVAT GEETA"

Date: 14th April 2021

Time: 3:00 PM at **Google Meet**



Resource Person

Dr. Minakshi Biswal

(Associate Professor, Department of Education, Vasanta College, Rajghat, Varanasi, UP)



Patron

Dr. Brijesh Kumar

(Principal, CMP College)



Convenor

Dr. Sangeeta

(Department of Education)



Organizer

Mrs. Sharmila Srivastava

(Department of Education)

About the Special Lecture

The lecture will be held on 14th April 2021 through online mode under the auspices Department of Education, CMP College (A Constituent College of University of Allahabad), Prayagraj, Uttar Pradesh. Since Educational Philosophy is structural background of all the subjects and plays vital role in all disciplines. The lecture is intended to make the participants familiar with above mentioned topic. Expert from the Vasanta College, Rajghat, Varanasi is likely to deliberate on the concerned topic "Teaching of Bhagavat Geeta". The Research Scholars of Ph.D. (Education) and Post Graduate (M.A. - Education) students are expected to benefit from this special lecture.

Target Group: Ph.D. Research Scholars and Post Graduate Students

Advisory Committee: Dr. Neeta Sinha & Dr. Abha Singh, Department of Education, CMP College, Prayagraj

Organizing Team: Dr. Priya Soni Khare, Dr. Ajay Prakash Tiwari, Mrs. Sharmila Srivastava, Dr. Jitendra Kumar and Dr. Dilip Kumar Singh



UNIVERSITY OF ALLAHABAD
CMP College, Prayagraj
(A Constituent College of University of Allahabad)



DEPARTMENT OF EDUCATION

Organizing

A SPECIAL LECTURE

On

"STRESS MANAGEMENT TIPS DURING COVID-19 PANDEMIC"

Date: 15th June 2021

Time: 4:00 PM at **Google Meet**



Resource Person

Dr. Ishanya Raj

(Clinical Psychologist, District Hospital, Prayagraj, Uttar Pradesh)



Patron

Dr. Brijesh Kumar

(Principal, CMP College)



Convenor

Dr. Sangeeta

(Department of Education)



Organizer

Dr. Abha Singh

(Department of Education)

About the Special Lecture

The lecture will be held on 15th June 2021 through online mode under the auspices Department of Education, CMP College (A Constituent College of University of Allahabad), Prayagraj, Uttar Pradesh. Since Educational Psychology is structural background of all the subjects and plays vital role in all disciplines. The lecture is intended to make the participants familiar with stress management. Expert from the District Hospital, Prayagraj, is likely to deliberate on the concerned topic "Stress Management Tips during COVID-19 Pandemic". The Research Scholars of Ph.D. (Education) and Post Graduate (M.A. - Education) students are expected to benefit from this special lecture.

Target Group: Ph.D. Research Scholars and Post Graduate Students

Advisory Committee: Dr. Neeta Sinha & Dr. Abha Singh, Department of Education, CMP College, Prayagraj

Organizing Team: Dr. Priya Soni Khare, Mrs. Sharmila Srivastava, Dr. Jitendra Kumar and Dr. Dilip Kumar Singh



UNIVERSITY OF ALLAHABAD
CMP College, Prayagraj
(A Constituent College of University of Allahabad)



DEPARTMENT OF EDUCATION

Organizing
A SPECIAL LECTURE
On
"RESEARCH ETHICS"

Date: 17th June 2021

Time: 4:00 PM at **Google Meet**



Resource Person

Dr. Shailendra Verma

(Head, Department of Education, Mahatma Gandhi Kashi Vidyapeeth, Varanasi, Uttar Pradesh)



Patron

Dr. Brijesh Kumar

(Principal, CMP College)



Convenor

Dr. Sangeeta

(Department of Education)



Organizer

Dr. Dilip Kumar Singh

(Department of Education)

About the Special Lecture

The lecture will be held on 17th June 2021 through online mode under the auspices Department of Education, CMP College (A Constituent College of University of Allahabad), Prayagraj, Uttar Pradesh. Since Research Methodology is structural background of all the subjects and plays vital role in all disciplines. The lecture is intended to make the participants familiar with research ethics. Expert from the Mahatma Gandhi Kashi Vidyapeeth, Varanasi is likely to deliberate on the concerned topic "Research Ethics". The Research Scholars of Ph.D. (Education) and Post Graduate (M.A. - Education) students are expected to benefit from this special lecture.

Target Group: Ph.D. Research Scholars and Post Graduate Students

Advisory Committee: Dr. Neeta Sinha & Dr. Abha Singh, Department of Education, CMP College, Prayagraj

Organizing Team: Dr. Priya Soni Khare, Mrs. Sharmila Srivastava, Dr. Jitendra Kumar and Dr. Dilip Kumar Singh



Ref. No. _____

Date: 17/08/2022

शिक्षाशास्त्र विभाग

सूचना

विभागीय गतिविधियाँ आयोजन समिति के सभी सदस्यों को सूचित किया जाता है कि दिनांक 22/08/2022 को समय पूर्वाह्न 11:00 बजे शिक्षाशास्त्र विभाग में एक सभा का आयोजन किया जाना सुनिश्चित हुआ है, जिसमें मीटिंग का एजेंडा विभाग में गतिविधियों का आयोजन करने से सम्बंधित योजना निर्माण करना होगा।

अतः सभी समिति सदस्य समय पर उपस्थित होने का कष्ट करें।

Ran
(डॉ प्रिया सोनी खरे)
संयोजक

विभागीय गतिविधियाँ आयोजन समिति

विभागीय गतिविधियाँ आयोजन समिति सदस्यों के हस्ताक्षर:

Coordinator
Departmental Activities Committee
Department of Education
CMP College, Allahabad

1. डॉ जितेन्द्र कुमार (सह-समन्वयक, विभागीय गतिविधियाँ आयोजन समिति)
2. डॉ शर्मिला श्रीवास्तव (सदस्य) *Sharma*
3. डॉ दिलीप कुमार सिंह (सदस्य) *Dilip*
4. श्री अमित शर्मा (छात्र प्रतिनिधि, विभागीय गतिविधियाँ आयोजन समिति) *Amit Sharma*
5. श्री कृष्ण कान्त पटेल (छात्र प्रतिनिधि, विभागीय गतिविधियाँ आयोजन समिति) *Krishna Kant Patel*
6. सुश्री साक्षी (छात्रा प्रतिनिधि, विभागीय गतिविधियाँ आयोजन समिति) *Sakshi*
7. सुश्री हिमानी (छात्रा प्रतिनिधि, विभागीय गतिविधियाँ आयोजन समिति) *Himani*

Ran
(डॉ प्रिया सोनी खरे)
संयोजक

विभागीय गतिविधियाँ आयोजन समिति

Coordinator
Departmental Activities Committee
Department of Education
CMP College, Allahabad

प्रतिलिपि: समन्वयक, शिक्षाशास्त्र विभाग, सी.एम.पी. कॉलेज, प्रयागराज, उत्तर प्रदेश का प्रेषित।




Ref. No. _____

Date: 22/08/2022

शिक्षाशास्त्र विभाग कार्यवृत्त



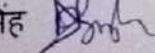
आज दिनांक 22/08/2022 को समय पूर्वाह्न 11:00 बजे शिक्षाशास्त्र विभागीय सदस्यों की एक सभा शिक्षाशास्त्र विभाग कार्यालय में आयोजित हुई, जिसमें सभा की अध्यक्षता शिक्षाशास्त्र विभाग की समन्वयक डॉ नीता सिन्हा द्वारा की गई। सभा में समिति के सभी सदस्य उपस्थित थे एवम् विभिन्न बिंदुओं पर विस्तृत चर्चा हुयी और निम्न निर्णय लिये गये :-

1. विभाग में निबंध प्रतियोगिता एवं पोस्टर/ स्लोगन प्रतियोगिता का आयोजन किया जाये।
2. जिसमें निबंध प्रतियोगिता का विषय "राष्ट्रीय शिक्षा नीति-2020: समय की मांग" होगा।
3. निबंध प्रतियोगिता का आयोजन 05/09/2022 को शिक्षाशास्त्र विभाग में होगा।
4. जिसमें पोस्टर/ स्लोगन प्रतियोगिता की THEME "शिक्षा और पर्यावरण" होगा।
5. पोस्टर/ स्लोगन प्रतियोगिता का आयोजन भी 05/09/2022 को शिक्षाशास्त्र विभाग में किया जाना सुनिश्चित हुआ।
6. सम्बंधित विषय पर निबंध की शब्द सीमा 1000 होगी एवं आयोजन का समय 12:00 बजे निर्धारित किया गया
7. निबंध प्रतियोगिता के संयोजक डॉ जितेंद्र कुमार एवं डॉ प्रिया सोनी खरे होंगे।
8. पोस्टर/ स्लोगन प्रतियोगिता के संयोजक डॉ दिलीप कुमार एवं सिंह डॉ शर्मिला श्रीवास्तव रहेंगे।
6. विभागीय गतिविधियाँ आयोजन समिति में छात्र प्रतिनिधि हेतु श्री अमित शर्मा, एवम् श्री कृष्ण कान्त पटेल (छात्र प्रतिनिधि), सुश्री साक्षी एवम् सुश्री हिमानी (छात्रा प्रतिनिधि) गतिविधियों के आयोजन में सहयोग करेंगे।


(डॉ प्रिया सोनी खरे)

संयोजक
Departmental Academic Committee
शिक्षाशास्त्र विभाग
Department of Education
CMP College, Allahabad

समिति सदस्यों के हस्ताक्षर:

1. श्रीमती शर्मिला श्रीवास्तव 
2. डॉ जितेंद्र कुमार 
3. डॉ दिलीप कुमार सिंह 

प्रतिलिपि: समन्वयक, शिक्षाशास्त्र विभाग, सी.एम.पी. कॉलेज, प्रयागराज, उत्तर प्रदेश को प्रेषित।



Ref. No. _____

Date: 05/09/2022

शिक्षाशास्त्र विभाग


प्रेस विज्ञप्ति

सी०एम०पी० महाविद्यालय के प्राचार्य, प्रोफेसर अजय प्रकाश खरे के सभी विभागों को विभिन्न शैक्षणिक एवं गैर शैक्षणिक गतिविधियों को आयोजित करने के क्रम में शिक्षाशास्त्र विभाग द्वारा शिक्षक दिवस के अवसर पर दिनांक 05/09/2022 को निबंध प्रतियोगिता विषय- "राष्ट्रीय शिक्षा नीति-2020: समय की मांग" एवं पोस्टर/स्लोगन प्रतियोगिता विषय- "शिक्षा और पर्यावरण" का आयोजन किया गया। जिसमें अनेक छात्र/ छात्राओं ने प्रतिभाग किया। "निबंध प्रतियोगिता" के संयोजक डॉ प्रिया सोनी खरे एवं डॉ जितेंद्र कुमार रहे जबकि पोस्टर/स्लोगन प्रतियोगिता के संयोजक श्रीमती शर्मिला श्रीवास्तव एवं डॉ दिलीप कुमार सिंह रहे। निर्णायक मंडल में राजनीति विज्ञान के सहायक प्रोफेसर डॉ अरुण कुमार वर्मा एवं डॉ नीरज कुमार सिंह, सहायक प्रोफेसर, मध्यकालीन इतिहास विभाग रहे।

इस अवसर पर शिक्षाशास्त्र की समन्वयक डॉ नीता सिन्हा ने सभी उपस्थित सदस्यों का स्वागत किया और कहा कि इस प्रकार की प्रतियोगिताएं विद्यार्थियों में रचनात्मकता उत्पन्न करती हैं जो उनके सर्वांगीण विकास में सहायक होती हैं। विभाग की एसोसिएट प्रोफेसर डॉ आभा सिंह ने कहा कि इस प्रकार के कार्यक्रम महाविद्यालय समय-समय पर आयोजित करता रहता है जो छात्रों में ऊर्जा का संचार करते हैं। विभाग की एसोसिएट प्रोफेसर डॉ संगीता ने कहा कि शैक्षणिक गतिविधियों के अतिरिक्त इस प्रकार की पाठ्य सहगामी क्रियाएं निश्चित रूप से छात्रों को नवीन एवं रचनात्मक कार्य करने हेतु प्रेरित करती हैं। "निबंध प्रतियोगिता" के समन्वयक डॉ प्रिया सोनी खरे ने बताया कि प्रतियोगिता में विभिन्न छात्र/ छात्राओं ने हिस्सा लिया और अपने-अपने विचारों को निबंध के माध्यम से अभिव्यक्त किया एवं डॉ जितेंद्र कुमार ने कहा इस निबंध प्रतियोगिता द्वारा छात्र राष्ट्रीय शिक्षा नीति - 2020 के बारे में जागरूक हुए और उन्होंने नीति की वर्तमान समय में मांग को परिलक्षित किया।

पोस्टर/स्लोगन प्रतियोगिता के समन्वयक श्रीमती शर्मिला श्रीवास्तव ने बताया कि अनेक छात्रों के पोस्टर एवं स्लोगन प्राप्त हुए जिनमें उन्होंने पर्यावरण की महत्ता को दर्शाया एवं डॉ दिलीप कुमार सिंह ने कहा कि विद्यार्थियों का प्रतियोगिताओं में बढ़-चढ़कर हिस्सा लेना महत्ता को प्रदर्शित करता है।

डॉ जितेंद्र कुमार ने बताया कि दोनों प्रतियोगिताओं में निबंध प्रतियोगिता के अंतर्गत प्रथम स्थान जान्हवी सिंह, द्वितीय स्थान कृष्णकांत पटेल एवं तृतीय स्थान ओम नारायण ने प्राप्त किया इसी प्रकार स्लोगन/पोस्टर प्रतियोगिता में प्रथम स्थान सुमित सोनकर, द्वितीय स्थान रितु शर्मा एवं तृतीय स्थान विपिन यादव ने प्राप्त किया। इन विजेताओं को दिनांक 14/09/2022 को प्रमाण-पत्र प्रदान किए जाएंगे। कार्यक्रम के अंत में निर्णायक मंडल एवं उपस्थित सभी सदस्यों का धन्यवाद ज्ञापन डॉ जितेंद्र कुमार द्वारा किया गया।


(डॉ प्रिया सोनी खरे)



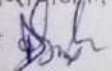
संयोजक

विभागीय गतिविधियाँ आयोजन समिति

Coordinator

Departmental Activities Committee
Department of Education
CMP College, Allahabad

समिति सदस्यों के हस्ताक्षर:

1. श्रीमती शर्मिला श्रीवास्तव 
2. डॉ जितेंद्र कुमार (सह-संयोजक, विभागीय गतिविधियाँ आयोजन समिति) 
3. डॉ दिलीप कुमार सिंह 


डॉ नीता सिन्हा
समन्वयक
शिक्षाशास्त्र विभाग




UNIVERSITY OF ALLAHABAD
CMP COLLEGE, PRAYAGRAJ



M.G. Marg, George Town (Allahabad), Prayagraj- 211002, Uttar Pradesh

DEPARTMENT OF EDUCATION

Date: 10/06/2021

To,

Dr. Ishanya Raj
Clinical Psychologist
District Hospital
Prayagraj, Uttar Pradesh

Subject: Invitation as a Resource Person for a Special Lecture for Ph.D. and Post Graduate Students.

Dear Sir/ Madam,

It is an immense pleasure that Department of Education, CMP College, University of Allahabad, Prayagraj is organizing a special lecture for Ph.D. and Post Graduate Students on dated **15th and 19th June 2021**. The basic purposes of the program are to bring the awareness about psychological principles and theories in learners.

As you are one of the known resource person on the topic, your deliberation and participation will surely benefit the students and participants.

I request you to accept the invitation, and I am looking forward to welcoming you in this program.

For further details you may also contact **Dr. Jitendra Kumar**, Associate/Assistant Professor, Department of Education, CMP College, University of Allahabad, Prayagraj. (Mobile No. **+91-9760049102** & E-mail: **jiten.wisdom@gmail.com**).

Thanks with warm regards

Yours Sincerely

(Dr. Sangeeta)

Convenor

Department of Education
CMP College, University of Allahabad
Prayagraj, Uttar Pradesh



UNIVERSITY OF ALLAHABAD
CMP COLLEGE, PRAYAGRAJ



M.G. Marg, George Town (Allahabad), Prayagraj- 211002, Uttar Pradesh

DEPARTMENT OF EDUCATION

Date: 10/06/2021

To,

Dr. Minakshi Biswal
Associate Professor
Department of Education
Basanta College, Rajghat
Varanasi, Uttar Pradesh

Subject: Invitation as a Resource Person for a Special Lecture for Ph.D. and Post Graduate Students.

Dear Sir/ Madam,

It is an immense pleasure that Department of Education, CMP College, University of Allahabad, Prayagraj is organizing a special lecture for Ph.D. and Post Graduate Students on dated **16th June 2021**. The basic purpose of the program is to bring the awareness related to research ontology and epistemology and its inculcation in teaching-learning process also.

As you are one of the known resource person on the topic, your deliberation and participation will surely benefit the students and participants.

I request you to accept the invitation, and I am looking forward to welcoming you in this program.

For further details you may also contact **Dr. Jitendra Kumar**, Associate/Assistant Professor, Department of Education, CMP College, University of Allahabad, Prayagraj. (Mobile No. **+91-9760049102** & E-mail: **jiten.wisdom@gmail.com**)

Thanks with warm regards

Yours Sincerely

(Dr. Sangeeta)

Convenor

Department of Education
CMP College, University of Allahabad
Prayagraj, Uttar Pradesh



UNIVERSITY OF ALLAHABAD
CMP COLLEGE, PRAYAGRAJ



M.G. Marg, George Town (Allahabad), Prayagraj- 211002, Uttar Pradesh

DEPARTMENT OF EDUCATION

Date: 10/06/2021

To,

Dr. Shailendra Verma
Head
Department of Education
Mahatma Gandhi Kashi Vidyapeeth
Varanasi, Uttar Pradesh

Subject: Invitation as a Resource Person for a Special Lecture for Ph.D. and Post Graduate Students.

Dear Sir/ Madam,

It is an immense pleasure that Department of Education, CMP College, University of Allahabad, Prayagraj is organizing a special lecture for Ph.D. and Post Graduate Students on dated **17th June 2021**. The basic purposes of the program are to inculcate the research ethics and research procedure in the students.

As you are one of the known resource person on the topic, your deliberation and participation will surely benefit the students and participants.

I request you to accept the invitation, and I am looking forward to welcoming you in this program.

For further details you may also contact **Dr. Dilip Kumar Singh**, Associate/Assistant Professor, Department of Education, CMP College, University of Allahabad, Prayagraj. (Mobile No. **8840605736** & E-mail: **dilip82au@gmail.com**).

Thanks with warm regards

Yours Sincerely

(Dr. Sangeeta)

Convenor

Department of Education
CMP College, University of Allahabad
Prayagraj, Uttar Pradesh



UNIVERSITY OF ALLAHABAD
CMP COLLEGE, PRAYAGRAJ



M.G. Marg, George Town (Allahabad), Prayagraj- 211002, Uttar Pradesh

DEPARTMENT OF EDUCATION

Date: 10/06/2021

To,

Dr. Malti
Associate Professor
Department of Education
Allahabad Degree College
Prayagraj, Uttar Pradesh

Subject: Invitation as a Resource Person for a Special Lecture for Ph.D. and Post Graduate Students.

Dear Sir/ Madam,

It is an immense pleasure that Department of Education, CMP College, University of Allahabad, Prayagraj is organizing a special lecture for Ph.D. and Post Graduate Students on dated **14th and 18th June 2021**. The basic purposes of the program are to clear the concept of qualitative research design.

As you are one of the known resource person on the topic, your deliberation and participation will surely benefit the students and participants.

I request you to accept the invitation, and I am looking forward to welcoming you in this program.

For further details you may also contact **Dr. Jitendra Kumar**, Associate/Assistant Professor, Department of Education, CMP College, University of Allahabad, Prayagraj. (Mobile No. +91- **9760049102** & E-mail: **jiten.wisdom@gmail.com**).

Thanks with warm regards

Yours Sincerely

(Dr. Sangeeta)

Convenor

Department of Education
CMP College, University of Allahabad
Prayagraj, Uttar Pradesh

Department of English and M. E. L.

University of Allahabad

B A – Part 1

ENGLISH LITERATURE COVID-19 SYLLABUS

Session 2020-2021

Paper I

Poetry

Max. Marks: 50

Duration: 2 hours

1. When in Disgrace (sonnet) – William Shakespeare
2. Canonization – John Donne
3. Paradise Lost, Book 1, Lines 1 to 16 – John Milton
4. Essay on Man, Lines 1 to 18 – Alexander Pope
5. Tintern Abbey – William Wordsworth
6. Ode to a Nightingale – John Keats
7. The Flute Player of Brindaban – Sarojini Naidu
8. Background, Casually – Nissim Ezekiel
9. Geetanjali (poem no. 11) – Rabindranath Tagore

Question Paper Pattern:

Section A: Three (out of six) long answers. (300 words each)

(3*12=36 Marks)

Section B: Two (out of four) short answers. (80 words each)

(2*7= 50 Marks)

Paper II

Drama

Max. Marks: 50

Duration: 2 hours

Arms and the Man – George Bernard Shaw

Question Paper Pattern:

B Sharma

12 FEB - 21

Department of English,
Modern European Language
University of Allahabad
Allahabad, 221005

Section A: Three (out of six) long answers. (300 words each)

(3*12=36 Marks)

Section B: Two (out of four) short answers. (80 words each)

(2*7= 14 Marks)

Paper III

Prose

Max. Marks: 50

Duration: 2 hours

1. *Tight Corners* – E V Lucas
2. *In Defence of Ignorance* – A G Gardiner
3. *Student* – Robert Lynd
4. *On the Pleasure of No Longer Being Young* – G K Chesterton
5. *On Doing Nothing* – J B Priestly
6. *12 Million Black Voices* – Richard Right

Novel Prescribed for non- detailed study:

Animal Farm – George Orwell

Question Paper Pattern:

Section A: Three (out of five) answers to be written from essays. (300 words each)

(3*12= 36 Marks)

Section B: Two (out of three) answers to be written from *Animal Farm*. (80 words each)

(2*7= 14 Marks)

B. Shama

12-2-21

HEAD

Department of English,
Modern European Language,
University of Allahabad
Allahabad-201002

Department of English and M. E. L.
University of Allahabad

B A – Part II
ENGLISH LITERATURE COVID-19 SYLLABUS
Session 2020-2021

Paper I
Poetry

Max. Marks: 50

Duration: 2 hours

1. Break, Break, Break – Tennyson
2. My Last Duchess – Robert Browning
3. The Dover Beach – Matthew Arnold
4. Darkling Thrush – Thomas Hardy
5. A Prayer for My Daughter – W B Yeats
6. The Love Song of J Alfred Prufrock – T S Eliot
7. The Ghaghra In Spate – K N Daruwalla

Question Paper Pattern:

Section A: Three (out of six) long answers. (300 words each)

(3*12=36 Marks)

Section B: Two (out of four) short answers. (80 words each)

(2*7= 50 Marks)

Paper II
Drama

Max. Marks: 50

Duration: 2 hours

Macbeth – William Shakespeare

Question Paper Pattern:

Section A: Three (out of six) long answers. (300 words each)

(3*12=36 Marks)

Section B: Two (out of four) short answers. (80 words each)

(2*7= 50 Marks)

B. Sharma

12-2-21

HEAD

Department of English
Modern European Language
University of Allahabad
Allahabad, U.P.

Paper III
Prose

Max. Marks: 50

Duration: 2 hours

1. Of Studies – Francis Bacon
2. The Book of Proverbs
3. Mr Will Wimble – Joseph Addison
4. The Spectator Club- Richard Steele
5. Beau Tibbs – Oliver Goldsmith
6. Letter to Chesterfield – Samuel Johnson
7. Dream Children: A Reverie – Charles Lamb
8. The Fly – Katherine Mansfield

Novel for non-detailed study:

The Guide – R K Narayan

Question paper Pattern:

Section A: Three (out of five) answers to be written from essays. (300 words each)
(3*12= 36 Marks)

Section B: Two (out of three) answers to be written from *The Guide*. (80 words each)
(2*7= 14 Marks)

B. Sharma

12-2-21

HEAD

Department of English,
Modern European Language,
University of Allahabad
Allahabad-201002

Department of English and M. E. L.
University of Allahabad

B A – Part III
ENGLISH LITERATURE COVID-19 SYLLABUS
Session 2020-2021

Paper I

Poetry

Max. Marks: 75

Duration: 2 hours

1. Wole Soyinka (Nigerian): 'Dragonfly at My Window Pane'
2. Amiri Baraka (African-American): 'Wise I'
3. Judith Wright (Australian): 'Bora Ring'
4. Agha Shahid Ali (India): 'Postcard from Kashmir A Lost Memory of Delhi'
5. A.K. Ramanujan (India): 'Love Poem for a Wife I'
6. Arun Kolatkar (India): 'The Priest's Son' and 'The Butterfly'
7. Sylvia Plath (America): 'Mirror' and 'Daddy'
8. Emily Dickinson (America): 'After Great Pain, a Former Feeling Comes'
9. Sherman Alexie (America): 'On the Amtrak from Boston to New York City'
10. Lorna Dee Cervantes (America): 'Refugee Ship'

Question Paper Pattern:

1. Three (out of six) long answers. (300 words each)
(3*19= 57 Marks)
2. Three (out of six) short answers. (80 words each)
(3*6= 18 marks)

B. Sharma
12-2-21

HEAD
Department of English
Modern European Language
University of Allahabad
Allahabad, 201002

Paper II
Drama

Max. marks: 75

Duration: 2 hours

1. Eugene O'Neill: Desire Under the Elms
2. Harold Pinter: The Birthday Party
3. Girish Karnad: Hayavadana

Question Paper Pattern:

3. Three (out of six) long answers. (300 words each)
(3*19= 57 Marks)
4. Three (out of six) short answers. (80 words each)
(3*6= 18 marks)

Paper III
Fiction

Max. marks: 75

Duration: 2 hours

1. Jane Austen: Pride and Prejudice
2. E M Forster: A Passage to India

Question Paper Pattern:

5. Three (out of six) long answers. (300 words each)
(3*19= 57 Marks)
6. Three (out of six) short answers. (80 words each)
(3*6= 18 marks)

B. Sharma

12-2-21.

HEAD

Department of English
Modern European Language
University of Allahabad
Allahabad-201002

University of Allahabad
Dept of English & MEL, Faculty of Arts

M A (English Literature) New Syllabus (wef 2016)

Semester System

Semester I

- Paper I - Literary Criticism Aristotle to Eliot
- Paper II - Core British Literature – I
- Paper III - Core American Literature- I
- Paper IV - Core Indian Literature – I
- Paper V - Core New Literatures in English – I

Semester II

- Paper I – Contemporary Literary Theory
- Paper II - Core British Literature - II
- Paper III - Core American Literature - II
- Paper IV - Core Indian Literature - II
- Paper V - Core New Literatures in English - II

Semester III

- Paper I - Core British Literature - III
- Paper II - Optional I (Group A- Electives 1-8)
- Paper III -- Optional II (Group B- Electives – 9-16)
- Paper IV - Project
- Paper V - Viva-Voce

Semester IV

- Paper I - Core British Literature - IV
- Paper II - Optional I (Group C -Electives 17-24)
- Paper III - Optional II (Group D- Electives 25-32)
- Paper IV – Project
- Paper V - Viva-Voce

Course Code Abbreviations

- PELC – P G English Core (Begins from number 501)
- PELE – P G English Electives (Begins from number 601)
- PELP – PG English Project (Begins from number 699)
- PELV – PG English Viva Voce (Begins from number 599)

Subject & Code: Semester – I

Subject	Code
Paper I- Literary Criticism Aristotle to Eliot	PELC – 501
Paper II- British Literature – I	PELC – 502
Paper III- American Literature – I	PELC – 503
Paper IV - Indian Literature – I	PELC – 504
Paper V - New Literatures in English – I	PELC – 505

Subject & Code: Semester – II

Subject	Code
Paper I Contemporary Literary Theory	PELC – 506
Paper II- British Literature – II	PELC – 507
Paper III- American Literature – II	PELC – 508
Paper IV- Indian Literature – II	PELC – 509
Paper V - New Literatures in English – II	PELC – 510

Subject & Code: Semester – III

Subject	Code
Paper I - British Literature – III	PELC – 511
Paper II- Optional I (Group A)(Electives capping 35 students)-	
Elective 1	PELE – 651
Elective 2	PELE –652
Elective 3	PELE – 653
Elective 4	PELE–654
Elective 5	PELE –655
Elective 6	PELE –656
Elective 7	PELE –657
Elective 8	PELE -658

Subject & Code: Semester – III Paper III Optional – II (Group B)

Subject	Code
Paper III- Optional I (Group B) (Electives capping 35 students)	
Elective 9	PELE –659
Elective 10	PELE –660
Elective 11	PELE –661
Elective 12	PELE–662
Elective 13	PELE –663
Elective 14	PELE –664
Elective 15	PELE –665
Elective 16	PELE -666
Paper IV	PELP – 698
Paper V	PELV- 598

Subject & Code: Semester – IV

Subject	Code
Paper I British Literature – IV	PELC – 512
Paper II –Optional I –(Group C) (Electives capping 35 students)	
Elective 17	PELE –667
Elective 18	PELE – 668
Elective 19	PELE – 669
Elective 20	PELE– 670
Elective 21	PELE – 671
Elective 22	PELE – 672
Elective 23	PELE – 673
Elective 24	PELE - 674

Subject & Code: Semester – IV Paper III Optional – II (Group D)

Subject	Code
Paper III (Optional I (Group D)(Electives capping 35 students)	
Elective 25	PELE – 675
Elective 26	PELE – 676
Elective 27	PELE – 677
Elective 28	PELE– 678
Elective 29	PELE – 679
Elective 30	PELE – 680
Elective 31	PELE – 681

Elective 32	PELE -682
Paper IV - Project	PELP – 699
Paper V- Viva	PELV- 599

Note:

Number of hours/periods per Core subject per semester – 5 Days x 15 weeks = 75

Number of hours/periods per Elective subject per semester – 4 Days x 15 weeks = 60

A List of Electives

Note: The List of Operative Electives will be circulated at the beginning of the Semester as per availability of teachers in the department. There will be a capping of 35 students for each Elective in a semester. It will be compulsory for a student opting for an Elective in Optional I of Semester III to study the same Elective as Optional I in Semester IV.

Semester III

Optional I – Paper II Group A

1. Colonial and Postcolonial Studies I
2. Nature and Literature I (Ecopoetics)
3. Irish Literature – I
4. Gender Studies I
5. Theatre in India – I
6. Poetry in India – I
7. Fiction in India – I
8. Existentialism and Literature – I
9. Linguistics, Phonetics and Modern Grammar – I
10. Modern European Drama I

Optional II (Single Paper) – Paper III Group B

1. Children's Literature
2. Partition Literature
3. African Studies
4. Revolution in Literary Fiction
5. Indian Poetics
6. Autobiography, Biography

7. African American Literature
8. Comparative Literature
9. Confessional Poetry

Semester IV–

Optional I - Paper II Group C

(All second papers of Optional I of Semester III)

1. Colonial and Postcolonial Studies II
2. Nature and Literature II (Nature Writing)
3. Irish Literature – II
4. Gender Studies II
5. Theatre in India – II
6. Poetry in India – II
7. Fiction in India – II
8. Existentialism and Literature – II
9. Modern European Drama II
10. Linguistics, Phonetics and Modern Grammar – II

Optional II (Single Author) - Paper III Group D

1. Rushdie
2. Lawrence
3. Shakespeare
4. Milton
5. T S Eliot

6. Virginia Woolf
7. Robert Browning
8. Hardy
9. Dickens
10. O'Neill
11. Vikram Seth
12. A.K. Ramanujan

ASSESSMENT MANUAL

(Semester - 1)

2 Tests T-1 – August (end), T-2 November (end)

15 marks 15 marks

The better of the two

(a) T-1 : 3 marks per period = $5 \times 3 = 15$ marks

(b) T-2 : 3 marks per period = $5 \times 3 = 15$ marks

Each teacher will evaluate all the students of a period and section out of 3 marks. This will add up to 15 marks.

The best of these two tests will be considered. The same formula applies to all the five cores = $15 \times 5 = 75$ marks.

Mid- semester(September)

5 marks per period = $5 \times 5 = 25$ marks

Each teacher will evaluate all the students of a period and section out of 5 marks. This will add up to 25 marks.

The same formula applies to all the five cores = $25 \times 5 = 125$ marks.

Seminar

Each teacher of each seminar group will assess only that group for $10 \times 5 = 50$ marks covering all the papers.

The grand total of internal assessment will be $75 + 125 + 50^* = 250$ marks which is 50% of the spring semester total marks.

There will be fifteen seminar groups with approximately 18 students in each group. Each faculty member in each seminar group will assess each student for $10 \times 5 = 50$ marks through a short written test during the semester.

End Semester (December)

10 marks per period = $10 \times 5 = 50$ marks

Each teacher will evaluate all the students of a period and section out of 10 marks. This will add up to 50 marks. The same formula applies to all the 5 cores.

= $50 \times 5 = 250$ marks.

Note 1:

These 250 marks will be added to the earlier 250 already assessed

= $250+250= 500$ marks.

Note 2

The question paper for the End semester exam will cover the course covered between the Mid Semester and the End semester.

Semester I

Paper I - Literary Criticism (Aristotle to Eliot) Code – PELC- 501

Objectives

- To acquaint the student with the work of significant critics from Aristotle to the present time.
- To familiarize him/ her with important critical movements
- To give him/her first-hand knowledge of some of the works of the great critics
- To enable him/her to apply principles of criticism to literary texts
- To enable him/her to undertake further reading in critical movements and critical theory.

Section A

This section will cover the significant ideas of:

Aristotle, John Dryden, Samuel Taylor Coleridge, Matthew Arnold, T. S. Eliot.

Section B

This section will include the Study of:

The Nature of literature

Form and Content

Poetry and Belief

Types of Criticism

Neoclassical Criticism

Romantic and Impressionistic Criticism

Modernist Criticism

Section C

Practical Criticism

Paper II - Core British Literature**Code – PELC- 502****Objectives:**

- To provide a foundational course with British Literature as the originating literature for English Studies
- To give the student a first-hand knowledge of major literary works of the period.
- To provide the students with knowledge of the political, economic, social and intellectual background so as to enable him to study the works as representatives of the various ages of British literature.
- To acquaint the students with the literary movements, favoured genres, and the evolution and developments of literary forms and to encourage further reading so as to obtain a fuller understanding of these.
- To acquaint the student with contemporary British Literature to bring them at par with the courses running in the leading universities in the country.

Syllabus**Drama**

- 1.) William Shakespeare – *Hamlet*
- 2.) Christopher Marlowe – *Doctor Faustus*
- 3.) John Dryden – *All for Love*

Poetry

- 1.) Geoffrey Chaucer – Lines 1-3; 822-858 (from Prologue to Canterbury Tales)
- 2.) Edmund Spenser – “Bower of Bliss” / “One Day I wrote Her Name Upon The Strand”
- 3.) John Milton – *Paradise Lost* lines 1-26, 242-363 / “On His Blindness”
- 4.) John Donne – “The Canonization” / “The Relique” /
- 5.) William Shakespeare – “When to The Sessions Of Sweet Silent Thought” / “Let Me Not To The Marriage Of True Minds” / “Blow Blow Thou Winter Wind” / “Under the Greenwood Tree”
- 6.) John Dryden – Selection from *Absolom and Achitophel* “The False Achitophel Lines” Og and Doeg”
- 7.) Alexander Pope – *Essay on Man* Ep. II
- 8.) William Blake – “The Little Black Boy” / “London” / “The Tyger” / “The Lamb”

Prose

1. Philip Sidney – *The Defense of Poesy*
2. Francis Bacon – “Of Revenge”/ “Of Marriage and Single Life”
3. Robert Browne – Selections from *Urn Burial* - “The Vanity of Ambition”

Fiction

1. Daniel Defoe – *Robinson Crusoe*
2. Jonathan Swift – *Gulliver’s Travels*
3. Henry Fielding – *Joseph Andrews*
4. Mary Shelley - *Frankenstein*

Paper III - Core American Literature**Code – PELC- 503****Objectives**

- To introduce the student to the literature of the United States of America.
- To familiarize him/her with the important literary movements and development of various genres of literature.
- To give him/her a first-hand knowledge of major writers and classics of American literature.
- To encourage him/her to take interest in the writers belonging to African American, Native American, Mexican, Hispanic, Chicano and Asian American communities. (Marginalized Voices).

Syllabus**Poetry**

1. Walt Whitman – “When Lilacs Last in the Dooryard Bloom’d”, “Crossing Brooklyn Ferry”
2. Robert Frost – “Mending Wall”, “After Apple Picking”, “Birches”
3. Carl Sandburg – “Cool Tombs”, “Harbor”, “Grass”
4. Hilda Doolittle – “The Pool”, “Sea Rose”, “Mid-Day”, “Garden”, “Sea Violet”
5. Amy Lowell – “The Pike”, “Venus Transiens”, “New Heavens for Old”
6. e e cummings – “O Sweet Spontaneous”, “Pity This Monster Manunkind”, “I Sing of Olaf Glad and Big”
7. William Carlos Williams- “The Delineaments of the Gaints” (I&III)
8. Wallace Stevens – “Thirteen Ways of Looking at a Black Bird”, “The Snow Man”, From *The Man with the Blue Guitar* (I & XXII)
9. Langston Hughes – “Cross”, “The Negro Speaks of Rivers”, “Harlem”
10. Gertrude Stein – “What do I See”, “Why Do You Feel Differently”, “Kneeling”, From *Valentine to Sherwood Anderson*

Drama

1. Tennessee Williams – *A Glass Menagerie*
2. Arthur Miller – *Death of a Salesman*
3. Eugene O’ Neil – *Long Days Journey Into Night*
4. Cassandra Medley – *Ma Rose*

Fiction

1. Nathaniel Hawthorne – *Scarlet Letter*
2. Herman Melville – *Moby Dick*
3. Mark Twain – *Adventures of Huckleberry Finn*
4. Harper Lee – *To Kill a Mockingbird*
5. Ernest Hemingway- *For Whom the Bell Tolls*

Prose

1. Henry David Thoreau – *Civil Disobedience*

Paper IV- Core Indian Literature

Code – PELC- 504

Objectives

- To familiarize the student with major Indian writers in English and get their knowledge updated on contemporary Indian literature in English (Till the first decade of 21st century).
- To enable him/her to understand the growth of Indian writing in English in the context of India's contact with English
- To introduce the students with the growth of various literary genres in socio-economic, political and religious context of India.
- To encourage students to understand the significance of Indian Literature in English and take up research.
- To make the students understand the connection between theory and literature in colonial and postcolonial Indian context.

Syllabus**Poetry**

1. Rabindranath Tagore – Excerpts from *Gitanjali* (song no 01, 19, 54)
2. Derozio – “To My Native Land”,
3. Sarojini Naidu – “Song of Radha”, “The Milk Maid”
4. Agha Shahid Ali – “In Arabic” / “Tonight” / “Woolf's Postscript to the Little Red Riding Hood”
5. Dom Moraes – “Spree” / “Letter to my Mother” / “Bells for William Wordsworth”
6. Vikram Seth - “Panchatantra” from *Beastly Tales I* (“Crocodile and the Monkey”)
7. Arun Kolatkar- *Breakfast time At Kala Ghoda*:7, 8, 9, 11, 12, 13, 15, 16, 19, 20, 30
8. Eunice D'Souza – “Catholic Mother”, “My Mother Feared Death” (excerpt)
9. Kamla Das – “An Apology to Gautam”, “The Stone Age”

Fiction

1. R.K.Narayan– *Malgudi Days*
2. Shashi Deshpande– *That Long Silence*
3. Arun Joshi – *Strange Case of Billy Biswas*
4. Anita Desai – *Fire on the Mountain*

Drama

1. Poile Sengupta- *Mangalam*
2. ManjulaPadmanabhan –*Lights Out*
3. Mahesh Dattani– *Dance Like a Man*

Short Story/Prose

1. Nehru – From *Discovery of India*/ “The Epics, History, Tradition and Myth”, “The Mahabharat”, The Bhagwat Gita” , “The Old Indian Theatre”
2. Coomarswamy – From *The Dance of Shiva* “The Dance of Shiva”

Paper V – Core New Literatures in English – I Code – PELC- 505

Australia, New Zealand & Canada

Objectives:

- To introduce the students to a variant of commonwealth literature – Australian, Canadian and literature from New Zealand
- To make him/her approach selected texts for their literary value and cultural importance
- To enable him/her to approach some texts from a cross-cultural perspective.
- To provide the student with a broad perspective of the development of Canadian literature.
- To initiate the process of cross cultural studies and comparative literary studies.

Syllabus

Australia

Fiction

1. Patrick White – *Voss*
2. Sally Morgan- *My Place*

Poetry

1. Shaw Neilson – “*To a Blue Flower*”, “The Bard and the Lizard”
2. James McAuley – “Invocation”, “To Any Poet”
3. Peter Porter – “Your Attention Please”

Drama

1. Allen Saymour – *The One Day of the Year*
2. David Williamson – *Dead White Males*
3. Ray Lawler – *Summer of the Seventeenth Doll*

Prose /Short Story

1. Henry Lawson – ‘The Loaded Dog’
2. Barbara Baynton – ‘The Chosen Vessel’ or ‘Squeaker’s Mate’

New Zealand

Fiction

1. Janet Frame - *Owls Do Cry*

Poetry

2. Allen Curnow – “Time”, “House and Land”

Canada

Fiction

1. Margaret Atwood – *The Blind Assassin*
2. Sinclair Rose- *As for Me and My House*
3. Carol Shields - *Larry’s Party*

Poetry

1. A M Klein – “Indian Reservation: Caughnawaga”
2. P K Page- “First Neighbours”
3. A J M Smith – “Ode on the Death of William Butler Yeats”
4. Wilfred Campbell – “The Winter Lakes”
5. Margaret Atwood – “Journey to the Interior”

Drama

1. Georgee Ryga,- *The Ecstasy of Rita Joe*
2. Sharon Pollack – *Blood Relations*

Prose /Short Story

1. Alice Munro – ‘The Love of a Good Woman’
2. Stephen Leacock- ‘My Financial Career’

Note: Selection of Poems from An Anthology of Commonwealth Poetry edited by C D Narsimhaiah

Semester II

Paper I – Contemporary Literary Theory

Code – PELC – 506

Objectives

- To familiarize him/ her with important critical movements
- To give him/her first-hand knowledge of some of the works of the great critics
- To enable him/her to apply principles of criticism to literary texts
- To enable him/her to undertake further reading in critical movements and critical theory.

Section A

1. New Criticism and Russian Formalism
2. Structuralism
3. Deconstruction
4. Reader Response
5. Marxist Theories, Ideology and Discourse
6. Psychoanalysis
7. **Postcolonial** Theories
8. **Feminism** and Queer Theory
9. New Historicism and Cultural Materialism
10. Postmodernism

Section B

Short answer questions on of the Basic Ideas of:

1. Mikhail Bakhtin
2. Northrop Frye
3. Antonio Gramsci
4. Jurgen Habermas
5. Michel Foucault.
6. Paul Ricoeur
7. Hayden White

Paper II – Core British Literature

Code – PELC- 507

Drama

- 1.) William Congreve – *The Way of the World*
- 2.) Sydney Sheridan- *The School for Scandal*
- 3.) George Bernard Shaw - *Saint Joan*

Poetry

- 1.) Thomas Gray–“The Bard” / “The Progress of Poesy”
- 2.) William Wordsworth – “*The Solitary Reaper*” / “The World Is Too Much With Us”
- 3.) Samuel Taylor Coleridge–“*The Rime of the Ancient Mariner*”
- 4.) Byron–“On This Day I Complete my Thirty Sixth Year”
- 5.) John Keats–When I Have Fears/ *Ode to Autumn* /
- 6.) P B Shelly – “Ozymandias” / “Stanzas Written in Dejection” / “To The Skylark”
- 7.) Tennyson - Ring Out Wild Bells / “Crossing The Bar”
- 8.) Matthew Arnold–“To Marguerite” / “Memorial Verses”

Prose

1. Bunyan (allegory) – From *Pilgrim’s Progress* “The Hill Of Difficulty” and “The Valley of Humiliation”
2. Pepys (diary) – Pepy’s *Diaries* “ The Fire 2nd September 1666”
3. Boswell (biography) – *Life of Samuel Johnson*

Fiction

1. Walter Scott - *Ivan Hoe*
2. Jane Austen – *Persuasion*
3. Charles Dickens – *Oliver Twist*
4. George Eliot – *Silas Mariner*
5. Emily Bronte – *Wuthering Heights*

Paper III- Core American Literature Code – PELC- 508

Objectives:

- To introduce the student to the literature of the United States of America
- To familiarize him/her with the important literary movements and development of various genres of literature.
- To give him/her a first-hand knowledge of major writers and classics of American literature.
- To encourage him/her to take interest in the writers belonging to African American, Native American, Mexican, Hispanic, Chicano and Asian American communities. (Marginalized Voices)

Poetry

1. Allen Ginsburg – “Howl “(line 1-26), “A Supermarket in California”
2. Charles Olson – “Sun Right in My Eye and Maximus”, “To Himself”
3. Garry Snyder – “The Bath”, “Axe Handles”
4. John Berryman – From the *Dream Songs* (1, 14, 29) “Henry’s Understanding”
5. Anne Saxton – “All My Pretty Ones”, “How We Danced”
6. Audre Lorde – From the *House of Yemanja*, “Hanging Fire”
7. June Jordan – “The Reception”, “July 4”, “1984:For Buck”
8. Leslie Marmon Silko – “Long Time Ago”, “Toe’osh: A Laguna Coyote Story”
9. Joy Harjo – “Dear Dancer”, “Insomnia and the Seven Steps to Grace”
10. Denise Levertov – “Pleasures”, “The Day of Art”, “Song for Escher”

Drama

1. Edward Albee – *Zoo Story*
2. August Wilson – *Fences*
3. Lorraine Hansberry – *A Raisin in the Sun*
4. Ntozake Shange – *for colored girls who have considered suicide/when the rainbow is enuf*

Fiction

1. John Steinbeck – *The Grapes of Wrath*
2. Toni Morrison – *Beloved* (African American)
3. Richard Wright – *Black Boy* (African American)
4. Cherrie Moragu's (Hispanic) *Loving in the War Years*
5. Amy Tan's (Asian : Chinese) *The Joy Luck Club*

Prose

1. Thomas Paine – *American Crisis*
2. Edgar Elan Poe – *Philosophy of Composition*

Paper IV – Core Indian Literature –II

Code – PELC- 509

Objectives:

- To familiarize the student with major Indian writers in English and get their knowledge updated on contemporary Indian literature in English (Till First Decade of 21st Century).
- To enable him/her to understand the growth of Indian writing in English in the context of India's contact with English
- To introduce the students with the growth of various literary genres in socio-economic, political and religious context of India.
- To encourage students to understand the significance of Indian Literature in English and take up research.
- To make the students understand the connection between theory and literature in colonial and postcolonial Indian context.

Poetry

1. A. K. Ramanujan – “The Striders” / “Another View of Grace “
2. Sri Aurobindo – “The Pilgrim of the Night”
3. Toru Dutt – Sonnet – “The Lotus”
4. Nizim Ezekiel – “Night of the Scorpion” / “Poet Lover Birdwatcher”, “Jewish Wedding in Bombay”
5. Jayant Mahapatra– From “ Relationship” : ‘two’ / ‘Today I Watch Through The Window Evening Landscape By the River’, “Events”
6. Gieve Patel - “On Killing A Tree” / “License” / “How Do You Withstand Body”
7. K K Daruwalla– “Rumination” / “The King Speaks to the Soldier”
8. Adil Jussawala - “Land’s End” and “The Exile’s Story”

Fiction

1. Bhabani Bhattacharya – *He Who Rides a Tiger*
2. Arvind Adiga- *The White Tiger*
3. Arundhati Roy – *God of Small Things*
4. Amitav Ghosh– *The Hungry Tide*

Drama

1. Asif Currimbhoy- *Goa*

2. Girish Karnad– *Flowers, Broken Images*
3. Dina Mehta – *Getting Away With Murder*

Short Stories/ Prose

1. V.S. Naipaul–*Enigma of Arrival* (nobelprize.org)
2. Ruskin Bond –From *Our Trees Still Grow in Dehra*“The Angry River”

Paper V- Core New Literatures in English- II**Code – PELC- 510****Objectives:**

- To enable the student to understand the main currents of development in English Language writing in the Anglophone parts of Africa and Caribbean islands
- To introduce him/her to a few select writings in English from Africa and the West Indies and Guyana.
- To familiarize him/her the richness of cultural heritage of Africa through major writers and various genres.
- To initiate the process of cross cultural studies and comparative literary studies.

African & Caribbean Literature**Syllabus****African Literature****Fiction**

1. Chinua Achebe- *Things Fall Apart*
2. J M Coetzee- *Foe*

Poetry

1. Danis Brutus – “A Common Hate Enriched Our Love and Us”
2. Gabriel Okara – “The Mystic Drum”
3. BiragoDiop – “Breath”
4. John Pepper Clark – “The Casualties”
5. David Diop- “Africa”

Drama

1. Athol Fugard – *Master Harold*
2. Ama Ata Aidoo - *Anowa*

Caribbean Literature**Fiction**

1. V S Naipaul - *In a Free State*

2. Jean Rhys – *Wide Sargasso Sea*

Poetry

1. Edward Braithwaite – “Tizzic”
2. Derek Walcott – “Ruins of a Great House”
3. Mervyn Morris – “Judas”

Drama

1. Wole Soyinka- *Lion and the Jewel*
2. Derek Walcott – *Drums and Colours*

Note: Selection of Poems from An Anthology of Commonwealth Poetry edited by C D Narsimhaiah

Semester III

Paper I – Core British Literature – III Code – PELC- 511

Drama

- 1.) J M Synge – *Riders to the Sea*
- 2.) John Osborne – *Look Back in Anger*
- 3.) Samuel Beckett – *Waiting for Godot*

Poetry

- 1.) Robert Browning – “Home Thoughts From Abroad” / “The Last Ride Together”
- 2.) Christina Rossetti – “The Blindest Buzzard That I Know” / “While I Sit At The Door”
- 3.) Elizabeth Barrett Browning – “The Cypress stood Up Like a Church”
- 4.) Thomas Hardy – “The Darkling Thrush” / “In The Time of Breaking Of Nations”
- 5.) Gerald Manley Hopkins – “Thou Art Indeed Just” / “Mine Own Heart”
- 6.) W B Yeats – “A Prayer for My Daughter” / “Dialogue of Self and Soul” / “Sailing to Byzantium”
- 7.) Wilfred Owen – “Dulce Et Decorum”
- 8.) T S Eliot – “The Wasteland”

Prose

1. Gibbon (history) – “Decline”
2. Milton – “Freedom of Press” (Aeropagitica)
3. Burke (oration) – “Impeachment of Warren Hastings”

Fiction

1. Joseph Conrad – *Lord Jim*
2. D H Lawrence – *Sons and Lovers*
3. James Joyce – *Portrait of an Artist as a Young Man*
4. Rudyard Kipling – *Kim*

Paper II – Optional – I Elective Subjects

Papers will be chosen from the list of Final Electives capping of 35 students each Elective subject

Total students – 270

Capping per subject – 35

Number of Electives required – $270/35= 7.71$ Or 8 different Elective Subjects

Subject	Code
Paper II- Optional I (Group A)(capping 35 students)-	
Elective 1	PELE – 651
Elective 2	PELE –652
Elective 3	PELE –653
Elective 4	PELE–654
Elective 5	PELE –655
Elective 6	PELE –656
Elective 7	PELE –657
Elective 8	PELE -658

Paper – III – Optional II - Elective Subjects

Papers will be chosen from the list of Final Electives capping of 35 students each Elective subject

Total students – 270

Capping per subject – 35

Number of Electives required – $270/35= 7.71$ Or (8 different Elective Subjects)

Subject	Code
Paper III – Optional II (Group B) (Capping 35 students)	
Elective 9	PELE –659
Elective 10	PELE –660
Elective 11	PELE –661
Elective 12	PELE–662
Elective 13	PELE –663
Elective 14	PELE –664
Elective 15	PELE –665
Elective 16	PELE -666
Paper IV- Project	PELP –698
Paper V – Viva Voce	PELV- 598

Semester IV

Paper I – Core British Literature- IV Code – PELC- 512

Drama

- 1.) Bolt - *Man for All Seasons*
- 2.) Stoppard – *Rosencrantz and Guildenstern are Dead*
- 3.) Delaney – *A Taste of Honey*

Poetry

- 1.) Ezra Pound - “The Return” / “A Pact” / “The River Merchant’s Wife: A Lament” / “Lament Of The Frontier Guard”
- 2.) W H Auden – “The Unknown Citizen” / From *In Time Of War* XIV, XVII, XVIII
- 3.) Dylan Thomas – “The Force That Through The Green Fuse Drives The Flower”/ “And Death Shall Have No Dominion”
- 4.) Philip Larkin – “Faith Healing” / “The Whitsun Wedding”
- 5.) Seamus Heaney – “Casualty” / “The Strand At Lough Beg”
- 6.) Carol Anne Duffy – “Medusa” / “Mrs Lazarus” / “Warming Her Pearls”
- 7.) Tony Harrison – “On Not Being Milton” / “Turns” / “History Classes”
- 8.) MedbhMcGuckian – “The War Ending”/ “The Dream Language of Fergus”
- 9.) Ted Hughes - “The Thought Fox” and “An Otter”

Prose

1. Hobbes – selection from “Leviathan”
2. William Hazlitt (personal) – “Confessions of an Opium Eater”
3. Walter Pater (aesthetics) – From *Appreciations* “Shakespeare’s English Kings”
4. Charles Lamb - *Essays of Elia* – “Poor Relations”/ “Chimney Sweepers”

Fiction

1. Iris Murdoch – *The Sea*
2. Doris Lessing – *Golden Notebook*

Short Story/ Prose (M.Thorpe)

1. E M Forster – *The Eternal Moment*
2. D H Lawrence – *The White Stocking*

Paper II- Optional- I Elective Subjects

Papers will be chosen from the list of Final Electives capping of 35 students each Elective subject

Total students – 270

Capping per subject – 35

Number of Electives required – $270/35= 7.71$ (8 different Elective Subjects)

Subject	Code
Paper II - Optional I(Group C) (Capping 35 students)-	
Elective 17	PELE –667
Elective 18	PELE –668
Elective 19	PELE –669
Elective 20	PELE–670
Elective 21	PELE –671
Elective 22	PELE –672
Elective 23	PELE –673
Elective 24	PELE - 674

Paper III – Optional- II Elective Subjects

Papers will be chosen from the list of Final Electives capping of 35 students each Elective subject

Total students – 270

Capping per subject – 35

Number of Electives required – $270/35= 7.71$ (8 different Elective Subjects)

Subject	Code
Paper III - Optional II (Capping 35 students)(Group D)	
Elective 25	PELE –675
Elective 26	PELE –676
Elective 27	PELE –677
Elective 28	PELE–678
Elective 29	PELE –679
Elective 30	PELE – 680
Elective 31	PELE –681
Elective 32	PELE -682
Paper IV – Project	PELP – 699
Paper V- Viva	PELV- 599

Department of Geography, University of Allahabad

Revised Syllabus for BA / B.Sc. I for Session 2020-21 Paper I: Physical Geography

- Unit-I** Meaning, Scope and Development of Physical Geography; Origin of the Earth-Theories of Kant and James Jeans; Geological History of Earth; Interior of the Earth; Earth's Movements-Endogenetic and Exogenetic, Volcanoes and Earthquakes; Rocks, Weathering; Landforms formed by Running Water, Wind and Glacier.
- Unit-II** Structure and Composition of the Atmosphere; Insolation; Temperature; Pressure Belts and Winds; Humidity and Rainfall; Koeppen Classification of World Climates, Major Climatic types: Equatorial, Monsoon and Mediterranean types.
- Unit-III** Depth zones of the oceans: Bottom relief of Atlantic and Indian Oceans; Salinity; Tides; Ocean Currents; Coral Reefs.
- Unit-IV** Abiotic and Biotic Components of the Biosphere; Characteristics and types of Ecosystem; Biosphere as an Ecosystem; Biotic Succession; Biome Types: Equatorial Rainforest, Savanna and Temperate Grassland Biomes.

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Revised Syllabus for BA / B.Sc. I for Session 2020-21 Paper II: Human Geography

- Unit-I** Nature, scope and development of Human geography; Branches of human geography; Man and Environment relationship - Determinism, Possibilism, Neo-determinism Approaches - ecological, spatial, behavioural and welfare.
- Unit-II** Population growth, Distribution, Migration problems, Races and Tribes; Rural and Urban settlements – Functional types, Patterns and Morphology.
- Unit-III** Types of farming; Agricultural regions of the world; Distribution and production of Iron ore, Coal, Petroleum and hydroelectricity; Location and development of Iron and Steel, Cotton Textile and Fishing; Major Oceanic and Rail routes.
- Unit-IV** Cultural and Social processes - Social Interactions, Social groups, Major Cultural Realms.

Department of Geography, University of Allahabad

Revised Syllabus for BA / B.Sc. I for Session 2020-21 Paper III: Practical

- Section A** Concept of measurement scales -- Nominal, Ordinal,
15 Marks **Interval and Ratio; Map scales - Representative Fraction**
Statistical methods:
(i) Frequency Distribution - Class Intervals, Frequency, Frequency Density, Cumulative and Relative frequency;
(ii) Measure of Central Tendencies; Mean, Weighted mean, Median, Mode.
(iii) Measure of Dispersion-Range, Quartile, Standard Deviation, Variance and Coefficient of Variation.
(iv) Transformation and combination of data; Linear scale, Standard score, Z Score
- Section B** Line Graphs, Circular graph, Compound Bar Graphs,
15 Marks Triangular Graphs. Histograms, Pyramids, Hythergraph and **Climograph.**
- Surveying** **Preparation of map by Radial and Intersection methods**
10 Marks
- Viva-Voce** Based on Field Work
05 Marks
- Record File** Lab Work Based
05 Marks

B.A./B.Sc. Part II Geography

The courses shall be effective from the examination of 2009.

The examination shall comprise two theory papers and one practical examinations. The division of marks shall be as follows:

Paper I: Regional Geography of world: 50 marks (3 hours duration)

Paper II: Geography of India (3 hours duration): 50 marks.

Practical: 50 marks (6 hours duration in two parts)

Candidates are required to pass separately both in theory and in practical examinations.

Practical examination shall be conducted by two internal and one external examiners.

Paper I: Regional Geography of World

(Time 3 hours, Maximum Marks 50)

The question paper will consist of 9 questions. The candidate will be required to attempt five questions in all. Question nos. 1 will be compulsory and short note type consisting of two topics from each unit of which only five are to attempt. The remaining eight questions will be from the four units- two from each unit. The candidate will be required to attempt one question from each unit.

UNIT I

Concept of region in geography; systematic vs regional geography, types and classification of regions (formal and functional), **criteria of delimitation and characteristics of natural, cultural, economic and political regions.**

UNIT II

Asia in the context of world; structure; relief; drainage; climate; natural vegetation and soils; spatial distribution of population; economic base; Regional studies of south, south –east, east and west Asia.

UNIT III

Europe: Physical, economic and demographic characteristics; Regional studies of British Isles, Eastern, Western and Mediterranean realm.

UNIT IV

North /South America and Australia: Physical, economic and demographic set up; Regional studies of USA, Canada, Brazil and Australia.

Books Recommended:

1. R.Hartshorne : Perspective on Nature of Geography.
2. R.Minshull : Regional Geography - Theory and Practice.
3. G.B.Cressey : Asia's Land and People.
4. W.G.Lant, O.H.K.Spate and C.Fisher : Changing map of Asia.
5. N.Ginsberg (ed.) : The Pattern of Asia.
6. J Kole:A Geography of the World's Major Regions,Routledge,London,1996..
7. H.J.Deblj: Geography:Regions and Concepts,John Wiley,New York ,1994
8. R.H.Jakson & L.E.Hudman:World Regional Geography :Issues for Today,John Wiley New York,1991.
9. G.H.Minshull: Western Europe, odd ard & Stoughton,NY.1984.
10. J.H.Patterson: Geography of Canada and the United States, Oxford University Press, 1985.
11. J.P.Kole: Latin America-Economic and Social Geography, Poutterworth, USA,1975
12. S.P.Dickonson et al: The Geography of the Third World, Routledge, London, 1996

13. P.Gourow: The Terrified World: Longman, London,1980
14. P.W.Ward & A Miller World Regional Geography: A Question of Place John Willey, NY,1989

Paper II: Geography of India

(Time 3 hours, Maximum Marks 50)

The question paper will consist of 9 questions .The candidate will be required to attempt five questions in all. Question nos. 1 will be compulsory and short note type consisting of two topics from each unit of which only five are to attempt. The remaining eight questions will be from the four units- two from each unit. The candidate will be required to attempt one question from each unit.

UNIT I

Structure, relief and drainage; climate, origin of monsoon, droughts and floods, climatic classification by Koppen and Thornthwaite; soil types and distribution; soil erosion and conservation; forests - types and their economic utilization.

UNIT II

Major minerals (iron ore, mica, Copper, manganese, bauxite and atomic minerals) - distribution, production and utilization; distribution and production of coal, mineral oil and hydel power; irrigation, agriculture - trends and problems, dry land agriculture, agricultural regions, green and white revolution and agro-climatic regions.

UNIT III

Industrial growth and development; industrial localization with reference to iron and steel, cotton textile, sugar, cement and chemical, and paper industries, Industrial regions; population - density, distribution and growth trends and problems; road, rail and air transport; inland waterways, foreign trade.

UNIT IV

Trends of Urbanization, urban problems, urban slums, urban policy, regional disparities in economic development, planning regions, multi-level planning bases of India federalism, Environmental pollution in India, Geography of Uttar Pradesh.

Books Recommended:

1. R.L.Singh (ed.) : India : A Regional Geography, NGSI, B.H.U., Varanasi 1971.
2. T.C.Sharma and O.Coutinho: Economic and Commercial Geography of India.
3. B.N.Sinha : Industrial Geography of India.
4. O.H.K.Spate and A.T.A.Learmonth : India and Pakistan.
5. D.N.Wadia : Geology of India.
6. R.C.Tiwari,Geography of India,Prayag Pustak Bhawan,Allahabad.
7. D.R.Khullar : India : A Comprehensive Geography, Kalyani Publishers, Ludhiana.
8. India Reference Annual 2006,Publication Division ,Govt. of India,New Delhi
9. Ram Chandra Tiwari:Bharat Ka Bhoogol ,Prayag Pustak Bhawan,Allahabad
10. C.B.Mamoria:Bharat ka Bhoogol ,Sahitya Bhawan,Agra
11. Alka Gautam:Bharat Ka Bhoogol Sharda Pustak Bhawan,Allahabad
12. Bharat 2006:Publication Division, Bharat Sarkar,New Delhi

PRACTICALS

Division of marks in practicals are as follows:

Cartographic and laboratory work	30 marks
Field Work (Surveying)	10 marks

Viva-Voce Test

05 marks

Sessional Record Work

05 marks

Note: Cartographic laboratory work and field work examinations will be of 3 hours duration in each case.

The courses of practicals are arranged in three sections (A, B and C). The candidate has to attempt 3 questions from sections A and B of cartographic laboratory work selecting atleast one question from each section.

Valuation of sessional exercises presented by the candidates.

Books Recommended:

1. R.P.Misra and A.Ramesh : Fundamentals of Cartography, Mc Millan & Co. New Delhi.
2. F.J.Monkhouse and H.R.Wilkinson : Maps and Diagrams, Methuen and Co.
3. A.W.Robinson et.al. : Elements of Cartography, John Wiley and Sons,U.S.A.
4. T.P.Kanitker and S.V.Kulkarni : Surveying and Levelling, Part I, AVA Prakashan.
5. J.P.Sharma:Prayogatmak Bhoogol ,Rastogi & Co.,Meerut
6. R.L.Singh:Prayogatmak Bhoogol ke Tatwa,Tara Prakashan,Varanasi
7. L.R.Singh:Manchitra Kala Tatha Prayogatmak Bhoogol,Central Book Depot,Allahabad
8. R.C.Tiwari evm Sudhaker Tripathi:Abhinav Prayogatmak Bhoogol,Prayag Pustak Bhawan,Allahabad.
9. S.K.Pal: Statistics for Geoscientists-Techniques and Applications, Concept,New Delhi,1998
10. L.R.Singh:Practical Geography,Sharda Pustak Bhawan,Allahabad.
11. R.L.Singh: Elements of Practical Geography, Kalyani Publishers, New Delhi.

B.A./B.Sc. Part III Geography

The courses shall be effective from the examinations of 2010.

The examination shall comprise three theory papers and one practical examination. The division of marks shall be as follows:

Paper I	:History of Geographical Thought (50 marks)
Paper II	:Earth's Dynamic System (50 marks)
Paper III	: Geography of Population and Settlement (50 marks)
Practicals	:75 marks

Candidates are required to pass separately both in theory and practical examinations. Each theory paper shall be of three hours duration and the practical examination will be of four hours duration and will be conducted by two internal and one external examiners.

Paper I: History of Geographical Thought (Time 3 hours, Maximum marks 50)

The question paper will consist of 9 questions. The candidate will be required to attempt five questions in all. Question nos. 1 will be compulsory and short note type consisting of two topics from each unit of which only five are to attempt. The remaining eight questions will be from the four units- two from each unit. The candidate will be required to attempt one question from each unit.

UNIT I

Meaning and scope of geography; Changing philosophy of geography; Geography as an interdisciplinary science; Geography as social science; Geography as a synthesizing science; Explanations in Geography

UNIT II

Development of Geography in the ancient classical period; Contributions of Greek, Roman, Indian and Chinese scholars; Geography in the dark ages –contributions of Arab geographers; Period of renaissance age of explorations and discoveries and their impacts.

UNIT III

Development of Geography in the modern classical period; Rise of philosophical and scientific analysis in geography; Contributions of German, French, British, American and Russian schools of thought

UNIT IV

Dichotomies in geography: physical vs human, systematic vs regional etc. Different approaches to the study of geography – areal differentiation, landscape, ecological and locational. Development of geography in the first half of the 20th century; fundamental concepts in physical, human, economic and settlement geography.

Books Recommended:

1. Minshull: The Changing Nature of Geography
2. Dickinson: The Makers of Modern Geography.
3. Chisholm: Human Geography-Evolution and Revolution
4. D.Harvey: Explanations in Geography, Edward Arnold.
5. East and Wooldridge: The Spirit and Purpose of Geography.
6. P.Haggett: Geography: A Modern Synthesis
7. M.Hussain:Evolution of Geographical Thought,Rawat Publication,Jaipur.
8. R.D.Dixit:Geographical Thought,Prentice Hall of India Pvt .Ltd.New Delhi.
9. R.Hartshorne:Perspective on the Nature of Geography,Rawat Publication,Jaipur.

10. R.J.Chorley & P.Haggett:Models in Geography
11. Majid Hussain:Bhaugolik Vichardharaon ka Itihas,Rawat Pub.,Jaipur
12. R.D.Dixit:Bhaugolik Vichardhara,Prentice Hall of India,Pvt .Ltd.New Delhi.

B.A.Part III

Paper II: Earths Dynamic System

Time: 3 Hours, MM: 50

The courses in the paper are arranged in 4 units and the question paper shall comprise 3 sections (A, B and C) having short answer questions of 50 words each, medium answer questions of 200 words each and long answer questions of 600 words each respectively. All the questions of section A and B shall be compulsory and the candidates have to answer 2 questions from section C. There shall be 8 questions in section A comprising 2 questions from each unit, 4 questions with internal choice in section B comprising one question with internal choice from each unit, and four questions in section C comprising one question from each unit. Each short, medium and long answer questions shall carry 2, 4 and 9 marks respectively.

UNIT –I

Diastrophism; **Origin of Continents, Ocean, Basins;** Theories of Lothian Green, F.B.Taylor, A.G.Wegenen; Plate Tectonic Theory;Isostasy; **Volcanism and associated landforms.**

UNIT-II

Folding and faulting; Formation of folded mountains; Theories of mountain building-geosynclinal theory of Kober, Thermal convection theory of Teffreys, Convection current theory of Holmes, sliding continent theory of Daly, **Plate Tectonic Theory; Earthquakes and Tsunamis**

UNIT-III

Concept of cycle of erosion by W.M.Davis and W.Penck;Interruption in normal cycle of erosion and polycyclic relief; **Mass movement of rock wastes; Mecharism of coastal, ground water and periglacial processes and resultant landforms.**

UNIT-V

Atmospheric dynamics global radiation and global warming; General atmospheric circulation; Walker circulation and southern oscillation; El Nino phenomena-Jet Stream and Monsoon; Tropical and temperate cyclones; hurricanes; tornadoes; thurderstorm; Precipitation dynamics-processes and theories of precipitation.

Books Recommended:

1. A.L.Bloom: Geomorphology, Prentice Hall, New Delhi.
2. B.W.Sparks Geomorphology Longmans,London
3. C.Embleton and C.A.M.King:Glacial and Preiglacial Geomorphology,Edward Arnold Publishers,London
4. M.J.Bradshaw et. al:The Earths Changing Suface,ELBS,U.K.
5. R.J.Chorley,et.al.G geomorphology, Methuen, London.
6. R.J.Small:The Study of Landforms, Cambridge University Press, Cambridge.
7. Savindra Sin gh:Geomorphology,Prayag Pustak Bhawan,Allahabad
8. V.S.Kale and A.Gupta:Introduction to Geomorphology, Orient Longman Ltd.Hyderabad.
9. Savindra Singh Bhuakriti Vigyan,Vasundhara Prakashan,Gorakhpur.
10. D.S.Lal:Climatology,Sharda Pustak Bhawan,Allahabad

11. G.T.Trewartha and L.A.Horn: An Introduction to Climate, International Studies.
12. H.J.Critchfield: General Climatology, Prentice Hall of India, New Delhi.
13. P.K.Das: Monsoons, National BookTrust, New Delhi
14. R.J.Chorley and R.G.Barry: Atmosphere, Weather and Climate, Mathuen & Co. Ltd.London.
15. Savindra Singh : Climatology, Prayag Pustak Bhawan,Allahabad.
16. Savindra Singh :Jalvayu Vigyan, Prayag Pustak Bhawan,Allahabad.

Paper III: Geography of Population and Settlement

(Time 3 hours, Maximum marks 50)

The courses in the paper are arranged in 4 units and the question paper shall comprise 3 sections (A, B and C) having short answer questions of 50 words each, medium answer questions of 200 words each and long answer questions of 600 words each respectively. All the questions of section A and B shall be compulsory and the candidates have to answer 2 questions from section C. There shall be 8 questions in section A comprising 2 questions from each unit, 4 questions with internal choice in section B comprising one question with internal choice from each unit, four questions in section C comprising one question from each unit. Each short, medium and long answer questions shall carry 2, 4 and 9 marks respectively.

UNIT I

Meaning and scope of population geography; population processes -- growth and demographic transition; distribution and density pattern of population; **structure and composition of population with special reference to India; migration of population -- causes and types; distribution and migration of population in India; Population policy in India.**

UNIT II

Population problems - over population, under population; optimum population; population and resources; population -- resource regions; population problems in India; population planning and control -- theories of Malthus, Marx and Rostov; measures of population control in India.

UNIT III

Meaning and scope of settlement geography; evolution and types of settlements; rural settlements - types and patterns, size, spacing and morphology; distribution of rural settlements in Ganga plain; urban settlements -- types and patterns, size, spacing and morphology, classification of towns.

UNIT IV

Hierarchy of towns, central place theory; urbanization processes; **trends of urbanization in the world and in India; problems of urbanization in India; Urban slums and Urban pollution in India; urban fields, suburbs and small towns; rural-urban fringe; problems and planning of urban settlements; Urban policy in India.**

Books Recommended:

(Population)

1. Baljit Singh : Population and Food Planning in India.
2. B.Bhattacharya : Population Geography of India, Jain Book Depot, Hathras.
3. B.N.Ghosh : Fundamentals of Population Geography, Sterling Publisher Pvt. Ltd., New Delhi.
4. Chandana and Mehta : Population Geography.
5. J.I.Clark : Population Geography.
6. W.Thompson : Population Problems, McGraw Hill, New Delhi.

7. Heera Lal :Jansansankhya Bhoogol,Vasundhara Prakashan
8. S.D.Maurya: Jansansankhya Bhoogol ,Sharda Pustak Bhawan,Allahabad

(Settlement)

1. B.Garnier and G.Chabot : Urban Geography, Longman, London.
2. H.Carter : Study of Urban Geography, Hutchinson, London.
3. J.H.Hudson : Geography of Settlements, McDonald and Evans, Plymouth, U.K.
4. J.H.Johnson : Urban Geography, Pergman, Oxford.
5. J.A.Everson and B.P.Fitzerald : Settlement Patterns, Longman, London.
6. R.L.Singh (Ed): Geographic Dimensions of Rural Settlements,N.G.S.I.Varanasi
7. M.Northam Ray : Urban Geography, John Wiley and Sons, London.
8. Om Prakash Singh: Nagariya Bhoogol,Tara Prakashan,Varanasi
9. R.L.Singh (Ed) Rural Settlements in Monsoon Asia,N.G.S.I.Varanasi.
10. L.N.Verma:Adhivas Bhoogol , Rajasthan Hindi Granth Academy,Jaipur.
11. Ram Chandra Tiwari:Adhivas Bhoogol,Prayag Pustak Bhawan,Allahabad
12. S.C.Bansal: Nagariya Bhoogol,Minakshi Prakashan,Meerut.
13. S.D.Maurya: Adhivas bhoogol,Sharda Pustak Bhawan,Allahabad

PRACTICALS

Division of marks in practicals shall be as follows:

Cartographic laboratory work	:	50 marks
Sessional Record Work	:	15 marks
Viva-Voce Test	:	10 marks

Note: Cartographic laboratory work examination shall be of 3 hours duration. Five questions will be set selecting at least one question from each section. The candidate has to attempt 3 questions selecting at least one question from each section. The courses of practicals are arranged in three sections (A, B & C)).

Section A: Primary and Special Purpose Maps

20 marks

1. Topographical maps

- (a) Scales of different topographical maps
- (b) Representation of reliefs: contours - types, intervals, slopes, characteristics and Patterns representation of important landforms by contours and their cross-sections.
- (c) Representation of physical and man-made features by conventional symbols. Description of topographical maps of different physical regions of India.

2. Weather Maps

- (a) Representation of weather elements
- (b) Reading of weather maps
- © Preparation of weather map through given weather summaries.

3. Geological Map

- (a) Representation of rock outcrops, bedding planes, dips and strikes, unconformity and faults.
- (b) Drawing of cross sections and determination of dip angles and bed thickness.
- © Interpretation of Geological Features.

Section B: Processing of mapped information

MM:30 marks

1. Analysis of Settlement- mean centre, standard distance, quadrate count method nearest neighbour method.

2. Analysis of Transport and Drainage network- measurement of length, Transport network-cyclometric number, B Indias and connectivity, matrix. Drainage network ordering, bifurcation ratio and length ratio, drainage density and drainaged district.
3. Analysis of Areas-Slope Indices and contract number measurement of area,
4. Analysis relief, profiles, areas height diagram, relative relief, slope analysis, altimetric and hypsometric analysis.
5. Inferential statistics-parametric and non parametric lists-population and sample, the null hypothesis, level of significance, one and two tailed tests, by type I and Type II errors procedure for conducting a statistical test , chi-square test ,student's T test, variance test (F test)

Section C: Basics of Computer System

Starting word, creating, serving and inserting files; formatting pages, paragraphs and sections; Editing texts; Tabs and tables; Working with charts and graphs; Printing; Application in geographical mapping.

Sessional Record Work: Valuation of sessional exercises presented by the candidate: 15 marks

Viva-Voce Test

MM:10 marks

Books Recommended:

1. A.H.Robinson et.al. : Elements of Cartography, John Wiley.
2. G.M.Bennison : An Introduction to Geological Structures and Maps, Edward Arnold, London.
3. G.C.Dickinson : Maps and Air Photographs, Edward Arnold, London.
4. J.S.Keates : Cartographic Design and Production, Longman, London.
5. M.S.David : Patterns in Human Geography, David Charles, Penguin.
6. N.M.Downie and R.W.Heath : Basic Statistical Methods, Harper Row and Co.
7. S.Gregory : Statistical Methods and Geographer, Longman, London.
8. T.W.Birch : Maps - Topographical and Statistical, Oxford University Press.
9. J.P.Sharma :Prayogatmak Bhoogol,Rastogi & Co. Meerut.
10. J.Singh,V.K.Srivastava & B.P.Rao: Baumikiya Manchitron ki Ruprekha, Vasundhara Prakashan,Gorakhpur .
11. R.C.Tiwari and Sudhaker Tripathi: Abhinav Prayogatmak Bhoogol, Pryag Pustak Bhawan,Allahabad.
12. R.L.Singh: Prayogatmak Bhoogol ke Mool Tatwa,Tara Publication,Varanasi.
13. Russel A.Stulz: Learn Microsoft Word 6.0 for Windows in a day BPB Publications, New Delhi.

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SUMMARY
OF SCHEME OF EXAMINATION, CREDIT SYSTEM, NUMBER OF TEACHING HOURS
AND ASSESSMENT CRITERIA FOR M. A. / M. Sc. In GEOGRAPHY

Semesters	Course Title	Nature	Course Code	Credit			Teaching Hours (Per week)			Assessment				
				L/T	L/F	Total	L/T	L/F	Total	T1/T2	M. S.	E. S.	Total	
SEMESTER - I	Part – A: Theory Courses				L/T	L/F	Total	L/T	L/F	Total	T1/T2	M. S.	E. S.	Total
	Advanced Geomorphology	Core (Physical)	GEO – 501 [S1-I-C]	04	-	04	04	-	04	20	20	60	100	
	Geographical Thought	Core (Human)	GEO – 502 [S1-II-C]	04	-	04	04	-	04	20	20	60	100	
	India	Core (Regional)	GEO – 503 [S1-III-C]	04	-	04	04	-	04	20	20	60	100	
	North America	Elective	GEO – 551 [S1-IV-E1]	04	-	04	04	-	04	20	20	60	100	
	South America		GEO – 552 [S1-IV-E2]											
	Part – B: Practical										V.V. & Record	Survey	Desk Work	
Practical	Lab	GEO – 531 [S1-V-L]	04	02	06	04	04	08	20	20	60	100		
TOTAL				20	02	22	20	04	24	100	100	300	500	
SEMESTER – II	Part –A: Theory Courses				L/T	L/F	Total	L/T	L/F	Total	T1/T2	M. S.	E. S.	Total
	Advance Climatology	Core (Physical)	GEO – 504 [S2-I-C]	04	-	04	04	-	04	20	20	60	100	
	Urban Geography	Core (Human)	GEO – 505 [S2-II-C]	04	-	04	04	-	04	20	20	60	100	
	Population Geography	Core (Systematic)	GEO – 506 [S2-III-C]	04	-	04	04	-	04	20	20	60	100	
	West Asia	Elective	GEO – 553 [S2-IV-E1]	04	-	04	04	-	04	20	20	60	100	
	East Asia		GEO – 554 [S2-IV-E2]											
	Part – B: Practical										V.V. & Record	Survey	Desk Work	
Practical	Lab	GEO – 532 [S2-V-L]	04	02	06	04	04	08	20	20	60	100		
TOTAL				20	02	22	20	04	24	100	100	300	500	

Semesters	Course Title	Nature	Course Code	Credit			Teaching Hours (Per week)			Assessment			
				L/T	L/F	Total	L/T	L/F	Total	T1/T2	M. S.	E. S.	Total
SEMESTER – III	Part –A: Theory Courses			L/T	L/F	Total	L/T	L/F	Total	T1/T2	M. S.	E. S.	Total
	Oceanography	Core (Physical)	GEO – 507 [S3-I-C]	04	-	04	04	-	04	20	20	60	100
	Agriculture Geography	Core (Human)	GEO – 508 [S3-II-C]	04	-	04	04	-	04	20	20	60	100
	Industrial Geography	Core (Systematic)	GEO – 509 [S3-III-C]	04	-	04	04	-	04	20	20	60	100
	Africa	Elective	GEO – 555 [S3-IV-E1]	04	-	04	04	-	04	20	20	60	100
	Australia		GEO – 556 [S3-IV-E2]										
	Part – B: Practical									V.V. & Record	Survey	Desk Work	
Practical	Lab	GEO – 533 [S3-V-L]	04	02	06	04	04	08	20	20	60	100	
TOTAL				20	02	22	20	04	24	100	100	300	500
SEMESTER – IV	Part –A: Theory Courses			L/T	L/F	Total	L/T	L/F	Total	T1/T2	M. S.	E. S.	Total
	Environmental Geography	Core (Physical)	GEO – 510 [S4-I-C]	04	-	04	04	-	04	20	20	60	100
	Political Geography	Core (Human)	GEO – 511 [S4-II-C]	04	-	04	04	-	04	20	20	60	100
	Urban & Regional Planning	Core (Systematic)	GEO – 512 [S4-III-C]	04	-	04	04	-	04	20	20	60	100
	West Europe	Elective	GEO – 557 [S4-IV-E1]	04	-	04	04	-	04	20	20	60	100
	East Europe		GEO – 558 [S4-IV-E2]										
	Part – B: Practical									Project	V. V.	Desk Work	
GEO – 534 [S4-V-L]	Lab	Practical	04	02	06	04	04	08	20	20	60	100	
TOTAL				20	02	22	20	04	24	100	100	300	500
GRAND TOTAL				80	08	88	80	16	96	400	400	1200	2000

Abbreviations:

L/T=Lecture/Tutorials; L/F= Lab/Field Survey; T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

Note: In addition to the number of hours mentioned in the table above, time has been provided for library study, self-study planning etc.

**SCHEME OF EXAMINATION, CREDIT SYSTEM, NUMBER OF TEACHING HOURS
AND ASSESSMENT CRITERIA FOR
M. A. / M. Sc. In GEOGRAPHY**

SEMESTER – I

THEORY CREDITS: 16

PRACTICAL CREDITS: 06

TOTAL CREDITS IN THE SEMESTER: 22

Course Title	Nature	Course code	Credit			Teaching Hours (Per week)			Assessment			
			L/T	L/F	Total	L/T	L/F	Total	T1/T2	M. S.	E. S.	Total
Part –A: Theory Courses												
Advance Geomorphology	Core (Physical)	GEO – 501 [S1-I-C]	04	-	04	04	-	04	20	20	60	100
Geographical Thought	Core (Human)	GEO – 502 [S1-II-C]	04	-	04	04	-	04	20	20	60	100
India	Core (Systematic)	GEO – 503 [S1-III-C]	04	-	04	04	-	04	20	20	60	100
North America	Elective	GEO – 551 [S1-IV-E1]	04	-	04	04	-	04	20	20	60	100
South America		GEO – 552 [S1-IV-E2]										
Part – B: Practical									V.V. & Record	Survey	Desk Work	
GEO – 531 [S1-V-L]	Lab	Practical	04	02	06	04	04	08	20	20	60	100
TOTAL			20	02	22	20	04	24	100	100	300	500

Abbreviations:

L/T=Lecture/Tutorials; **L/F**= Lab/Field Survey; **T1/T2** = Internal Assessment Tests; **M. S.** = Mid Semester Test; **E. S.** = End Semester Exam

Note: In addition to the number of hours mentioned in the table above, time has been provided for library study, self-study planning etc.

FIRST PAPER

GEO - 501 [S1 – I – C]: Advanced Geomorphology (Core – Physical)

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit.

UNIT I

Methods and approaches to the study of landforms; Basic concepts in geomorphology: Structures, Processes and Scales (Stage/Time); Theories of landscape development.

UNIT II

Concept of Plate tectonics; Mass movement of rock waste and resultant landforms; Concept, Evolution and Classification slopes; Theories of slope development.

UNIT III

Fluvial (Process) Geomorphology – Morphometry of drainage basins; Profile of equilibrium; Channel morphology; Climatic Geomorphology and Morphogenetic regions.

UNIT IV

Structural Geomorphology–Fold, Fault and Domal Structures and Landforms; Palaeo and Neo–Geomorphology – Denudation Chronology of peninsular India and Himalayas.

SECOND PAPER

GEO - 502 [S1 – II – C]: Geographical Thought (Core – Human)

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit. The purpose of this course is to inculcate self reading and the teachers are required to motivate the students towards that end.

UNIT I

Development of Geography in second half of the 20th century; Concept of Paradigm; Paradigm shift, Positivism & Logical Positivism, Quantitative Revolution, Models, System Analysis in Geography.

UNIT II

Reactions to Quantitative Revolution, Behavioural Geography – Cognition, Perception, Mental Maps, Decision making and Behaviour, Time – Space Geography, Humanistic Geography – Idealist & Phenomenological Approaches.

UNIT III

Radical Geography, Structuralism, Realism, Functionalism, Welfare Geography, Post – Modernism.

UNIT IV

Modern Developments, Applied Geography and Relevance Debate, Spatial Inequality and Regional Imbalances, Geographers and Policy, Regional Planning, Feminist Geography, Future of Geography.

THIRD PAPER

GEO - 503 [S1 – III – C]: India (Core – Regional)

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit.

UNIT I

Physiographical & Structural Regions of India; Indian Monsoon – Origin, Pattern & Forecast; Floristic Regions; Forest products: Classification of Indian soil; Problems – soil erosion and conservation; National Forest & Soil Policy.

UNIT II

Indian Agriculture; Crop Production & Pattern; New Trends – Dry land farming, Green – White Revolutions, Eco-Farming; Agro-Climatic & Agro-Ecological Regions; Conventional and Non-Conventional Energy – Production & Distribution; Distribution and Production of mineral resources; locational factors of Indian Industries; Industrial Regions.

UNIT III

Urban & Rural Settlements – Types, & Patterns; Urbanisation in India, Primate City, Functional Classification, Urban Morphology; Problems of Rural – Urban Settlements; National Policies & Programmes; Origin and Dispersal of Races in India; Cultural heaths & regions; Major Tribes – Distribution and Classification.

UNIT IV

Five year planning in India: Achievements and Failures; Multi-Level Planning: Planning at National, State, District, Block and Panchayat level; Planning Regions – Bases of delimitation & Classification.

FOURTH PAPER

GEO - 551 [S1 – IV – E1]: North America (Elective 'E1')

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit. The purpose of this course is to inculcate self reading and the teachers are required to motivate the students towards that end.

UNIT I

Location, Physiographic Regions; Drainage Network; Climatic, Soil and Vegetative – Characteristics and Divisions.

UNIT II

Salient Economic Features; Agricultural, Mineral, Energy and Industrial Resources and spatial Pattern.

UNIT III

Salient Demographic Features; Demographic Growth, migration & spatial patterns; Ethnic composition and spatial patterns – language, religion and culture; Major Tribes – Distribution and Classification.

UNIT IV

Geographical study of U. S. A., Canada & Mexico.

FOURTH PAPER

GEO - 552 [S1 – IV – E2]: South America (Elective 'E2')

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit. The purpose of this course is to inculcate self reading and the teachers are required to motivate the students towards that end.

UNIT I

Location, Physiographic Regions; Drainage Network; Climatic, Soil and Vegetative – Characteristics and Divisions.

UNIT II

Salient Economic Features; Agricultural, Mineral, Energy and Industrial Resources and spatial Pattern.

UNIT III

Salient Demographic Features; Demographic Growth, migration & spatial patterns; Ethnic composition and spatial patterns – language, religion and culture; Major Tribes – Distribution and Classification.

UNIT IV

Geographical study of Brazil, Argentina & Venezuela

FIFTH PAPER

GEO - 531 [S1 – V – L]: Practical (Lab)

T1/T2	M. S.	E. S.	Total
20	20	60	100

Record & V. V. = Internal Assessment Tests; **F. S.** = Mid Semester Test; **L. S.** = Desk Work Exam

LABORATORY & FIELD WORK EXAMINATION

Time: 3 hours
Time: 3 hours

Maximum Marks: 60
Maximum Marks: 20

The Syllabi for practical is divided into two sections, Section – A is related to laboratory work, and Section – B is related to Field Work (Surveying). The practical examination including field work examination under section A and B will be of six hours duration divided into two parts of three hours each. The division of marks in practical shall be as given below:-

Laboratory Work	M.M. 60
Field Work	M.M. 20
Record & Viva voce	M.M. 20

The laboratory work is divided into three units. Exercises will be set selecting at least one exercise from each unit. Candidate will have to attempt exercises selecting at least one exercise from each unit.

The field work examination will be of three hours duration in which exercises will be given on surveying.

SECTION – A: LABORATORY WORK

UNIT – I: Cartography:

1. **Earth and its coordinate System:** Definition and classification of projections; Mathematical construction and characteristics of Polar Zenithal Gnomonic, Polar Zenithal Stereographic and Polar Zenithal Orthomorphic Projections.
2. **Point Map and Graded circle map**

UNIT – II: Spatial Statistical Techniques:

1. **Analysis of Drainage Network Pattern:** Drainage Network-bifurcation ratio, length ratio, drainage density, drainage texture, Stream Frequency;

2. **Altimetric Analysis:** Relative Relief, Dissection Index and Analysis of Average Slope; Area-Height diagram, Hypsometric curve, clinograph.

UNIT – III: Physics of Remote Sensing & Digital Data Analysis:

1. **Basics of Remote Sensing:** Stages of Remote Sensing, Electromagnetic Radiation, Spectral Regions, Atmospheric windows, Radiation quantities, Radiation laws, Platforms & Sensors and their spatial, spectral, temporal & radiometric resolutions.
2. Types of matrices, Simple arithmetic operations, Simultaneous equation through matrix.

SECTION – B: FIELD WORK

1. **Surveying: Planimetric details** - Graphic triangulation, plotting of details by plane table and Resection: two and three point problems.

**SCHEME OF EXAMINATION, CREDIT SYSTEM, NUMBER OF TEACHING HOURS
AND ASSESSMENT CRITERIA FOR
M. A. / M. Sc. In GEOGRAPHY**

SEMESTER – II

THEORY CREDITS: 16

PRACTICAL CREDITS: 06

TOTAL CREDITS IN THE SEMESTER: 22

Course code	Nature	Course Title	Credit			Teaching Hours (Per week)			Assessment			
			L/T	L/F	Total	L/T	L/F	Total	T1/T2	M. S.	E. S.	Total
Part –A: Theory Courses												
GEO – 504 [S2-I-C]	Core (Physical)	Advance Climatology	04	-	04	04	-	04	20	20	60	100
GEO – 505 [S2-II-C]	Core (Human)	Urban Geography	04	-	04	04	-	04	20	20	60	100
GEO – 506 [S2-III-C]	Core (Systematic)	Population Geography	04	-	04	04	-	04	20	20	60	100
GEO – 553 [S2-IV-E1]	Elective	West Asia	04	-	04	04	-	04	20	20	60	100
GEO – 554 [S2-IV-E2]		East Asia										
Part – B: Practicals									V.V. & Record	Survey	Desk Work	
GEO – 532 [S2-V-L]	Lab	Practical	04	02	06	04	04	08	20	20	60	100
TOTAL			20	02	22	20	04	24	100	100	300	500

Abbreviations:

L/T=Lecture/Tutorials; **L/F**= Lab/Field Survey; **T1/T2** = Internal Assessment Tests; **M. S.** = Mid Semester Test; **E. S.** = End Semester Exam

Note: In addition to the number of hours mentioned in the table above, time has been provided for library study, self-study planning etc.

FIRST PAPER

GEO - 504 [S2 – I – C]: Advanced Climatology (Core – Physical)

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit.

UNIT I

Meaning and scope of Climatology; Composition and Structure of Atmosphere; Radiation Laws – Wave, Particle, Stefans-Boltzman & Weins Law; Solar Constant; Process of Precipitation; Adiabatic temperature change and Gas Law; Stability and instability; Theories of origin of precipitation and related forms;

UNIT II

Air masses – Origin, growth, classification and distribution. Fronts and frontogenesis; Cyclones and anticyclones – Theories about the origin of temperate cyclones; Origin of Indian Monsoon; Upper air circulation and jet stream;

UNIT III

Climatic Classification of Koppen, Thornthwaite and Strahler; Major climate types and biomes; Weather analysis and Weather forecasting; Weather and human behaviour; Weather modification.

UNIT IV

Climatic change – Causes and theories; Global warming – Evidences, causes and effects; Atmospheric Hazards and Disasters – Tropical Cyclones, tornadoes, thunderstorms and cloud-bursts; El-Nino, La-Nina, Walker Circulation, Southern Oscillation.

SECOND PAPER

GEO - 505 [S2 – II – C]: Urban Geography (Core – Human)

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit.

UNIT I

Meaning, scope, approaches of study & Development of Urban Geography: Theories of urban origin: early urban hearths, the forms of post-modern city; Urban development model - cycle and stages; Types of urbanised regions.

UNIT II

National urban systems; Functional typology; Central place theory; urban settlement spread theories; Urban hierarchy, Rank size rule and its applicability.

UNIT III

Ecological models of Burgess, Hoyt, Harris and Ullman, Manu, Vance and White; Internal structure of city in South Asia.; Rural – urban fringe; Concept of city region and its delimitation.

UNIT IV

Third world urbanization and Theories of urbanization, peripheral, exo and implosion urbanisation, Urban economy and informal sector in Third world city; Third world urban problems, Concept of garden city and new town.

THIRD PAPER

GEO - 506 [S2 – III – C]: Population Geography (Core – Systematic)

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit. The purpose of this course is to inculcate self reading and the teachers are required to motivate the students towards that end.

UNIT I

Nature and scope of population geography; Sources of population data; Methodological problems; Recent developments in population geography; Development of population geography in India;

UNIT II

Population growth and distribution – Classical and modern theories; World patterns and their determinants; Concepts of 'under', 'over' and 'optimum' population; Population composition.

UNIT III

Population Dynamics – Measurement of fertility and mortality; Migration – Causes, types, national and international patterns, rural and urban dimensions.

UNIT – IV

Population-Resource regions; Population planning; Population policies in under-developed and developed countries; Population and socio-economic development; Population and human resource; Human development index.

FOURTH PAPER

GEO - 553 [S2 – IV – E1]: West Asia (Elective 'E1')

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit. The purpose of this course is to inculcate self reading and the teachers are required to motivate the students towards that end.

UNIT I

Location, Physiographic Regions; Drainage Network; Climatic, Soil and Vegetative – Characteristics and Divisions.

UNIT II

Salient Economic Features; Agricultural, Mineral, Energy and Industrial Resources and spatial Pattern.

UNIT III

Salient Demographic Features; Demographic Growth, migration & spatial patterns; Ethnic composition and spatial patterns – language, religion and culture; Major Tribes – Distribution and Classification.

UNIT IV

Geographical study of China & Japan.

FOURTH PAPER

GEO - 554 [S2 – IV – E2]: East Asia (Elective 'E2')

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit. The purpose of this course is to inculcate self reading and the teachers are required to motivate the students towards that end.

UNIT I

Location, Physiographic Regions; Drainage Network; Climatic, Soil and Vegetative – Characteristics and Divisions.

UNIT II

Salient Economic Features; Agricultural, Mineral, Energy and Industrial Resources and spatial Pattern.

UNIT III

Salient Demographic Features; Demographic Growth, migration & spatial patterns; Ethnic composition and spatial patterns – language, religion and culture; Major Tribes – Distribution and Classification.

UNIT IV

Geographical study of Iraq & Iran

FIFTH PAPER

GEO - 532 [S2 – V – L]: Practical (Lab)

T1/T2	M. S.	E. S.	Total
20	20	60	100

Record & V. V. = Internal Assessment Tests; **F. S.** = Mid Semester Test; **L. S.** = Desk Work Exam

LABORATORY & FIELD WORK EXAMINATION

Time: 3 hours

Maximum Marks: 60

Time: 3 hours

Maximum Marks: 20

The Syllabi for practical is divided into two sections, Section – A is related to laboratory work, and Section – B is related to Field Work (Surveying). The practical examination including field work examination under section A and B will be of six hours duration divided into two parts of three hours each. The division of marks in practical shall be as given below:-

Laboratory Work	M.M. 60
Field Work	M.M. 20
Record & Viva voce	M.M. 20

The laboratory work is divided into three units. Exercises will be set selecting at least one exercise from each unit. Candidate will have to attempt exercises selecting at least one exercise from each unit.

The field work examination will be of three hours duration in which exercises will be given on surveying.

SECTION – A: LABORATORY WORK

UNIT – I: Cartography:

- Earth and its coordinate System:** Mathematical construction and characteristics of Conical Two Standard, Bonne's and Polyconic Projections.
- Choropleth and Isopleth Mapping.**

UNIT – II: Spatial Statistical Techniques:

1. **Analysis of Population Data:** methods of data collection and compilation –census, sample survey; Analysis of point pattern: Mean-centre standard deviation, nearest neighbour analysis, quadrant counts method, population potential.
2. **Analysis of line Network:** Transport network – cyclometric number, L.B.V. index;

UNIT – III: Digital Satellite Image & Digital Data Analysis:

3. **Digital Image Processing:** Definition, satellite imagery, structure of digital image, digital data formats – BSQ, BIP & BIL, advantages of digital image, hard & soft copy, Digitization - conversion of hard copy to soft copy.
4. **Digital Image Enhancement:** Methods of Contrast Enhancements: Linear and Non – linear Contrast Enhancement technique, Histogram Equalization and Band Ratioing.

SECTION – B: FIELD WORK

2. **Surveying: Planimetric and Altimetric details-** Establishment of Bench mark and spot heights, Profiling by Level, Telescopic Alidade and plane table.

**SCHEME OF EXAMINATION, CREDIT SYSTEM, NUMBER OF TEACHING HOURS
AND ASSESSMENT CRITERIA FOR
M. A. / M. Sc. In GEOGRAPHY**

SEMESTER – III

THEORY CREDITS: 16

PRACTICAL CREDITS: 06

TOTAL CREDITS IN THE SEMESTER: 22

Course Title	Nature	Course Code	Credit			Teaching Hours (Per week)			Assessment			
			L/T	L/F	Total	L/T	L/F	Total	T1/T2	M. S.	E. S.	Total
Part –A: Theory Courses												
Advance Oceanography	Core (Physical)	GEO – 507 [S3-I-C]	04	-	04	04	-	04	20	20	60	100
Agriculture Geography	Core (Human)	GEO – 508 [S3-II-C]	04	-	04	04	-	04	20	20	60	100
Industrial Geography	Core (Sytematic)	GEO – 509 [S3-III-C]	04	-	04	04	-	04	20	20	60	100
Africa	Elective	GEO – 555 [S3-IV-E1]	04	-	04	04	-	04	20	20	60	100
Australia		GEO – 556 [S3-IV-E2]										
Part – B: Practical									V.V. & Record	Survey	Desk Work	
Practical	Lab	GEO – 533 [S3-V-L]	04	02	06	04	04	08	20	20	60	100
TOTAL			20	02	22	20	04	24	100	100	300	500

Abbreviations:

L/T=Lecture/Tutorials; **L/F**= Lab/Field Survey; **T1/T2** = Internal Assessment Tests; **M. S.** = Mid Semester Test; **E. S.** = End Semester Exam

Note: In addition to the number of hours mentioned in the table above, time has been provided for library study, self-study planning etc.

FIRST PAPER

GEO - 507 [S3 – I – C]: Advanced Oceanography (Core – Physical)

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit.

Unit – I: Oceanography and Geophysical aspects of Oceans

Definition and scope of Oceanography; Historical development of oceanography; Distributional patterns of land and oceans; Plate tectonics and origin of oceans; Depth zones and Hypsometric Curve; Submarine canyons; Bottom relief of oceans; Ocean Deposits.

Unit – II: Properties of Ocean Waters

Chemical composition of ocean waters; Temperature of sea-waters; Salinity of sea-waters; Sea-water density and water masses; Sea Waves; Tides: origin, types and prediction; Oceanic Currents: Causes and Controlling factors, General Patterns of Circulation; El Nino and La Nina;

Unit – III: Marine Ecology

Oceans as Ecosystems; Marine Biota; Zonation of the sea; Energy flow: Food Chains and Food Webs; Mangroves and Estuarine Ecology; Coral Reefs: Formation, distribution, importance and bleaching; Marine Pollution; Climate change and Marine Ecosystem.

Unit – IV: Oceanic Resources

Classification of oceanic resources; Mineral resources; Energy resources; Food resources; Aquaculture and sericulture, Depletion of marine resources; Management, and conservation of marine resources; Indian marine and submarine explorations.

SECOND PAPER

GEO - 508 [S3 – II – C]: Agricultural Geography (Core – Human)

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit.

UNIT I

Meaning, scope, & Development of Agricultural Geography; Approaches of study – commodity, systematic, regional and systems; Origin and dispersal of agriculture – major agricultural hearths; Diffusion of agricultural innovations..

UNIT II

Determinants of agriculture- physical, economic, political, technological, socio-cultural; land reforms, land use survey; Selected agricultural concepts and their measurements – cropping pattern, crop concentration, cropping intensity, degree of commercialisation, diversification and specialization, efficiency and productivity; crop combination regions;

UNIT III

Theories of agricultural location: Von Thunen's model and its modification – Sinclair's approach; Concept of agricultural region: Whittlesey's classification of agricultural regions; Agricultural typology Agro-climatic regions of India; Land use and land capability classification.

UNIT IV

Land use and shifting cropping pattern; new trends in Indian agriculture – Green revolution, white revolution; Food deficit and food surplus regions; Nutritional index; Problems & Policies of Indian agriculture; Agriculture and environmental degradation.

THIRD PAPER

GEO - 509 [S3 – III – C]: Industrial Geography (Core – Systematic)

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit. The purpose of this course is to inculcate self reading and the teachers are required to motivate the students towards that end.

UNIT I

Nature, scope and recent developments in industrial geography; Factors of industrial location; Centralization and decentralization of industries; Horizontal, vertical and diagonal linkages of modern industries.

UNIT II

Theories and models of industrial location: Weber, Losch, Isard and Hoover; Distribution and spatial pattern of major industries Major industrial regions of the world.

UNIT III

Historical review of Indian industrialisation since 1947; Evolution of industrial regions in India; Development of small scale and cottage industries; Multinational corporations and India's industrial scenario; Industrial policy of India.

UNIT IV

Problems of industrial development; Industrial development and environmental degradation; Industries and economic development; Impact of globalisation on industrial development; Industrial decentralization and its impact on urban fringe; Changing industrial policy.

FOURTH PAPER

GEO - 555 [S3 – IV – E1]: Africa (Elective 'E1')

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit. The purpose of this course is to inculcate self reading and the teachers are required to motivate the students towards that end.

UNIT I

Location, Physiographic Regions; Drainage Network; Climatic, Soil and Vegetative – Characteristics and Divisions.

UNIT II

Salient Economic Features; Agricultural, Mineral, Energy and Industrial Resources and spatial Pattern.

UNIT III

Salient Demographic Features; Demographic Growth, migration & spatial patterns; Ethnic composition and spatial patterns – language, religion and culture; Major Tribes – Distribution and Classification.

UNIT IV

Geographical study of Egypt, Sudan and South Africa

FOURTH PAPER

GEO - 556 [S3 – IV – E2]: Australia (Elective 'E2')

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit. The purpose of this course is to inculcate self reading and the teachers are required to motivate the students towards that end.

UNIT I

Location, Physiographic Regions; Drainage Network; Climatic, Soil and Vegetative – Characteristics and Divisions.

UNIT II

Salient Economic Features; Agricultural, Mineral, Energy and Industrial Resources and spatial Pattern.

UNIT III

Salient Demographic Features; Demographic Growth, migration & spatial patterns; Ethnic composition and spatial patterns – language, religion and culture; Major Tribes – Distribution and Classification.

UNIT IV

Geographical study of important Australian State

FIFTH PAPER

GEO - 533 [S3 – V – L]: Practical (Lab)

T1/T2	M. S.	E. S.	Total
20	20	60	100

Record & V. V. = Internal Assessment Tests; **F. S.** = Mid Semester Test; **L. S.** = Desk Work Exam

LABORATORY & FIELD WORK EXAMINATION

Time: 3 hours

Maximum Marks: 60

Time: 3 hours

Maximum Marks: 20

The Syllabi for practical is divided into two sections, Section – A is related to laboratory work, and Section – B is related to Field Work (Surveying).

The practical examination including field work examination under section A and B will be of six hours duration divided into two parts of three hours each. The division of marks in practical shall be as given below:-

Laboratory Work	M.M. 60
Field Work	M.M. 20
Record & Viva voce	M.M. 20

The laboratory work is divided into three units. Exercises will be set selecting at least one exercise from each unit. Candidate will have to attempt exercises selecting at least one exercise from each unit.

The field work examination will be of three hours duration in which exercises will be given on surveying.

SECTION – A: LABORATORY WORK

UNIT – I: Cartography:

- 5. Earth and its coordinate System:** Mathematical construction and characteristics of Sinusoidal, Gall's, Mercator's Projections.
- 6. Map Reference System**

UNIT – II: Spatial Statistical Techniques:

3. **Analysis of Spatial Data:** Scatter diagram, correlation by Spearman's Rank Difference and Karl Pearson's Product Moment Methods, regression residuals;
4. **Sources and Distribution of Data:** Theory of probabilities of distribution; Sampling – Sampling frame and procedure, standard error and sample size.

UNIT – III: Digital Satellite Image & Digital Data Analysis:

5. **Digital Image Rectification:** Definition, Types of errors in satellite images: Scan line dropouts, scan line banding, scan line offsets, atmospheric corrections, geometric corrections – systematic, non-systematic.
6. **Digital Image Enhancement:** Spatial Digital Data Filtering – Concepts of use of Filters, Types of filters and their uses; Standardization of Digital Data Matrix, Correlation of Digital Data Matrix.

SECTION – B: FIELD WORK

1. **Surveying: Planimetric and Altimetric details:**
 - A. Surveying by Indian Clinometer & Plain Table
(Traversing contours by Indian Clinometer)
 - B. Surveying by Theodolite and Chain – Tape
(Angular measurement by Theodolite)

**SCHEME OF EXAMINATION, CREDIT SYSTEM, NUMBER OF TEACHING HOURS
AND ASSESSMENT CRITERIA FOR
M. A. / M. Sc. In GEOGRAPHY**

SEMESTER – IV

THEORY CREDITS: 16

PRACTICAL CREDITS: 06

TOTAL CREDITS IN THE SEMESTER: 22

Course code	Nature	Course Title	Credit			Teaching Hours (Per week)			Assessment			
			L/T	L/F	Total	L/T	L/F	Total	T1/T2	M. S.	E. S.	Total
Part -A: Theory Courses												
Environmental Geography	Core (Physical)	GEO – 510 [S4-I-C]	04	-	04	04	-	04	20	20	60	100
Political Geography	Core (Human)	GEO – 511 [S4-II-C]	04	-	04	04	-	04	20	20	60	100
Urban & Regional Planning	Core (Systematic)	GEO – 512 [S4-III-C]	04	-	04	04	-	04	20	20	60	100
West Europe	Elective	GEO – 557 [S4-IV-E1]	04	-	04	04	-	04	20	20	60	100
East Europe		GEO – 558 [S4-IV-E2]										
Part - B: Practical									Project	V. V.	Desk Work	
Practical	Lab	GEO – 534 [S4-V-L]	04	02	06	04	04	08	20	20	60	100
TOTAL			20	02	22	20	04	24	100	100	300	500

Abbreviations:

L/T=Lecture/Tutorials; **L/F**= Lab/Field Survey; **T1/T2** = Internal Assessment Tests; **M. S.** = Mid Semester Test; **E. S.** = End Semester Exam

Note: In addition to the number of hours mentioned in the table above, time has been provided for library study, self-study planning etc.

FIRST PAPER

GEO - 510 [S4 – I – C]: Environmental Geography (Core – Physical)

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question no. 1 will be compulsory and short note type consisting of four topics – one from each unit. The remaining eight questions will be from four units- two from each unit. The candidate will be required to attempt one question from each unit.

UNIT I

Meaning and Scope of environmental geography; Basic principles of environmental geography; Composition and types of environment; Ecological principles; Man – environment relationship.

UNIT II

Ecosystem: concept and components; Trophic levels; Food chains and food webs; Energy flow in the ecosystem; Circulation of matter in the ecosystem, geobiochemical cycle, ecosystem productivity, ecosystem stability.

UNIT III

Environmental degradation; Extreme events, hazards and disasters (earthquake, volcanoes, cyclones, floods); Environmental pollution (air, water, solid waste, soil and noise pollution); Environmental pollution in India; Environmental Problems – global warming, ozone depletion, land degradation, reduction in biodiversity.

UNIT IV

Environmental management: concept and approaches; Environmental dimension in planning – sustainable development; Environmental consciousness, Environmental policy; environmental legislation; Environmental impact assessment; Disaster management.

SECOND PAPER

GEO - 511 [S4 – II – C]: Political Geography (Core – Human)

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question no. 1 will be compulsory and short note type consisting of four topics – one from each unit. The remaining eight questions will be from four units- two from each unit. The candidate will be required to attempt one question from each unit.

UNIT I

Meaning, scope, approaches of study & Development of Political Geography; Major schools of thought; Concept of state and nation; Spatial factors of state; Buffer state, core area, ecumene, capital city, frontiers and boundaries.

UNIT II

Concepts of geo-strategy; World geopolitics in changing perspectives- colonialism to federalism; Geostrategic ideas of Mahan, Mackinder, Spyman, Cohen and Seversky and their relevance in the modern world.

UNIT III

Geopolitical significance of the Indian Ocean; Role of third world countries; Political geography and regional co-operation; Geopolitical study of USA, SE Asia, S. W. Asia, S. Asia and Africa.

UNIT IV

Nature and scope of electoral geography; Geography of elections with special reference to India; Changing political map of India; Interstate issues; Insurgency in border states; Emergence of new states.

THIRD PAPER

GEO - 512 [S4 – III – C]: Urban & Regional Planning (Core – Systematic)

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit. The purpose of this course is to inculcate self reading and the teachers are required to motivate the students towards that end.

UNIT I

Concept of regional planning; Types of regional planning; City as unit of regional planning; Approaches to regional planning; Historical development of regional planning- -Developed and Developing world.

UNIT II

Methodology and techniques of regional planning; Analytical techniques and procedural techniques; Principles of rationalisation; Indicators of development and their data sources; Measures of regional development and regional disparities; Planning processes- Sectoral and spatial planning; short-term and long-term perspective planning; Multi regional and multilevel planning.

UNIT III

Regional development strategies: Export base theory, convergence theory, Growth poles and growth centres in regional development; Industrial dispersal and backward area development; Identification of planning regions; Regional planning strategies for backward areas-- drought prone area, hill area, tribal area and rural area.

UNIT IV

Role of Urban centres in Regional planning; Urban scenario in India; City regions and city problems; Problems of poorly urbanized areas; Strategies for urban planning; Metropolitan planning, preparation of master plans, city region planning.

FOURTH PAPER

GEO - 557 [S4 – IV – E1]: West Europe (Elective 'E1')

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit. The purpose of this course is to inculcate self reading and the teachers are required to motivate the students towards that end.

UNIT I

Location, Physiographic Regions; Drainage Network; Climatic, Soil and Vegetative – Characteristics and Divisions.

UNIT II

Salient Economic Features; Agricultural, Mineral, Energy and Industrial Resources and spatial Pattern.

UNIT III

Salient Demographic Features; Demographic Growth, migration & spatial patterns; Ethnic composition and spatial patterns – language, religion and culture; Major Tribes – Distribution and Classification.

UNIT IV

Geographical study of U. K., France and Germany

FOURTH PAPER

GEO - 558 [S4 – IV – E2]: East Europe (Elective 'E2')

T1/T2	M. S.	E. S.	Total
20	20	60	100

T1/T2 = Internal Assessment Tests; M. S. = Mid Semester Test; E. S. = End Semester Exam

END SEMESTER EXAMINATION

Time: 3 hours

Maximum Marks: 60

The question paper will consist of 09 questions. The candidate will be required to attempt 05 questions in all. Question No. 1 will be compulsory and short – note type consisting of four topics one from each unit. The remaining 8 questions will be from the four units – two from each unit. The candidate will be required to attempt one question from each unit. The purpose of this course is to inculcate self reading and the teachers are required to motivate the students towards that end.

UNIT I

Location, Physiographic Regions; Drainage Network; Climatic, Soil and Vegetative – Characteristics and Divisions.

UNIT II

Salient Economic Features; Agricultural, Mineral, Energy and Industrial Resources and spatial Pattern.

UNIT III

Salient Demographic Features; Demographic Growth, migration & spatial patterns; Ethnic composition and spatial patterns – language, religion and culture; Major Tribes – Distribution and Classification.

UNIT IV

Geographical study of Ukraine, Greece and European Russia

FIFTH PAPER

GEO - 534 [S4 – V – L]: Practical (Lab)

Project	Record & V. V.	Desk Work	Total
20	20	60	100

Record & V. V. = Internal Assessment Tests; **F. S.** = Mid Semester Test; **L. S.** = Desk Work Exam

LABORATORY & FIELD WORK EXAMINATION

Time: 3 hours
Time: 3 hours

Maximum Marks: 60
Maximum Marks: 20

The Syllabi for Practicals are divided into two sections, Section – A is related to laboratory work, and Section – B is related to Field Work (Surveying).

The practical examination including field work examination under section A and B will be of six hours duration divided into two parts of three hours each. The division of marks in practicals shall be as given below:-

Laboratory Work	M.M. 60
Project	M.M. 20
Record & Viva voce	M.M. 20

The laboratory work is divided into three units. Exercises will be set selecting at least one exercise from each unit. Candidate will have to attempt exercises selecting at least one exercise from each unit.

SECTION – A: LABORATORY WORK

UNIT – I: Cartography:

- 7. Earth and its coordinate System:** Mathematical construction and characteristics of Cylindrical equal area, Equi-Distant, Orthomorphic and Mollewide, Interrupted case of Sinusoidal Projections with continents and Oceans of world.

8. **Analysis of Geological Map.**

UNIT – II: Spatial Statistical Techniques:

5. **Hypothesis testing:** Chi-square test, binomial test, t-test, Mann-Whitney U test, Analysis of variance; Multivariate analysis; Gravity potential model; Trend surface analysis – simulation model, **diffusion models.**

UNIT – III: Digital Satellite Image & Digital Data Analysis:

7. **Geographical Information System (GIS):** Definition, components of GIS, forms of spatial data storage- node, arc, polygon; formats of spatial data – raster and vector; attribute data; database management systems – network, hierarchical and relational.
8. **Image Classification Techniques:** Basic principles and elements of principal component analysis;

SECTION – B: FIELD WORK

1. **Research Project:** Topic to be assigned by the supervisor.

आधुनिक हिन्दी कविता

1. मैथिलीशरण गुप्त: आलोचना और व्याख्या

आधुनिक खड़ी बोली कविता का आरम्भ, द्विवेदी युगीन काव्य-प्रवृत्तियां और मैथिलीशरण गुप्त, गुप्त जी का जीवन परिचय और रचनाएं, राम काव्य परम्परा में साकेत, साकेत की मौलिकता तथा आधुनिकता, साकेत का महाकाव्यत्व, भाव-व्यंजना, पात्र-परिकल्पना, भाषा, नवम सर्ग का काव्य सौष्ठव तथा संवेदना।

- व्याख्या हेतु निर्धारित पाठ - 'साकेत : नवम सर्ग' (दूसरा भाग)

2. जयशंकर प्रसाद: आलोचना और व्याख्या

प्रसाद का जीवन परिचय और रचनाएं, छायावादी काव्य की प्रवृत्तियां और कामायनी, कामायनी का महाकाव्यत्व, युगबोध, चिंता सर्ग का काव्य सौष्ठव, कामायनी की भाषा।

- व्याख्या हेतु निर्धारित पाठ - कामायनी (चिंता सर्ग)

3. सूर्यकान्त त्रिपाठी 'निराला' : आलोचना और व्याख्या

'निराला' का जीवन परिचय और रचनाएं, 'निराला' की विद्रोही चेतना, प्रगतिशीलता, काव्य की बहुआयामी प्रवृत्ति, काव्यभाषा।

- व्याख्या हेतु निर्धारित कविताएं - बादल राग (तिरती है समीर सागर से), अधिवास, तोड़ती पत्थर।

(राग-विराग - सं० डॉ० राम विलास शर्मा)

4. सुमित्रानन्दन पंत: व्याख्या और आलोचना

पंत का जीवन परिचय और रचनाएं, पंत की काव्य संवेदना और काव्य शिल्प, सौन्दर्य दृष्टि और प्रकृति चित्रण, काव्य भाषा।

- व्याख्या हेतु निर्धारित कविताएं - भारत माता, नौका विहार, ताज। (आधुनिक कवि पंत - हिन्द साहित्य सम्मेलन, इलाहाबाद)

5. रघुवीर सहाय: आलोचना और व्याख्या

रघुवीर सहाय का जीवन परिचय और रचनाएं, रघुवीर सहाय की काव्य संवेदना, काव्य भाषा और काव्य शिल्प।

- व्याख्या हेतु निर्धारित कविताएं - पढ़िए गीता, अधिनायक, अकाल और आत्महत्या के विरुद्ध। (रघुवीर सहाय: प्रतिनिधि कविताएं, राजकमल प्रकाशन, नई दिल्ली)

6. सच्चिदानन्द हीरानन्द वात्स्यायन 'अज्ञेय' : व्याख्या और आलोचना

'अज्ञेय' का जीवन परिचय और रचनाएं, प्रयोगवाद और 'अज्ञेय' , 'अज्ञेय' की काव्य संवेदना और काव्य शिल्प।
व्याख्या हेतु निर्धारित कविताएं - आज थका हिय हरिल मेरा, बावरा अहेरी, शब्द और सत्य एवं मेरे देश की आंखें।
(अज्ञेय की कविताएं - सं० विद्यानिवास मिश्र, राजपाल एण्ड संस, नई दिल्ली)

7. गजानन माधव 'मुक्तिबोध' : व्याख्या और आलोचना

'मुक्तिबोध' का जीवन परिचय, काव्य रचनाएं, नई काव्य संवेदना, प्रगतिशीलता, काव्य भाषा एवं शिल्प विधान।
व्याख्या हेतु निर्धारित कविताएं - मैं उनका ही होता, मैं तुम लोगों से दूर हूं, कहने दो उन्हें जो यह कहते हैं और भूल गलती। (मुक्तिबोध: प्रतिनिधि कविताएं, राजकमल प्रकाशन नई दिल्ली)

8. 'नागार्जुन' : व्याख्या और आलोचना

'नागार्जुन' का जीवन परिचय, काव्य रचनाएं, प्रगतिशील-चेतना, काव्यवस्तु, काव्य शिल्प, काव्य भाषा।
व्याख्या हेतु निर्धारित कविताएं - पछाड़ दिया मेरे आस्तिक को, बहुत दिनों के बाद, बादल को घिरते देखा है और सिंदूर तिलकित भाल। (नागार्जुन: प्रतिनिधि कविताएं, राजकमल प्रकाशन, नई दिल्ली)

9. सर्वेश्वर दयाल सक्सेना: व्याख्या और आलोचना

सर्वेश्वर का जीवन परिचय एवं आलोचना, काव्यवस्तु, काव्य संवेदना, काव्य शिल्प।
व्याख्या हेतु निर्धारित कविताएं - सुहागिन का गीत, लीक पर वे चलें, भूख और फसल। (सर्वेश्वर दयाल सक्सेना: प्रतिनिधि कविताएं , राजकमल प्रकाशन, नई दिल्ली)

10. केदार नाथ अग्रवाल: व्याख्या और आलोचना

केदार नाथ अग्रवाल का जीवन परिचय एवं आलोचना, काव्यवस्तु, काव्यसंवेदना, काव्यशिल्प।
व्याख्या हेतु निर्धारित कविताएं - बसंती हवा, वीरांगना, मोर्चे पर और किसान से।
(पाठ्य पुस्तक - 'आधुनिक काव्य' , हिन्दी परिषद प्रकाशन, हिन्दी विभाग, इलाहाबाद विश्वविद्यालय, इलाहाबाद।)

सहायक पुस्तकें

अजय तिवारी	: केदार नाथ अग्रवाल
प्रेम शंकर	: प्रसाद का काव्य
नगेन्द्र	: कामायनी के अध्ययन की समस्याएं
दूधनाथ सिंह	: निराला: आत्महंता आस्था
बच्चन सिंह	: क्रान्तिकारी कवि निराला
राम कमल राय	: अज्ञेय: सृजन और संघर्ष
अशोक चक्रधर	: मुक्तिबोध की रचना प्रक्रिया
अजय तिवारी	: नागार्जुन का काव्य
परमानंद श्रीवास्तव	: कविता का अर्थात्
रामस्वरूप चतुर्वेदी	: नई कविताएं: एक साक्ष्य
विश्वम्भर मानव एवं राम किशोरशर्मा	: आधुनिक कवि
कृपाशंकर पाण्डेय	: सर्वेश्वर, मुक्तिबोध और अज्ञेय
सुरेश शर्मा	: रघुवीर सहाय का कवि कर्म

बी0ए0 प्रथम वर्ष
द्वितीय प्रश्न पत्र

गद्य साहित्य: विभिन्न विधाएं

निबन्ध

भारतेन्दु हरिश्चंद्र	: भारत वर्षोन्नति कैसे हो सकती है?
बालमुकुन्द गुप्त	: एक दुराशा
रामचन्द्र शुक्ल	: क्रोध
हजारी प्रसाद द्विवेदी	: कुटज
हरिशंकर परसाई	: विकलांग श्रद्धा का दौर
विद्यानिवास मिश्र	: घने नीम तरु तले
सच्चिदानंद हीरानंद वात्स्यायन 'अज्ञेय'	: बसंत का अग्रदूत (संस्मरण)
फणीश्वर नाथ रेणु	: 'तीसरी कसम' के सेट पर (रिपोर्टाज)
पाठ्य पुस्तक - ' नवीन निबन्ध संग्रह' ,	हिन्दी परिषद प्रकाशन, हिन्दी विभाग, इलाहाबाद विश्वविद्यालय, इलाहाबाद।

कहानी

प्रेमचंद	: गुल्ली - डंडा
चन्द्रधर शर्मा 'गुलेरी'	: उसने कहा था
जयशंकर प्रसाद	: पुरस्कार
यशपाल	: महाराजा का इलाज
अमरकान्त	: दोपहर का भोजन
भीष्म साहनी	: चीफ की दावत
चित्रा मुद्गल	: भूख
शिवमूर्ति	: सिरी उपमा जोग
उपन्यास	
प्रेमचन्द	: निर्मला

नाटक

असगर वजाहत	: जिन लाहौर नहीं देख्यां सो जन्म्यां नहिं
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एकांकी

रामकुमार वर्मा	: उत्सर्ग
उपेन्द्रनाथ 'अशक'	: तौलिए
लक्ष्मी नारायण लाल	: व्यक्तिगत
भुवनेश्वर	: श्यामा: एक वैवाहिक विडम्बना

पाठक पुस्तक - प्रतिनिधि एकांकी संग्रह - हिन्दी परिषद प्रकाशन, हिन्दी विभाग, इलाहाबाद विश्वविद्यालय, इलाहाबाद।

सहायक पुस्तकें

राम विलास शर्मा	: भारतेन्दु युग और हिन्दी भाषा की विकास परम्परा
रामचन्द्र तिवारी	: हिन्दी का गद्य-साहित्य
रामविलास शर्मा	: प्रेमचन्द और उनका युग
नामवर सिंह	: कहानी: नयी कहानी
देवीशंकर अवस्थी	: हिन्दी कहानी: सन्दर्भ और प्रकृति
गिरीश रस्तोगी	: मोहन राकेश के नाटक
रामकुमार वर्मा	: एकांकी कला
शिवमूर्ति	: केसर कस्तूरी
सच्चिदानंद हीरानंद वात्स्यायन 'अज्ञेय'	: स्मृति लेखा

बी0ए0 द्वितीय वर्ष

प्रथम प्रश्न पत्र

मध्यकालीन काव्य

1. विद्यापति: अध्ययन एवं आलोचना

- संक्षिप्त जीवनवृत्त और रचनाएं
- शृंगार काव्य परम्परा और विद्यापति
- विद्यापति के काव्य में भक्ति चेतना
- निर्धारित पदों की व्याख्या (संकलन - 'मध्यकालीन काव्य' , हिन्दी परिषद प्रकाशन, हिन्दी विभाग, इलाहाबाद विश्वविद्यालय, इलाहाबाद।)

2. कबीरदास: अध्ययन एवं आलोचना

- संक्षिप्त जीवनवृत्त और रचनाएं
- निर्गुण परम्परा और कबीर
- विचारधारा और साधना का स्वरूप
- कबीर का युगबोध
- कबीर की भक्ति, समाज चेतना और भाषा
- निर्धारित पद तथा साखियों की व्याख्या (संकलन - 'मध्यकालीन काव्य' , हिन्दी परिषद प्रकाशन, हिन्दी विभाग, इलाहाबाद विश्वविद्यालय, इलाहाबाद।)

3. सूरदास: अध्ययन एवं आलोचना

- संक्षिप्त जीवनवृत्त और रचनाएं
- कृष्णभक्ति परम्परा और सूरदास
- सूरदास में वात्सल्य और शृंगार
- सूरदास की काव्य-कला और काव्य-भाषा
- निर्धारित पदों की व्याख्या (संकलन - 'मध्यकालीन काव्य' , हिन्दी परिषद प्रकाशन, हिन्दी विभाग, इलाहाबाद विश्वविद्यालय, इलाहाबाद।)

4. तुलसीदास: अध्ययन एवं आलोचना

- संक्षिप्त जीवनवृत्त और रचनाएं
- सगुण राम-काव्य परम्परा और तुलसीदास
- 'रामचरित-मानस' के प्रबन्ध कौशल में 'अयोध्याकाण्ड' का स्थान

• लोकमंगल और समन्वयात्मक दृष्टि

- तुलसी की भक्ति का स्वरूप
- तुलसी का काव्य-शिल्प
- संकलित रचनाओं की व्याख्या (संकलन - 'मध्यकालीन काव्य' , हिन्दी परिषद प्रकाशन, हिन्दी विभाग, इलाहाबाद विश्वविद्यालय, इलाहाबाद।)

5. मलिक मुहम्मद जायसी: अध्ययन एवं आलोचना

- संक्षिप्त जीवनवृत्त और रचनाएं
- सूफी प्रेमाख्यानक काव्य-परम्परा और जायसी
- जायसी के काव्य में प्रेम, विरह-वर्णन और प्रकृति चित्रण
- जायसी की भाषागत विशेषताएं
- 'पद्मावत' के 'नागमती वियोग खण्ड' की व्याख्या (संकलन - 'मध्यकालीन काव्य' , हिन्दी परिषद प्रकाशन, हिन्दी विभाग, इलाहाबाद विश्वविद्यालय, इलाहाबाद।)

6. मीराबाई: अध्ययन एवं आलोचना

- संक्षिप्त जीवनवृत्त और रचनाएं
- भक्ति-काव्य का स्त्री स्वर और मीरा
- मीरा के काव्य में भक्ति-भावना , प्रेम एवं विरह
- गीति-काव्य परम्परा में मीरा का स्थान
- निर्धारित पदों की व्याख्या

निर्धारित पुस्तक - 'मीराबाई की पदावली' सं० आचार्य परशुराम चतुर्वेदी, हिन्दी साहित्य सम्मेलन, इलाहाबाद (प्रथम खंड) ।

(पद सं० - 3,7,19,23,25,32,33,38,45,57= 10 पद) (मध्यकालीन काव्य में संकलित)

7. बिहारी: अध्ययन एवं आलोचना

- मुक्तक-काव्य परम्परा और बिहारी
- बिहारी की कलात्मकता
- बिहारी काव्य में रीति तत्व एवं बिहारी की काव्य-भाषा
- संकलित दोहों की व्याख्या (संकलन - 'मध्यकालीन काव्य' , हिन्दी परिषद प्रकाशन, हिन्दी विभाग, इलाहाबाद विश्वविद्यालय, इलाहाबाद।)

8. घनानंद: अध्ययन एवं आलोचना

- संक्षिप्त जीवनवृत्त और रचनाएं
- रीति-काव्य परम्परा और घनानंद
- घनानंद की प्रेम-संवेदना और भाषा
- काव्य-कला
- संकलित पदों की व्याख्या (संकलन - 'मध्यकालीन काव्य' , हिन्दी परिषद प्रकाशन, हिन्दी विभाग, इलाहाबाद विश्वविद्यालय, इलाहाबाद।)

सहायक पुस्तकें

विद्यापति	: शिवप्रसाद सिंह
कबीर	: हजारी प्रसाद द्विवेदी
कबीर मीमांसा	: रामचन्द्र तिवारी
तुलसीदास	: रामचन्द्र शुक्ल
तुलसी	: माता प्रसाद गुप्त
सूरदास	: रामचन्द्र शुक्ल
सूर-साहित्य	: हजारी प्रसाद द्विवेदी
जायसी	: विजयदेव नारायण साही
बिहारी की वाग्बिभूति	: विश्वनाथ प्रसाद मिश्र
घनानंद का काव्य	: रामदेव शुक्ल
मध्यकालीन धर्म साधना	: हजारी प्रसाद द्विवेदी
भक्तिकाव्य और लोक जीवन	: शिवकुमार मिश्र
भक्तिकाव्य की सामाजिक पृष्ठभूमि	: प्रेमशंकर
मीरा का काव्य	: विश्वनाथ त्रिपाठी

बी0ए0 द्वितीय वर्ष

द्वितीय प्रश्न पत्र

हिन्दी साहित्य का इतिहास

1. साहित्येतिहास की सामग्री

- संचयन, वर्गीकरण और उपयोग
- इतिहास लेखन की दृष्टियां और परंपरा
- काल विभाजन: आधार और नामकरण

2. आदिकाल (1400 ई0 तक)

- साहित्यिक, सांस्कृतिक और सामाजिक संदर्भ
- साहित्य की अभिव्यक्ति का स्वरूप

(क) सिद्ध साहित्य, (ख) नाथ साहित्य, (ग) जैन साहित्य, (घ) रासो-साहित्य, (ङ) अमीर खुसरो का हिन्दी साहित्य एवं (च) विद्यापति का काव्य।

3. भक्तिकाल (1400 ई0 से 1600 ई0 तक)

- पृष्ठभूमि और संदर्भ

सामाजिक, सांस्कृतिक, धार्मिक, राजनैतिक स्थितियां और भक्ति-आन्दोलन की प्रेरक शक्तियां

- निर्गुण भक्ति साहित्य

(क) संत साहित्य और कबीर, संत-साहित्य की मुख्य विशेषताएं

(ख) प्रेमाख्यानक-काव्य और जायसी, प्रेमाख्यानक -काव्य की विशेषताएं

- सगुण भक्ति साहित्य (क) रामकाव्य-परंपरा और तुलसी, रामकाव्य की विशेषताएं

(ख) कृष्णकाव्य-परंपरा और सूरदास, कृष्णकाव्य की विशेषताएं

- भक्तिकालीन काव्य-संवेदना और अभिव्यक्ति-विधान
- भक्ति-काव्य की सामाजिक तथा सांस्कृतिक-चेतना

4. रीतिकाल (1600 ई0 से 1850 ई0 तक)

- रूढ़ि और मौलिकता

अ) शास्त्रगत, शिल्पगत, छन्दगत, भाषागत प्रयोग

ब) संवेदना, कलादृष्टि और सृजनशीलता

स) केशव, मतिराम, देव, बिहारी और घनानंद आदि कवियों का योगदान

- रीतिकाव्य का वर्गीकरण - रीतिबद्ध, रीतिसिद्ध, रीतिमुक्त
- रीतिकाल की साहित्यिक प्रवृत्तियां और विशेषताएं

5. आधुनिक काल (1850 ई0 के बाद)

क) मध्ययुगीनता और आधुनिकता का अर्थ और अन्तर

ख) 19वीं शताब्दी के पुनर्जागरण का रूप

ग) पुनर्जागरण और हिन्दी क्षेत्र

(i) खड़ी-बोली गद्य का विकास और प्रयोग

(ii) साहित्य और संस्कृति

घ) भारतेन्दु और उनके युग के लेखक

(अ) लोक-चेतना (ब) पत्रकारिता (स) साहित्य उन्मेष (द) सामाजिक दृष्टि

ङ) द्विवेदी युग और नवजागरण: संवेदना और दृष्टि

च) विभिन्न काव्यान्दोलन, प्रवृत्तियां और कवि (छायावाद, प्रगतिवाद, प्रयोगवाद, नयी कविता, अकविता और समकालीन कविता)

छ) नाटक, रंगमंच, उपन्यास, कहानी, निबन्ध एवं आलोचना का संक्षिप्त इतिहास

ज) हिन्दी पत्रकारिता: साहित्यिक और सांस्कृतिक योगदान

झ) नये गद्य-रूपों का उदय: यात्रा वृत्तान्त, रिपोर्टाज, जीवनी, आत्मकथा, संस्मरण आदि का संक्षिप्त परिचय।

सहायक पुस्तकें

हिन्दी साहित्य का इतिहास	: रामचन्द्र शुक्ल
हिन्दी साहित्य का अतीत (दो खण्ड)	: विश्वनाथ प्रसाद मिश्र
हिन्दी साहित्य की भूमिका	: हजारी प्रसाद द्विवेदी
हिन्दी साहित्य का आदिकाल	: हजारी प्रसाद द्विवेदी
आधुनिक हिन्दी साहित्य का इतिहास	: बच्चन सिंह
आधुनिक साहित्य की प्रवृत्तियां	: नामवर सिंह
रीतिकाव्य की भूमिका	: नगेन्द्र
साहित्य रूप	: रामअवध द्विवेदी
भक्ति काव्य और लोक जीवन	: शिवकुमार मिश्र
हिन्दी साहित्य का इतिहास	: रामकिशोर शर्मा
हिन्दी साहित्य	: (सं०) धीरेन्द्र वर्मा
हिन्दी साहित्य का आधा इतिहास	: सुमन राजे
हिन्दी साहित्य का दूसरा इतिहास	: बच्चन सिंह

बी0ए0 तृतीय वर्ष

प्रथम प्रश्न पत्र

काव्यभाषा और हिन्दी भाषा

1. भाषा: परिभाषा, भेद, प्रकार
2. सामान्य भाषा तथा काव्य भाषा: काव्य भाषा की परिकल्पना और स्वरूप
3. आधुनिक साहित्य चिन्तन में काव्य-भाषा का स्वरूप
 - क) काव्य-भाषा का गठन और साभिप्राय-विचलन, उपचारवक्रता
 - ख) बिम्ब-विधान
 - ग) प्रतीक विधान
4. प्राचीन भारतीय आर्यभाषाएं: वैदिक तथा संस्कृत का संक्षिप्त भाषिक परिचय।
5. मध्यकालीन भारतीय आर्यभाषाओं के विकासात्मक लक्षण तथा विशेषताएं।
 - क) पालि: व्युत्पत्ति, ध्वनि एवं व्याकरणगत विशेषताएं ।
 - ख) साहित्यिक प्राकृत: प्राकृत की व्युत्पत्ति, परिनिष्ठित प्राकृत की ध्वनिगत तथा व्याकरणगत विशेषताएं ।
 - ग) अपभ्रंश: अवहट्ट की विशेषताएं ।
6. पुरानी हिन्दी की अवधारणा और उसकी विशेषताएं ।
7. हिन्दी और उसकी उपभाषाएं: हिन्दी प्रदेश, हिन्दी की उपभाषाएं: पश्चिमी हिन्दी, पूर्वी हिन्दी, राजस्थानी, बिहारी और पहाड़ी का संक्षिप्त परिचय।
8. पूर्वी और पश्चिमी हिन्दी की बोलियां, क्षेत्रीय विस्तार तथा भाषागत विशेषताएं ।
9. हिन्दी शब्द भण्डार के स्रोत।
10. मानक-हिन्दी का संक्षिप्त व्याकरण।
11. राजभाषा, राष्ट्रभाषा और सम्पर्क भाषा के रूप में हिन्दी
12. देवनागरी लिपि का इतिहास तथा विशेषताएं

निबन्ध (निम्न तीन प्रकार के विषयों पर आधारित)

क) सांस्कृतिक ख) साहित्यिक ग) सामाजिक

सहायक पुस्तकें

रामस्वरूप चतुर्वेदी	: काव्यभाषा पर तीन निबन्ध
सियाराम तिवारी	: काव्यभाषा
हरदेव बाहरी	: हिन्दी: उद्भव, विकास और रूप
धीरेन्द्र वर्मा	: ब्रजभाषा
भोला नाथ तिवारी	: हिन्दी भाषा
मलिक मुहम्मद	: राजभाषा हिन्दी
मीरा दीक्षित	: हिन्दी भाषा
किशोरी दास बाजपेयी	: हिन्दी शब्दानुशासन
किशोरी दास बाजपेयी	: ब्रजभाषा का व्याकरण
बाबूराम सक्सेना	: अवधी का विकास
भवानी दत्त उप्रेती	: हिन्दी भाषा का विकास और लिपि का स्वरूप
रामकिशोर शर्मा	: हिन्दी भाषा का विकास

बी0ए0 तृतीय वर्ष
द्वितीय प्रश्न पत्र

भारतीय एवं पाश्चात्य-काव्यशास्त्र और हिन्दी आलोचना

(क) भारतीय काव्यशास्त्र

1. काव्य की परिभाषा और स्वरूप
2. काव्यशास्त्रीय संप्रदायों का संक्षिप्त परिचय (प्राचीन से लेकर आधुनिक तक) , रस संप्रदाय, अलंकार संप्रदाय, रीति संप्रदाय, ध्वनि संप्रदाय, वक्रोक्ति संप्रदाय।
3. काव्य-गुण और काव्य-दोष

(ख) पाश्चात्य आलोचना के प्रमुख सिद्धान्त

1. अरस्तू का अनुकरण सिद्धान्त
2. लंजाइनस का उदात्त सिद्धान्त
3. क्रोचे का अभिव्यंजनावाद
4. रिचर्ड्स का मूल्य सिद्धान्त और सम्प्रेषण सिद्धान्त
5. नयी समीक्षा का सिद्धान्त

(ग) आधुनिक हिन्दी आलोचना तथा साहित्य चिंतन की नयी दिशाएं

1. हिन्दी आलोचना का आरम्भ और विकास
2. आचार्य रामचन्द्र शुक्ल की आलोचना दृष्टि
3. हजारी प्रसाद द्विवेदी की आलोचना दृष्टि
4. प्रगतिवादी समीक्षा: रामविलास शर्मा एवं नामवर सिंह
5. स्वच्छन्दतावादी समीक्षा और आचार्य नन्ददुलारे वाजपेयी
6. रसवादी एवं मनोवैज्ञानिक समीक्षा और डॉ० नगेन्द्र
7. भाषिक समीक्षा और रामस्वरूप चतुर्वेदी
8. साहित्य चिंतन की नयी दिशाएं
संरचनावाद, उत्तर-संरचनावाद, उत्तर-उपनिवेशवाद, उत्तर-आधुनिकतावाद।
9. विमर्श - दलित, स्त्री, संस्कृति, प्राच्यवाद(संक्षिप्त परिचय)
(बिन्दु 8 एवं 9 से मात्र टिप्पणी पूछी जायेगी)

सहायक पुस्तकें

डॉ० नगेन्द्र	: भारतीय काव्य-शास्त्र की भूमिका
गणेश त्र्यम्बक देशपाण्डे	: भारतीय साहित्यशास्त्र
बलदेव उपाध्याय	: संस्कृत आलोचना
शान्तिस्वरूप गुप्त	: पाश्चात्य आलोचना
योगेन्द्र प्रताप सिंह	: भारतीय एवं पाश्चात्य काव्यशास्त्र तथा आलोचना
देवेन्द्रनाथ शर्मा	: पाश्चात्य काव्यशास्त्र
डॉ० नगेन्द्र	: नई समीक्षा: नये संदर्भ
निर्मला जैन	: नई समीक्षा के प्रतिमान
रेनेवेलेक और वारेन	: साहित्य सिद्धान्त(अनू०)
सतीशचन्द्र देव (सं०)	: पाश्चात्य आलोचना की प्रवृत्तियां
सुशील कुमार डे	: संस्कृत काव्यशास्त्र का इतिहास भाग- 1 व 2 (अनू०)

बी0ए0 तृतीय वर्ष

तृतीय प्रश्न पत्र

प्रयोजनमूलक हिन्दी

(क) प्रयोजनमूलक हिन्दी की अवधारणा और उसका अनुप्रयोग

1. प्रयोजनमूलक हिन्दी का अभिप्राय और उसकी परिव्याप्ति
2. प्रयोजनमूलक हिन्दी की प्रयुक्तियां और उसके प्रयोगात्मक क्षेत्र
3. प्रयोजनमूलक हिन्दी और पारिभाषिक शब्दावली
4. कार्यालयी हिन्दी की प्रकृति और उसका मुहावरा
5. प्रशासनिक हिन्दी और उसकी शब्दावली
6. प्रशासनिक हिन्दी और उसके प्रकार
7. संक्षेपण, टिप्पण, प्रतिवेदन-लेखन एवं निबन्ध-लेखन

(ख) हिन्दी का वैज्ञानिक एवं तकनीकी रूप

1. हिन्दी की वैज्ञानिक एवं तकनीकी शब्दावली
2. हिन्दी में वैज्ञानिक एवं तकनीकी लेखन
3. हिन्दी कम्प्यूटिंग
4. हिन्दी- अनुप्रयोग में अनुवाद की भूमिका, अनुवाद की अवधारणा, महत्व और विभिन्न सिद्धान्त, हिन्दी अनप्रयोग के विविध क्षेत्र और अनुवाद, भूमंडलीकरण की परिकल्पना और अनुवाद, रोजगार के क्षेत्र और अनुवाद।

(ग) हिन्दी में मीडिया लेखन

1. जनसंचार-माध्यम: अभिप्राय, स्वरूप और विस्तार
2. जनसंचार-माध्यमों के प्रकार
3. जनसंचार-माध्यमों की भाषिक प्रकृति
4. समाचार-लेखन और हिन्दी
5. रेडियो-लेखन और हिन्दी
6. विज्ञापन-लेखन
7. संपादन: कला के सिद्धान्त
8. प्रूफ-पठन

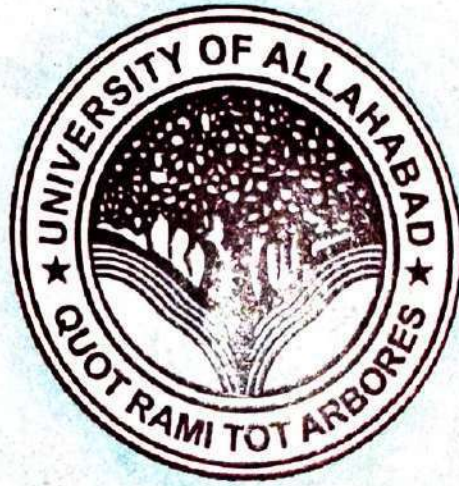
सहायक पुस्तकें

रामकिशोर शर्मा, शिवमूर्ति शर्मा	: प्रयोजनमूलक हिन्दी
कैलाश चन्द्र भाटिया	: हिन्दी का प्रयोजनमूलक स्वरूप
विजय कुलश्रेष्ठ	: प्रयोजनमूलक हिन्दी
रवीन्द्रनाथ श्रीवास्तव (सं०)	: प्रयोजनमूलक हिन्दी
गोपीनाथ श्रीवास्तव	: सरकारी कार्यालयों में हिन्दी का प्रयोग
गोपीनाथ श्रीवास्तव	: कार्यालय कार्यविधि
कैलाश चन्द्र भाटिया	: अनुवाद कला: सिद्धान्त और अनुप्रयोग
नगेंद्र	: अनुवाद विज्ञान: सिद्धान्त और अनुप्रयोग
जी० गोपीनाथन्	: अनुवाद: सिद्धान्त और प्रयोग
शिवगोपाल मिश्र	: हिन्दी विज्ञान साहित्य का सर्वेक्षण
डेविड वेनराइट	: जर्नलिज्म
जगदीश्वर चतुर्वेदी	: जनमाध्यम प्रौद्योगिकी और विचारधारा
सुधीर पचैरी, अचला शर्मा	: नये जनसंचार माध्यम और हिन्दी
ब्रूस वेस्टली	: न्यूज एडिटिंग
पुण्य प्रसून वाजपेयी	: ब्रेकिंग न्यूज
नंदकिशोर त्रिखा	: समाचार संकलन व लेखन
प्रेमनाथ चतुर्वेदी	: समाचार संपादन
हरिमोहन	: सूचना प्रौद्योगिकी और जनमाध्यम

व्याख्यान सूची

संशोधित परास्नातक पाठ्यक्रम

सत्र 2019-20/2020-21



हिन्दी परिषद प्रकाशन

हिन्दी एवं आधुनिक भारतीय भाषा विभाग

इलाहाबाद विश्वविद्यालय, इलाहाबाद

की ओर से

एकमात्र वितरक



साहित्य भंडार

50, चाहचंद (ज़ीरो रोड), इलाहाबाद - 211003

हिन्दी एवं आधुनिक भारतीय भाषा विभाग
इलाहाबाद विश्वविद्यालय, प्रयागराज

एम.ए. (हिन्दी) नया पाठ्यक्रम, सत्र 2019-20 से प्रारंभ

एम.ए. (हिन्दी) प्रथम सत्र

क्र.सं.	प्रश्न पत्र	क्रेडिट	विषय	कोड
1	प्रथम	04	प्राचीन काव्य एवं निर्गुण भक्तिकाव्य (PRACHIN KAVYA EVAM NIRGUN BHAKTIKAVYA)	HIN-511
2	द्वितीय	04	हिन्दी गद्य की विभिन्न विधाएँ (HINDI GADYA KI VIBHINN VIDHAYEN)	HIN-512
3	तृतीय	04	भारतीय काव्यशास्त्र एवं हिन्दी आलोचना (BHARTIYA KAVYASHASTRA EVAM HINDI ALOCHANA)	HIN-513
4	चतुर्थ	04	हिन्दी साहित्य का इतिहास (आरंभ से रीतिकाल तक) [(HINDI SAHITYA KA ITIHAS (ARAMBH SE RITIKAL TAK)]	HIN-514
5	पंचम	04	भारतीय साहित्य (BHARTIVA SAHITYA)	HIN-515

एम.ए. प्रथम सेमेस्टर

प्रथम प्रश्न पत्र

क्रेडिट : 04

कोड : HIN 511

प्राचीन काव्य एवं निर्गुण भक्तिकाव्य

(नरपति नाल्ह, चन्दबरदाई, विद्यापति, कबीर,
रैदास एवं जायसी : अध्ययन और अलोचना)

इकाई-1

- आदिकाल का साहित्य और रासो काव्य परम्परा
- नरपति नाल्ह और बीसलदेव रासो : व्याख्या और आलोचना

व्याख्या हेतु निर्धारित पाठ : पद

1, 3, 4, 5, 10, 27, 28, 29, 30, 31, 32, 33, 35, 36, 37, 39, 45, 48, 49,
50, 61, 65, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80,
81, 92, 94, 100 (कुल 40 पद)

बीसलदेव रासो : सम्पादक - माताप्रसाद गुप्त

- चन्दबरदाई और पृथ्वीराज रासो, व्याख्या एवं आलोचना हेतु निर्धारित पाठ : कयमास
वध : सम्पादक - हजारीप्रसाद द्विवेदी

इकाई-2

- विद्यापति : व्याख्या एवं आलोचनात्मक अध्ययन
व्याख्या हेतु निर्धारित पाठ : पद

1, 2, 7, 9, 11, 13, 17, 19, 20, 21, 23, 29, 32, 33, 41, 46, 47, 48, 49,
75 (कुल 20 पद)

निर्धारित पुस्तक : विद्यापति संचयन - सम्पादक डॉ० लालसा यादव

इकाई-3

- भक्ति साहित्य की विविध धाराएँ : संक्षिप्त परिचय एवं महत्त्वपूर्ण कवि
- हिन्दी की संत काव्य परम्परा और कबीर का साहित्य

व्याख्या हेतु निर्धारित पुस्तक : कबीर वाणी सुधा : सम्पादक डॉ० पारसनाथ तिवारी
पद संख्या- 1, 3, 4, 7, 8, 9, 12, 18, 23, 33, 34, 38, 41, 44, 47, 49, 50,
53, 59, 64 (कुल 20 पद)

साखी- सतगुरु महिमा को अंग, परचा को अंग, विरह को अंग

इकाई-4

- रैदास : व्याख्या एवं आलोचना
व्याख्या हेतु निर्धारित पाठ्य पुस्तक : रैदास की वाणी, सम्पादक योगेन्द्र सिंह
पद संख्या- 6, 7, 9, 12, 13, 14, 16, 22, 23, 27, 28, 35, 37, 38, 39, 40, 41, 43, 46, 50 (कुल 20 पद)

इकाई-5

- हिन्दी का प्रेमाख्यानक काव्य परम्परा और जायसी
जायसी का काव्य : व्याख्या एवं आलोचना
जायसी ग्रंथावली : सम्पादक रामचन्द्र शुक्ल (मानसरोदक खण्ड और संदेश खण्ड)

संदर्भ पुस्तकें :

रासो काव्य विमर्श	:	माता प्रसाद गुप्त
बीसलदेव रास	:	संपा० माता प्रसाद गुप्त
बीसलदेव रास : एक गवेषणा	:	सीताराम शास्त्री
विद्यापति	:	शिव प्रसाद सिंह
विद्यापति संचयन	:	डॉ० लालसा यादव
विद्यापति	:	आनन्द प्रकाश दीक्षित
विद्यापति का काव्य सौन्दर्य	:	डॉ० लालसा यादव
कबीर मीमांसा	:	रामचन्द्र तिवारी
कबीर	:	हजारी प्रसाद द्विवेदी
अकथ कहानी प्रेम की : कबीर	:	
की कविता और उनका समय	:	पुरुषोत्तम अग्रवाल
कबीर : साखी और सबद	:	वासुदेव सिंह
रैदास	:	संपा० योगेन्द्र प्रताप सिंह
संत रैदास	:	संपा० कँवल भारती
जायसी	:	विजयदेव नारायण साही
जायसी ग्रन्थावली	:	रामचन्द्र शुक्ल
जायसी : एक नई दृष्टि	:	रघुवंश
पृथ्वीराज रासो	:	नामवर सिंह
पृथ्वीराज रासो और रेवातर	:	विपिन बिहारी त्रिवेदी

एम.ए. प्रथम सेमेस्टर

द्वितीय प्रश्न पत्र

निबन्ध एवं कथा साहित्य

क्रेडिट : 04

कोड : HIN 502

हिन्दी गद्य की विभिन्न विधाएँ

इकाई-1

हिन्दी निबन्ध साहित्य का स्वरूप

- आधुनिक गद्य और निबन्ध
- हिन्दी निबन्ध साहित्य का इतिहास
- निबन्ध के प्रकार
- हिन्दी कहानी का विकास, कहानी क्या है ?, कहानी : स्वरूप एवं लक्षण

इकाई-2

- बाबू बालमुकुन्द गुप्त के निबंधों का आलोचनात्मक अध्ययन एवं व्याख्या
निर्धारित पाठ : (क) बनाम लार्ड कर्जन (ख) वायसराय का कर्तव्य
- कहानी : कला एवं अंतर्वस्तु, कहानी के तत्त्व

इकाई-3

- आचार्य रामचन्द्र शुक्ल के निबंधों का आलोचनात्मक अध्ययन एवं व्याख्या
निर्धारित पाठ : (क) श्रद्धा-भक्ति (ख) कविता क्या है ?
- कहानियों का आलोचनात्मक अध्ययन और व्याख्या
निर्धारित पाठ : मृतक भोज (प्रेमचंद), हिलीबोन की बत्तखें (अज्ञेय), हंसा जाई अकेला (मार्कण्डेय), डिप्टी कलेक्टरी (अमरकांत)

इकाई-4

- आचार्य हजारी प्रसाद द्विवेदी के निबंधों का आलोचनात्मक अध्ययन एवं व्याख्या
(क) प्रायश्चित की घड़ी (ख) मनुष्य ही साहित्य का लक्ष्य है
- कहानियों का आलोचनात्मक अध्ययन और व्याख्या
निर्धारित पाठ : मोहनदास (उदय प्रकाश), सलाम (ओमप्रकाश वाल्मीकि), प्रेत योनि (चित्रा मुदगल)

इकाई-5

उपन्यास

- हिन्दी उपन्यास : विकास परम्परा
- उपन्यासों का आलोचनात्मक अध्ययन एवं व्याख्या-

निर्धारित पाठ : गोदान : प्रेमचंद
फाँस : संजीव

संदर्भ पुस्तकें :

- | | |
|--------------------------------|---|
| आयन वॉट | : उपन्यास का उदय (अनु०) |
| राल्फ फॉक्स | : उपन्यास और लोकजीवन (अनु०) |
| जार्ज लुकाच | : उपन्यास के सिद्धान्त (अनु०) |
| ई०एम० फास्टर्स | : उपन्यास के पहलू (अनु०) |
| परमानन्द श्रीवास्तव | : उपन्यास का यथार्थ और रचनात्मक भाषा |
| राजेन्द्र यादव | : कहानी : शिल्प और संवेदना |
| नामवर सिंह | : कहानी : नई कहानी |
| देवीशंकर अवस्थी | : नई कहानी : संदर्भ और प्रकृति |
| बटरोही | : कहानी : रचना-प्रक्रिया और स्वरूप |
| उपेन्द्रनाथ अशक | : हिन्दी कहानी : एक अंतरंग परिचय |
| सत्यप्रकाश मिश्र (संपा०) | : गोदान |
| इन्द्रनाथ मदान (संपा०) | : गोदान, नीलाभ प्रकाशन, इलाहाबाद |
| विश्वनाथ प्रसाद तिवारी (संपा०) | : हजारी प्रसाद द्विवेदी |
| मलयज | : रामचन्द्र शुक्ल |
| शिवप्रसाद सिंह | : शांति निकेतन से शिवालिक तक |
| संजय सहाय (संपा०) | : हंस, नवम्बर, 2015 में छपी 'फाँस' की समीक्षाएँ |



एम.ए. प्रथम सेमेस्टर
तृतीय प्रश्न पत्र
भारतीय काव्यशास्त्र और हिन्दी आलोचना

क्रेडिट : 04
कोड : HIN 513

इकाई-1

- विविध सम्प्रदाय : प्रमुख आचार्य और उनके मत
(क) रस, (ख) अलंकार, (ग) रीति, (घ) वक्रोक्ति, (ङ) ध्वनि, (च) औचित्य

इकाई-2

- नाट्य सिद्धान्त
- नाट्य रचना के तत्व और प्रयोग
वस्तु, नेता, रस, अभिनय
रंग-कर्म, सामाजिक और सूत्रधार

इकाई-3

- संस्कृत काव्यशास्त्र में भाषा विवेचन :
(क) शब्द शक्तियां,
(ख) शब्दार्थ-मीमांसा- अभिहितान्वयवाद, अन्विताभिधानवाद, स्फोट, ध्वनि, वृत्तियां।

इकाई-4

छन्दशास्त्र :

- (क) छंद की अवधारणा और परिवर्तन क्रम
- (ख) हिन्दी छंद शास्त्र का विकास
- (ग) छंद के विविध आधार- लय, ताल, तुक।

इकाई-5

- हिन्दी काव्यशास्त्र :
(क) भक्तिकालीन कवियों के काव्य सिद्धान्त और भक्ति रस
(ख) रीतिकालीन आचार्यों के काव्यसिद्धान्त और मौलिक उद्भावनाएं : आत्म
सजगता, पदविन्यास, कलात्मकता।
(विशेष संदर्भ : केशव, देव, चिन्तामणि, भिखारीदास : काव्य लक्षण और कवि-शिक्षा)

संदर्भ पुस्तकें :

गणेश त्रयम्बक देशपाण्डे	:	साहित्यशास्त्र
कान्तिचंद पांडे	:	स्वतंत्र कलाशास्त्र (भाग-1)
सुशील कुमार डे	:	संस्कृत काव्यशास्त्र का इतिहास (2-खण्ड अनु०)
राघवन	:	शृंगार प्रकाश (अनु०)
बलदेव उपाध्याय	:	संस्कृत आलोचना
एम० हिरियना	:	कला अनुभव
राममूर्ति त्रिपाठी	:	भारतीय काव्यशास्त्र के नये क्षितिज
हजारीप्रसाद द्विवेदी	:	नाट्यशास्त्र की भारतीय परंपरा और दशरूपक
डॉ० नगेन्द्र	:	रस सिद्धान्त
रामचन्द्र शुक्ल	:	रस मीमांसा
योगेन्द्र प्रताप सिंह	:	भारतीय काव्यशास्त्र
योगेन्द्र प्रताप सिंह	:	हिन्दी काव्यशास्त्र के मूलाधार
प्रेमकान्त टण्डन	:	साधारणीकरण और सौन्दर्यानुभूति
केशवदास	:	कविप्रिया
भिखारीदास	:	काव्यनिर्णय
देवदत्त कौशिक	:	संस्कृत काव्यशास्त्र में व्यावहारिक समीक्षा
अज्ञेय, संपा०	:	समकालीन कविता में छंद
योगेन्द्र प्रताप सिंह	:	हिन्दी वैष्णव भक्ति काव्य में निहित
किशोरीलाल	:	काव्यादर्श एवं काव्यशास्त्रीय सिद्धान्त
सत्यप्रकाश मिश्र	:	रीतिकालीन कवियों की मौलिक देन
निशा अग्रवाल	:	कवि-शिक्षा की परंपरा और हिन्दी रीति साहित्य
पुत्तूलाल शुक्ल	:	सृजनशीलता और सौन्दर्य बोध
	:	आधुनिक हिन्दी कविता में छंद योजना

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चतुर्थ प्रश्न पत्र

हिन्दी साहित्य का इतिहास : आरम्भ से रीतिकाल तक

क्रेडिट : 04

कोड : HIN 504

इकाई-1

साहित्येतिहास दर्शन :

- (क) इतिहास क्या है ? (ख) साहित्य का इतिहास लेखन- दर्शन, दृष्टि और विचारधारा
- हिन्दी-साहित्य : अंतरंग व बहिरंग साक्ष्य, उसकी प्रामाणिकता एवं नवीनीकरण
- काल-विभाजन के आधार तथा नामकरण की समस्या

इकाई-2

आदिकाल :

- हिन्दी साहित्य का आरम्भ
- आदिकालीन हिन्दी साहित्य की प्रमुख धाराएँ
- आदिकालीन हिन्दी साहित्य का सांस्कृतिक, वैचारिक एवं लोकतात्त्विक आधार।
- प्रमुख रचनाकार एवं रचनात्मक प्रवृत्तियाँ

इकाई-3

भक्तिकाल :

- भक्ति आंदोलन का उदय : सांस्कृतिक, दार्शनिक एवं समाजशास्त्रीय पृष्ठभूमि
- भक्तिकाल- लोक जागरण एवं सांस्कृतिक समन्वय
- निर्गुण भक्ति काव्य- संत एवं सूफी काव्य
- भारतीय लोकजीवन और संत कवियों की परंपरा
- संत कवियों की निर्गुण भक्ति
- प्रमुख संत कवियों के संदर्भ में संत मत का सांस्कृतिक और साहित्यिक मूल्यांकन
- प्रेमाख्यानक काव्य
 - (क) भारतीय प्रेमाख्यानक काव्य और उसकी परंपरा
 - (ख) निर्गुण-भक्ति और सूफी साधना-पद्धति का अन्तर्सम्बन्ध
 - (ग) प्रेमाख्यानक काव्य के प्रमुख कवि और काव्य प्रवृत्तियाँ

इकाई-4

सगुण भक्ति-काव्य (कृष्णभक्ति काव्य तथा रामभक्ति काव्य)

- कृष्ण भक्तिकाव्य के प्रमुख प्रेरणा स्रोत

- अष्टछाप और उसके प्रमुख कवि
- सम्प्रदाय-मुक्त कृष्ण भक्ति धारा के कवि और काव्य : मीरा और रसखान
- कृष्ण-भक्तिकाव्य का सांस्कृतिक और साहित्यिक मूल्यांकन
- रामभक्तिधारा : स्रोत और परंपरा
- रामभक्ति काव्य-धारा के प्रमुख कवि और काव्य
- तुलसीदास और उनका काव्य
- रामभक्ति धारा : सांस्कृतिक और साहित्यिक मूल्यांकन

इकाई-5

उत्तर-भक्तिकाल और रीतिकाल का अन्तर्सम्बन्ध

- रीतिकाल का शास्त्रीय आधार और प्रेरक तत्व
- रीतिकालीन कविता की विविध धाराएँ- रीतिबद्ध, रीतिसिद्ध और रीतिमुक्त धारा के प्रमुख कवि और काव्य
- रीतिकाल की अन्य प्रवृत्तियाँ वीर, नीति, भक्ति और अन्य प्रवृत्तियाँ
- रीतिमुक्त एवं स्वच्छंदतावादी काव्यधारा
(क) वैयक्तिकता (ख) सामाजिक यथार्थोन्मुखता (ग) विद्रोही वृत्ति (घ) भाषिक सजगता
- रीतिकालीन कविता के मूल्यांकन का नया परिप्रेक्ष्य

संदर्भ पुस्तकें :

हिन्दी साहित्य का इतिहास	:	रामचंद्र शुक्ल
हिन्दी साहित्य का आदिकाल	:	हजारी प्रसाद द्विवेदी
हिंदी साहित्य का अतीत (खण्ड 2)	:	विश्वनाथ प्रसाद मिश्र
हिंदी साहित्य और संवेदना का विकास	:	रामस्वरूप चतुर्वेदी
हिन्दी साहित्य का इतिहास (सं०)	:	नगेन्द्र
हिन्दी साहित्य का समग्र इतिहास	:	रामकिशोर शर्मा
भक्ति साहित्य का इतिहास	:	प्रेमशंकर
भक्ति आंदोलन और भक्ति काव्य	:	कुंवरपाल सिंह
उत्तरी भारत की संत परंपरा	:	पीताम्बर दत्त बड़धवाल
ह्वाट इज हिस्ट्री	:	ई०एच० कार
ए टेक्टबुक आफ हिस्टिरियोग्राफी	:	ई० श्रीधरन
हिस्ट्री एण्ड हिस्टोरियन्स	:	ए हिस्टरियोग्राफिकल
इंट्रोडक्शन	:	मार्क टी० गिल्डहर्स
साहित्य और इतिहास दृष्टि	:	मैनेजर पाण्डेय
साहित्येतिहास दर्शन और हिंदी साहित्य की ऐतिहासिक प्रक्रिया	:	हरिश्चंद्र मिश्र

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पंचम प्रश्न पत्र

भारतीय साहित्य

क्रेडिट : 04

कोड : HIN 515

इकाई-1

- भारतीय साहित्य का स्वरूप, भारतीय साहित्य के अध्ययन की समस्याएँ, भारतीय साहित्य : आज के भारत का बिम्ब

इकाई-2

- भारतीय साहित्य का संक्षिप्त परिचय (बंगला, असमी, उड़िया, पंजाबी, मराठी, गुजराती, तमिल, तेलुगू, मलयालम)
- हिन्दी साहित्य में भारतीय मूल्यों की अभिव्यक्ति

इकाई-3

- चयनित कविताओं की व्याख्या और आलोचना
(क) सबसे खतरनाक, मैं अब विदा लेता हूँ : अवतार सिंह 'पाश' (पंजाबी)
(ख) बनलता सेन : जीवनानंद दास (बांग्ला)
(ग) धनबाद का खनिक, हकलाहट : के० सच्चिदानंदन (मलयालम)

इकाई-4

- चयनित उपन्यास और कहानियों की व्याख्या और आलोचना
(क) संस्कार (कन्नड़) : यू०आर० अनंतमूर्ति
(ख) आवारागर्द (उर्दू) : कुरतुल ऐन हैदर
(ग) साहब, दीदी और गुलाम (मराठी) दया पवार

इकाई-5

- चयनित नाटक और निबन्ध की व्याख्या और आलोचना
(क) नाटक : घासीराम (मराठी) विजय तेंदुलकर
(ख) निबन्ध : क्या साहित्य विफल है? (उर्दू) आले अहमद सुरूर
आत्मकथा, जीवनी और संस्मरण (हिन्दी) अज्ञेय

संदर्भ पुस्तकें :

डॉ. नगेन्द्र (सं.)	:	भारतीय साहित्य
इन्द्रनाथ चौधरी	:	भारतीय साहित्य की प्रवृत्तियाँ
लक्ष्मीकान्त पाण्डेय	:	भारतीय साहित्य
सुकुमार सेन	:	बंगला साहित्य का इतिहास
कल्याणी दास	:	बंगला साहित्य का इतिहास
अरुण कुमार	:	चयनम्

एम.ए. (हिन्दी) द्वितीय सत्र

क्र.सं.	प्रश्न पत्र	क्रेडिट	विषय	कोड
1	छठा	04	सगुण भक्तिकाव्य एवं रीतिकाव्य (SAGUN BHAKTIKAVYA EVAM RITIKAVYA)	HIN-516
2	सातवाँ	04	नाटक, रंगमंच एवं अन्य गद्य विधाएँ (NATAK, RANGMANCH EVAM ANYA GADYA VIDHAYEN)	HIN-517
3	आठवाँ	04	पाश्चात्य समीक्षा सिद्धांत (PASHCHATYA SAMIKSHA SIDDHANT)	HIN-518
4	नौवाँ	04	हिन्दी साहित्य का इतिहास (आधुनिक काल) [(HINDI SAHITYA KA ITIHAS (ADHUNIK KAL)]	HIN-519

एम.ए. द्वितीय सेमेस्टर

छठा प्रश्न पत्र

सगुण भक्ति

क्रेडिट : 04

कोड : HIN 506

काव्य एवं रीतिकाव्य

(सूरदास, मीराबाई, तुलसीदास, केशवदास, बिहारी, घनानंद)

इकाई-1

सूरदास : व्याख्या और आलोचनात्मक अध्ययन

- कृष्ण काव्य की परम्परा
- हिन्दी कृष्ण काव्य की सामान्य प्रकृति एवं प्रवृत्तियां
- कृष्णकाव्य परंपरा और सूरदास
- रीतिकालीन काव्य : परिवेश एवं पृष्ठभूमि
- रीतिकालीन कविता का मुख्य प्रतिपाद्य
- रीतिकालीन कविता- शुद्ध साहित्य की खोज

इकाई-2

- सूरदास और उनका काव्य : जीवनानुभूति और अभिव्यक्ति विधान
- निर्धारित पाठ्य पुस्तक : 'भ्रमरगीत सार' (संपा0) रामचन्द्र शुक्ल
पद संख्या- 11, 13, 19, 23, 28, 29, 50, 70, 82, 88, 92, 97, 104, 106,
114, 121, 128, 144, 146, 163 (20 छंद)
- केशवदास : व्याख्या और आलोचनात्मक अध्ययन
- रीति परम्परा : प्रवर्तन और विकास
- केशव काव्य की मुख्य विशेषताएं
- निर्धारित पुस्तक : रामचंद्रिका (प्रकाश 9 एवं 10)

इकाई-3

- मीराबाई : व्याख्या और आलोचनात्मक अध्ययन
(क) गीतिकाव्य परंपरा और भक्तिकालीन हिंदी कविता
(ख) कृष्णकाव्य में गीति भावना और उसकी विशेषताएं
(ग) मीरा और उनका काव्य : जीवनानुभूति और अभिव्यक्ति विधान
- निर्धारित पाठ्य पुस्तक : 'मीरा की पदावली' (खण्ड-2)- संपा0- परशुराम चतुर्वेदी
पद संख्या- 3, 5, 7, 10, 14, 18, 19, 24, 25, 31, 32, 34, 36, 38, 44, 46,
48, 51, 66, 74 (20 पद)

- बिहारी : व्याख्या और आलोचनात्मक अध्ययन
- बिहारी : शृंगार का वैभव
- काव्य कला और अभिव्यक्ति विधान
- निर्धारित पाठ्य पुस्तक : बिहारी सतसई (संपा0) जगन्नाथ दास रत्नाकर (आरम्भिक 60 दोहे)

इकाई-4

- तुलसीदास : व्याख्या और आलोचनात्मक अध्ययन
 - (क) रामकथा और राम काव्य परम्परा
 - (ख) राम काव्य में प्रबंध और गीति तत्व
 - (ग) तुलसीदास और उनका काव्य : जीवनानुभूति और अभिव्यक्ति विधान
 - (घ) रामकाव्य और कृष्णकाव्य के रचना विधान का तुलनात्मक अध्ययन
- निर्धारित पाठ्य पुस्तक : उत्तरकाण्ड (रामचरितमानस) दोहा सं. 75 से अंत तक।

इकाई-5

- घनानंद : व्याख्या और आलोचना : रीति स्वच्छंद काव्य धारा और घनानंद
- निर्धारित पाठ्य पुस्तक : घनानंद कवित्त- (संपा0) विश्वनाथ प्रसाद मिश्र
1, 2, 3, 5, 7, 16, 17, 20, 29, 32, 50, 53, 57, 59, 63, 66, 70, 82, 83, 87 (20 छंद, कवित्त एवं सवैया)

संदर्भ पुस्तकें :

भ्रमरगीत सार की भूमिका (त्रिवेणी)	:	रामचन्द्र शुक्ल
सूरदास	:	ब्रजेश्वर वर्मा
तुलसीदास	:	माताप्रसाद गुप्त
मीरा की भक्ति और उनकी काव्य	:	
साधना का अनुशीलन	:	भगवानदास तिवारी
मीरा का काव्य	:	विश्वनाथ त्रिपाठी
बिहारी की वाग्विभूति	:	विश्वनाथ प्रसाद मिश्र
स्वच्छन्द काव्यधारा और घनानंद	:	मनोहरलाल गौड़
केशव की काव्यकला	:	कृष्ण कुमार शुक्ल
केशव का काव्य	:	विजयपाल सिंह
तुलसी आधुनिक वातायन से	:	रमेश कुंतल मेघ
रामकथा का पुनर्पाठ	:	विनोद शाही
पंचरंग चोला पहिर सखी रे	:	माधव हाड़ा
हिन्दी नवरत्न	:	मिश्र बंधु
मीराबाई और भक्ति की आध्यात्मिक अर्थनीति	:	कुंमकुम संगारी
भक्ति आंदोलन और काव्य	:	गोपेश्वर सिंह

एम.ए. द्वितीय सेमेस्टर

7वाँ प्रश्न पत्र

नाटक, रंगमंच एवं अन्य गद्य विधाएँ

क्रेडिट : 04

कोड : HIN 507

इकाई-1

- हिन्दी नाटक : उद्भव और विकास
- हिन्दी नाटक : आधुनिकता और पाश्चात्य प्रभाव
- भारतेन्दु का नाट्य चिंतन
- जयशंकर प्रसाद का नाट्य चिंतन और ध्रुवस्वामिनी
- हिन्दी में संस्मरण लेखन की परंपरा और 'याद हो कि ना याद हो' (काशीनाथ सिंह) के चयनित पाठों का समीक्षात्मक मूल्यांकन (दंत कथाओं में त्रिलोचन, होल्कर हाउस में हजारीप्रसाद द्विवेदी, जी ही जाने है आहु मत पूछो, किस्सा साढ़े चार यार)

इकाई-2

- नाटक और रंगमंच का अंतर्सम्बन्ध
- नाटक और रंगमंच के तत्व और शैलियाँ
- स्वातंत्र्योत्तर रंग दृष्टि और मोहन राकेश : आषाढ़ का एक दिन
- अज्ञेय के यात्रा वृत्तांत 'एक बूंद सहसा उछली' के चयनित पाठों का समीक्षात्मक मूल्यांकन (यूरोप की अमरावती, रोम विद्रोह की परंपरा में, यूरोप की पुष्पावती- फिरेंगे, एक यूरोपीय चिंतक से भेंट, तो यार पेरिस है)

इकाई-3

- आत्मकथा लेखन की परंपरा
- हरिवंश राय बच्चन की आत्मकथा- 'क्या भूलूँ क्या याद करूँ' का समीक्षात्मक मूल्यांकन
- धर्मवीर भारती का 'अंधा युग' समकालीन समय की व्यथा कथा मिथक/इतिहास के माध्यम से

इकाई-4

- नाटक तथा एकांकी में अंतर
- एकांकी के तत्व

इकाई-5

- निम्नलिखित रचनाओं का आलोचनात्मक मूल्यांकन एवं व्याख्या

(क) औरंगजेब की आखिरी रात - रामकुमार वर्मा

(ख) ऊसर - भुवनेश्वर

(ग) अपना-अपना जूता - लक्ष्मीकान्त वर्मा

संदर्भ पुस्तकें :

बच्चन सिंह	:	हिंदी नाटक
दशरथ ओझा	:	हिन्दी नाटक : उद्भव और विकास
गोविन्द चातक	:	प्रसाद के नाटक स्वरूप और संरचना
गिरीश रस्तोगी	:	मोहन राकेश और उनके नाटक
राजकुमार वर्मा	:	एकांकी कला
सिद्धनाथ कुमार	:	प्रसाद के नाटक
हरिमोहन	:	साहित्यिक विधाएं : पुनर्विचार
कमलेश सिंह	:	हिन्दी आत्मकथा स्वरूप एवं साहित्य
रामस्वरूप चतुर्वेदी	:	अज्ञेय और आधुनिक रचना की समस्या
संपादक- पल्लव	:	गल्प का ठाठ काशीनाथ सिंह
महेश आनंद	:	जयशंकर प्रसाद (दो खण्ड)
नेमिचन्द्र जैन	:	रंग दर्शन
नेमिचन्द्र जैन	:	आधुनिक हिन्दी रंगमंच
सुनील विक्रम सिंह	:	हिन्दी साहित्य गद्य सर्जना

एम.ए. द्वितीय सेमेस्टर

8वाँ प्रश्न पत्र

पाश्चात्य समीक्षा सिद्धान्त

क्रेडिट : 04

कोड : HIN 518

इकाई-1

- आलोचना तथा आलोचक, प्रकृति और उद्देश्य, सर्जनात्मक साहित्य में उसका स्थान
- पाश्चात्य साहित्यालोचन के इतिहास की रूपरेखा

इकाई-2

- यूनानी काव्यशास्त्र और उसमें प्लेटो एवं अरस्तू की स्थिति और उनके सिद्धान्त : विवेचन, अनुकरण, ट्रेजिडी तथा लिरिक महाकाव्य
- रोमीय एवं मध्ययुगीन काव्यशास्त्र

इकाई-3

- पुनर्जागरण एवं नवशास्त्रवादी युग- शाश्वत एवं अपरिवर्तनीय प्रतिमानों की मांग, निर्णयात्मक आलोचना की प्रगति।
- स्वछंदतावादी युग के प्रतिमान, दर्शन तथा पृष्ठभूमि, कॉलरिज एवं वड्सवर्थ विवाद, जर्मनी तथा इंग्लैण्ड में स्वच्छन्दतावादी आलोचना की स्थिति

इकाई-4

- क्रोचे की सौन्दर्य दृष्टि एवं आलोचना, अभिव्यंजनावाद।
- आधुनिक युग में आलोचना की स्थिति तथा नई समीक्षा - टी0एस0 इलियट, जॉन क्रो रैसम तथा आई0ए0 रिचर्ड्स का योगदान।

इकाई-5

- विशिष्ट समकालीन आलोचक तथा उनके सिद्धान्त - रोलाबार्थ, देरिदा - संरचना, पाठ और विच्छेदन।

संदर्भ पुस्तकें :

लीलाधर गुप्त
रेनेवेलेक
शम्भूनाथ झा

- : पाश्चात्य साहित्यालोचन के सिद्धान्त (अनु0)
- : साहित्य सिद्धान्त (अनु0)
- : रिचर्ड्स के आलोचना सिद्धान्त

रामदरश मिश्र	:	हिन्दी समीक्षा : स्वरूप और संदर्भ
अरस्तू	:	पोयटिक्स (संपा.- डॉ. नगेन्द्र)
प्रभा खेतान	:	शब्दों का मसीहा- सार्त्र
माक्स एंगेल्स	:	साहित्य के बारे में (प्रगति प्रकाशन)
सुधीश पचौरी	:	देरिदा का विच्छेदन सिद्धान्त और साहित्य
इलियट	:	दि यूज ऑव पोयट्री एण्ड यूज ऑव क्रिटिसिज्म
जड़ाऊलाल मेहता	:	हाइडेगर
क्रोचे	:	एस्थेटिक्स
शिवमूर्ति पाण्डे	:	टी0एस0 इलियट के आलोचना सिद्धान्त
राबर्ट पेनवारेन एवं	:	
क्लीथ बुक्स	:	अण्डरस्टैंडिंग पोयट्री
तारकनाथ बाली	:	पाश्चात्य काव्यशास्त्र
सावित्री सिन्हा (संपा0)	:	पाश्चात्य काव्यशास्त्र की परम्परा
गोपीचंद नारंग	:	उत्तर संरचनावाद, संरचनावाद एवं प्राच्यवाद

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9वाँ प्रश्न पत्र

हिन्दी साहित्य का इतिहास (आधुनिक काल)

क्रेडिट : 04

कोड : HIN 519

इकाई-1

- आधुनिकता का अर्थ, मध्ययुगीनता तथा आधुनिकता का अन्तर
- भारतीय नवजागरण और हिन्दी क्षेत्र का नवजागरण
- आधुनिक काल- गद्यकाल, आधुनिक काल की प्रेरक विचारधाराएं
- आधुनिक काल के उदय की पृष्ठभूमि

इकाई-2

- आधुनिक हिन्दी कविता (1850 से अद्यतन)
- खड़ी बोली काव्य का विकास : प्रारम्भिक काल : भारतेन्दु और द्विवेदी युगीन कविता (ब्रज भाषा तथा खड़ीबोली के संदर्भ में)
- छायावाद : आन्दोलन तथा उसके प्रमुख कवि
- प्रगतिवादी काव्य
- प्रयोगवाद और नई कविता
- समकालीन हिन्दी कविता की विशेषताएं

इकाई-3

- हिन्दी गद्य का उद्भव एवं विकास
- गद्य निर्माण प्रक्रिया तथा भारतेन्दु : हिन्दी की विविध विधाओं का विकास
- महावीर प्रसाद द्विवेदी और उनका युग
- हिन्दी पत्रकारिता का साहित्य के विकास में योगदान

इकाई-4

- हिन्दी नाटक और रंगमंच का स्वरूप और विकास
- हिन्दी आलोचना का आरम्भ और विकास
- हिन्दी कथा साहित्य के विकास के विविध चरण
- (क) कहानी विधा का विकास : विभिन्न कहानी आन्दोलनों की संक्षिप्त रूपरेखा
- (ख) उपन्यास का विकास तथा सामाजिक यथार्थ से उसका सम्बंध

इकाई-5

- हिन्दी के अन्य गद्य रूपों का विकास : संस्मरण, जीवनी, आत्मकथा, यात्रा, रेखाचित्र, रिपोर्ताज, गद्यकाव्य आदि

● समकालीन विमर्श

संदर्भ पुस्तकें :

क्रिस्टोफर किंग	:	वन लैंग्वेज टू स्किप्स
मैक ग्रेकर	:	हिस्ट्री ऑफ लिट्रेचर
सुमन राजे	:	हिन्दी साहित्य का आधा इतिहास
रामस्वरूप चतुर्वेदी	:	हिन्दी गद्य : विकास और विन्यास
रामचन्द्र तिवारी	:	हिन्दी का गद्य साहित्य
लक्ष्मीसागर वाष्णेय	:	आधुनिक हिन्दी साहित्य की भूमिका (1757-1857 ई०)
लक्ष्मीसागर वाष्णेय	:	आधुनिक साहित्य (1857-1900 ई०)
श्रीकृष्ण लाल	:	आधुनिक हिन्दी साहित्य का इतिहास (1900-1925 ई०)
रामकिशोर शर्मा	:	हिन्दी साहित्य का समग्र इतिहास
बच्चन सिंह	:	आधुनिक साहित्य का इतिहास
बच्चन सिंह	:	हिन्दी साहित्य का दूसरा इतिहास
नामवर सिंह	:	आधुनिक साहित्य की प्रवृत्तियां
नामवर सिंह	:	छायावाद

एम.ए. द्वितीय सेमेस्टर

10वीं प्रश्न पत्र

लोक साहित्य

क्रेडिट : 04

कोड : HIN 520

इकाई-1

- लोक : प्राचीन और आधुनिक अवधारणा
- लोकवृत्त : परिभाषा और क्षेत्र
- लोकवार्ता के सहयोग शास्त्र-नृविज्ञान, मिथक, पुरातत्व और इतिहास, समाजशास्त्र, लोकवार्ता और लोक साहित्य
- लोक साहित्य में लोक संस्कृति की अभिव्यक्ति
- लोक साहित्य एवं शिष्ट साहित्य में अन्तर और अन्तर्सम्बन्ध
- लोक साहित्य का राष्ट्रीय जीवन के पुनर्निर्माण में महत्त्व

इकाई-2

- हिन्दी की जनपदीय बोलियों में लोक साहित्य के अध्ययन का इतिहास
- लोक साहित्य : परिभाषा, विशेषताएं, लोक साहित्य और लोक मानस
- लोक साहित्य का वर्गीकरण
 - (क) प्रमुख रूप- लोकगीत, लोकगाथा, लोककथा, लोक नाटक
 - (ख) गौण रूप- लोकोक्तियाँ, मुहावरें, पहेलियाँ

इकाई-3

- लोकगीत : परिभाषा और लक्षण, लोकगीतों का काव्य सौन्दर्य-रस, अलंकार, बिम्ब, भाषा, प्रतीक, छन्द और लय
- लोकगीतों का वर्गीकरण- लोकगीतों के विभिन्न रूपों का परिचय
- लोकगाथा : परिभाषा और लक्षण, लोकगाथा और लोकगीतों में अंतर, लोक गाथाओं की उत्पत्ति के सिद्धांत, प्रमुख लोकगाथाओं का परिचय- लोरिकायन, चन्दायन, आल्हा

इकाई-4

- लोक कथा : परिभाषा और लक्षण, लोक कथाओं का वर्गीकरण, लोक कथाओं से सम्बद्ध पारिभाषिक शब्दावली, कथाभिप्राय, कथामानक रूप, मिथक, परीकथाएँ, अवदान, पशुपक्षी कथाएं
- लोक नाटक : परिभाषा और लक्षण, लोकनाटक और शिष्ट नाटक, हिन्दी की जनपदीय बोलियों के प्रमुख लोकनाटकों का संक्षिप्त परिचय

इकाई-5

● लोकोक्ति, मुहावरे, पहेलियां : परिभाषा, विशेषताएँ, महत्त्व, वर्गीकरण
निर्धारित पाठ/रचनाएँ

अवधी

- क. बिटउनी- भलभद्र प्रसाद दीक्षित 'पढ़ीस'
- ख. राम मड़ैया- बंशीधर शुक्ल
- ग. धरती के पिया- विश्वनाथ सिंह 'विकल गोंडवी'
- घ. धरती हमार- चन्द्रभूषण त्रिवेदी 'रमई काका'

भोजपुरी

- क. नाव मंत्री के, अब रहींला हम- बेढब 'बनारसी'
- ख. कौंची अमिया न तुरिह- विद्यानिवास मिश्र
- ग. कवने खोतवा में लुकइलू- भोलानाथ 'गहमरी'
- घ. गीत गावे अंगना- विश्वरंजन

ब्रज

- क. रूप-सुधा- जगदीश गुप्त
- ख. तीन मुक्तक- गयाप्रसाद शुक्ल 'सनेही'
- ग. श्याम-छवि- करुणा शंकर शुक्ल 'करुणेश'
- घ. रसवन्त कवित्तन की रितु आई- बैजनाथ गुप्त 'बृजेन्द्र'

उत्तीसगढ़ी

- क. अमरइया में- भगवती सेन
- ख. ढरका दिन बादर के दुहना- रमेश अहीर

कुमाऊँनी

- क. कुन्धी- देवकी मेहरा
- ख. उकाव हुलार- रमेश चन्द्र शाह

कहानियाँ

- क. ठउर ठिकाना- बिंदादीन
- ख. बड़की माई- जयसिंह 'व्यथित'
- ग. भैरो के माई- विद्या बिन्दु सिंह

भोजपुरी

- क. डुगडुगी- रामदेव शुक्ल
- ख. पिल्ला- विश्वनाथ प्रसाद तिवारी
- ग. मुट्टन काका के एकका के सवारी- रामेश्वरनाथ तिवारी

लोकगीत

अवधी-कजरी, दोना, सुहाग, भाँवर।

एम.ए. (हिन्दी) तृतीय सत्र

क्र.सं.	प्रश्न पत्र	क्रेडिट	विषय	कोड
1	11वाँ	04	आधुनिक काव्य (20वीं शताब्दी के आरंभ से छायावाद तक) ADHUNIK KAVYA (20VEEN SHATABDI KE ARAMVBH SE CHHAYAVAD TAK)	HIN-521
2	12वाँ	04	कबीर (KABIR)	HIN-551
		04	जायसी (JAYASI)	HIN-552
		04	सूरदास (SURDAS)	HIN-553
		04	तुलसीदास (TULSIDAS)	HIN-554
		04	केशवदास (KESHAVDAS)	HIN-555
		04	प्रसाद (PRASAD)	HIN-556
		04	निराला (NIRALA)	HIN-557
		04	अज्ञेय (AGYEY)	HIN-568
		04	मुक्तिबोध (MUKTIBODH)	HIN-559
		04	भारतेन्दु हरिश्चंद्र (BHARTENDU HARISHCHANDRA)	HIN-560
		04	प्रेमचंद (PREMCHAND)	HIN-561
		04	रामचंद्र शुक्ल (RAMCHANDRA SHUKAL)	HIN-562
3	13वाँ	04	हिन्दी पत्रकारिता (HINDI PATRAKARITA)	HIN-563
	(वैकल्पिक)	04	प्रयोजनमूलक हिन्दी (PRAYOJANMULAK HINDI)	HIN-564
		04	भारतीय प्रवासी एवं विस्थापित समाज (डायस्पोरा) का साहित्य [BHARTIYA PRAVASI EVAM VISTHAPIT SAMAJ (DIASPORA) KA SAHITYA]	HIN-565
4	14वाँ	04	भाषा विज्ञान और हिन्दी भाषा (इतिहास एवं सिद्धांत) [BHASHA VIGYAN AUR HINDI BHASHA (ITIHAS EVAM SIDDHANT)]	HIN-522
5	15वाँ	04	निबंध : साहित्यिक एवं साहित्येत्तर (NIBANDH : SAHITYIK EVAM SAHITYETTAR)	HIN-523

एम.ए. तृतीय सेमेस्टर
11वाँ प्रश्न पत्र
आधुनिक काव्य
(20वीं शताब्दी के आरम्भ से छायावाद तक)

क्रेडिट : 04

कोड : HIN 601

इकाई-1

आधुनिक हिन्दी कविता की पृष्ठभूमि और नए संदर्भ

- हिन्दी कविता का नया युग : युगीन भावना, चिन्तन, विषय वस्तु, भाषा, काव्य-रूप, शैली-शिल्प
- आधुनिक युग की रचनात्मक चुनौतियाँ और हिन्दी का आख्यानमूलक काव्य
- मैथिलीशरण गुप्त की काव्य-यात्रा और 'साकेत'
- रामकाव्य-परम्परा और साकेत (केवल आलोचनात्मक अध्ययन) राष्ट्रीय चेतना, युगीन आदर्श, नारी भावना और काव्यत्व

इकाई-2

छायावादी काव्यांदोलन : उद्भव एवं विकास, नवीन रचना-दृष्टि और सौन्दर्य भावना

- जयशंकर प्रसाद की काव्य-यात्रा और 'कामायनी'
- कामायनी : प्रेरणा, कल्पना, विषयवस्तु, जीवन-दर्शन युगीन संदर्भ, महाकाव्यत्व, आलोचना-प्रक्रिया
- कामायनी : श्रद्धा-सर्ग और इड़ा-सर्ग (व्याख्या और आलोचना)

इकाई-3

- निराला और छायावाद, काव्य-यात्रा, निर्दिष्ट (व्याख्या और आलोचना)- सरोज-स्मृति और राम की शक्ति-पूजा (राग विराग, सम्पादक डॉ० रामविलास शर्मा)

इकाई-4

पंथ की काव्य यात्रा के विविध सोपान

- व्याख्या और आलोचना हेतु पंथ की निर्दिष्ट कविताएं : प्रथम रश्मि, परिवर्तन, ग्रामश्री (आधुनिक कवि : पंथ, हिन्दी साहित्य सम्मेलन, प्रयाग)

इकाई-5

छायावाद और महादेवी

- छायावादी काव्य में रहस्य भावना और महादेवी वर्मा

- महादेवी के काव्य में स्वाधीन चेतना और गीति काव्य तत्व
- महादेवी की निर्दिष्ट कविताएँ (व्याख्या और आलोचना) (1) यह मंदिर का दीप (2) शलभ मैं शापमय वर हूँ (3) मैं नीर भरी दुःख की बदली (4) फिर विकल है प्राण मेरे (5) कीर का प्रिय आज पिंजर खोल दो (संधिनी : महोदवी वर्मा)

संदर्भ पुस्तकें

मोहन अवस्थी	:	आधुनिक काव्य शिल्प
उमाकांत गोयल	:	मैथिलीशरण गुप्त
शशि अग्रवाल	:	मैथिलीशरण गुप्त के काव्य की अंतर्कथाओं के मुख्य स्रोत
प्रेमशंकर	:	प्रसाद का काव्य
दूधनाथ सिंह	:	निराला : आत्महंता आस्था
नामवर सिंह	:	छायावाद
नामवर सिंह	:	आधुनिक साहित्य की प्रवृत्तियाँ
कुमार विमल	:	महादेवी का काव्य-सौष्ठव
रमेशचन्द्र शाह	:	जयशंकर प्रसाद
प्रभाकर श्रोत्रिय	:	जयशंकर प्रसाद की प्रासंगिकता
परमानंद श्रीवास्तव (संपा०)	:	महादेवी
शम्भुनाथ	:	मिथक और आधुनिक कविता
शिवकुमार मिश्र	:	आधुनिक कविता और युग संदर्भ
रामस्वरूप चतुर्वेदी	:	आधुनिक कविता-यात्रा
डॉ० नगेन्द्र	:	साकेत : एक अध्ययन
निर्मला अग्रवाल	:	खड़ी बोली काव्य : ऐतिहासिक संदर्भ और मूल्यांकन
पत्रिकाएँ :		
बहुवचन, आलोचना, तद्भव, प्रतिमान, पहल		

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(कवि/लेखक का विशेष अध्ययन)

कबीर

क्रेडिट : 04

कोड : HIN 551

इकाई-1

- भक्ति आन्दोलन और कबीर
- कबीर का जीवन-वृत्त : मिथक एवं ऐतिहासिकता

इकाई : 2

- कबीर की रचनाओं की विभिन्न पाठ-परम्पराएँ और उनकी प्रामाणिकता
- कबीर की कृतियों का आलोचनात्मक अध्ययन

इकाई : 3

- कबीर ग्रंथावली के चयनित 60 पद :
पद- 1, 2, 4, 5, 6, 7, 10, 11, 13, 14, 15, 16, 17, 18, 19, 23, 25, 27,
28, 29, 31, 32, 34, 36, 37, 39, 41, 43, 50, 54, 56, 61, 66, 67, 68,
70, 83, 87, 102, 107, 108, 114, 120, 124, 126, 127, 128, 131, 145,
161, 162, 163, 167, 170, 174, 178, 191, 194, 199, 200 व 60 पद।

साखी

- क. परचा कौ अंग
 - ख. सुमिरन भजन महिमा कौ अंग
 - ग. पिउ पहिचानवे कौ अंग
- (कबीर ग्रन्थावली- (सं०) डॉ० पारसनाथ तिवारी)

इकाई : 4

- कबीर की विचारधारा : दार्शनिक, सामाजिक, धार्मिक, भक्तिपरक, साधनापरक

इकाई : 5

- कबीर का काव्य, उसकी लोकधर्मी परंपरा, भावाभिव्यक्ति की शैली तथा अन्य विशेषताएँ
- कबीर के काव्य का कलापक्ष- छंद, अलंकार, उलटबाँसी और उसका अर्थ-संधान
- कबीर की भाषा के विविध रूप : मूलाधार बोली, अभिव्यंजना पक्ष

संदर्भ पुस्तकें :

रामकुमार वर्मा	:	कबीर का रहस्यवाद
परशुराम चतुर्वेदी	:	उत्तरी भारत की संतपरम्परा
सरनाम सिंह शर्मा	:	कबीर : व्यक्तित्व, कृतित्व एवं सिद्धान्त
माताबदल जायसवाल	:	कबीर की भाषा
नजीर मुहम्मद	:	कबीर के काव्य रूप
गोविन्द त्रिगुणायत	:	कबीर की विचारधारा
रामचन्द्र तिवारी	:	कबीर मीमांसा
जयदेव सिंह (संपा०)	:	संत कवि कबीर
जयदेव सिंह	:	हिन्दी की निर्गुण काव्यधारा और कबीर
भवानीदत्त उप्रेती	:	संत कवि कबीर
रघुवंश	:	कबीर : एक नयी दृष्टि
रामकिशोर शर्मा	:	कबीर वाणी : कथ्य और शिल्प
धर्मवीर	:	कबीर के आलोचक
धर्मवीर	:	कबीर के कुछ और आलोचक
धर्मवीर	:	कबीर खसम खुशी क्यों होय ?

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(कवि/लेखक का विशेष अध्ययन)

जायसी

क्रेडिट : 04

कोड : HIN 552

इकाई-1

भक्ति आंदोलन और जायसी

- जायसी और सूफी विचारधारा
- जीवन, व्यक्तित्व एवं कृतित्व
- मध्यकालीन साहित्य का सांस्कृतिक पक्ष
- सूफी मत और जायसी

इकाई-2

जायसी की प्रेम साधना

- प्रेम भक्ति साधना और जायसी
- इस्लाम का एकेश्वरवाद और भारतीय धर्म साधना का अद्वैतवाद : रूपगत और दृष्टिगत भेद

इकाई-3

सूफी दर्शन की रहस्य साधना का पक्ष और जायसी

- रहस्यवाद की व्याख्या
- उपास्य रूपक प्रेमतत्व
- भावमूलक रहस्यवाद
- अभिव्यक्ति मूलक रहस्यवाद

इकाई-4

जायसी की काव्य कला और सौन्दर्य दृष्टि

- जायसी की काव्य भाषा
- सूफी कवियों का शिल्पगत वैशिष्ट्य और जायसी
- जायसी की सौन्दर्य दृष्टि

इकाई-5

जायसी काव्य का व्याख्या एवं आलोचना हेतु निर्धारित पाठ

पद्मावत : 1. सिंहल द्वीप वर्णन खण्ड, 2. सुआ खण्ड, 3. प्रेम खण्ड, 4. नागमती वियोग खण्ड (व्याख्या और आलोचना)

जायसी ग्रंथावली- (संपा0) आचार्य रामचन्द्र शुक्ल, नागरी प्रचारिणी सभा, काशी

संदर्भ पुस्तकें

गोविन्द त्रिगुणायत	:	कबीर और जायसी के रहस्यवाद का तुलनात्मक अध्ययन
चन्द्रबली पाण्डेय	:	तसव्वुफ अथवा सूफीमत
रामचंद्र तिवारी	:	मध्यकालीन काव्य साधना
हजारीप्रसाद द्विवेदी	:	मध्यकालीन धर्म साधना
वासुदेव शरण अग्रवाल	:	पद्मावत (मूल और संजीवनी व्याख्या)
शिवसहाय पाठक	:	पद्मावत का काव्य सौन्दर्य
इन्द्रचन्द्र नारंग	:	पद्मावत का ऐतिहासिक आधार
परशुराम चतुर्वेदी	:	भारतीय प्रेमाख्यान परंपरा
मुंशीराम शर्मा	:	भक्ति का विकास
सत्येन्द्र	:	मध्ययुगीन हिंदी साहित्य का लोकतांत्रिक अध्ययन
श्याम मनोहर पाण्डेय	:	मध्ययुगीन प्रेमाख्यान
गुलाब राय, शम्भूनाथ पाण्डेय	:	रहस्यवाद और हिंदी कविता
रामपूजन तिवारी	:	सूफीमत साधना और साहित्य
जयदेव	:	सूफी महाकवि जायसी
विमल कुमार जैन	:	सूफीमत और हिंदी साहित्य
कमल कुलश्रेष्ठ	:	हिंदी प्रेमाख्यानक काव्य
रघुवंश	:	जायसी एक नई दृष्टि
विजयदेव नारायण साही	:	जायसी

एम0ए0 तृतीय सेमेस्टर
12वाँ प्रश्न पत्र (वैकल्पिक)
(कवि/लेखक का विशेष अध्ययन)

सूरदास

क्रेडिट : 04

कोड : HIN 553

इकाई-1

भक्ति आन्दोलन और सूरदास

- (क) मध्य युग : सामाजिक अवस्था और भक्ति आंदोलन
- (ख) वैष्णव आचार्य में आचार्य बल्लभ का स्थान
- (ग) शुद्धाद्वैत दर्शन और पुष्टिमार्गीय भक्ति संप्रदाय
- (घ) वल्लभ संप्रदाय तथा अन्य कृष्ण-भक्त

इकाई-2

कृष्ण भक्ति परम्परा और सूरदास

- कृष्ण भक्ति-साहित्य की परंपरा
- अष्टछाप और सूरदास
- सूरदास का जीवन-चरित्र- अंतःसाक्ष्य और बहिर्साक्ष्य जनश्रुति
- सूरदास की रचनाएँ और उनकी प्रामाणिकता
- हिन्दी कृष्ण काव्य परम्परा में सूरदास का स्थान

इकाई-3

सूरदास की भक्ति : दार्शनिक और वैचारिक आधार

- सूरसागर पर श्रीमद्भागवत तथा अन्य पुराणों का प्रभाव और मौलिकता
- सूरदास की प्रबंध कल्पना : कृष्णलीला, विविध कथाएँ

इकाई-4

सूर की काव्य कला

- सूर की पात्र कल्पना
- सूर की गीत योजना
- सूर की भावाभिव्यंजना
- सूर का वर्णन कौशल और सौन्दर्य सृष्टि
- सूर की भाषा-शैली और उसके विविध रूप
- सूर की अलंकार योजना, छंद-विधान

इकाई-5

सूरसागर से निर्धारित पाठ

- सूरदास की हस्तलिखित प्रतियाँ, मुद्रित संस्करण, उसके पाठ की समस्या, उनका सामान्य रूप।
- सूरसागर : व्याख्या हेतु निर्धारित 60 पद (धीरेन्द्र वर्मा सं० सूरसागर सार)
विनय तथा भक्ति- 20 पद : 1, 2, 4, 11, 12, 18, 19, 21, 22, 23, 24, 25, 32, 39, 42, 44, 45, 46, 48, 54
गोकुल लीला- 10 पद : 6, 7, 13, 16, 18, 19, 25, 33, 35, 56
वृन्दावन लीला- 10 पद : 38, 42, 50, 79, 86, 145, 151, 156, 160, 166
मथुरा गमन - 10 पद : 56, 60, 62, 64, 68, 87, 93, 101, 104, 111
उद्धव संदेश - 10 पद : 49, 60, 65, 77, 95, 97, 102, 127, 136, 139

संदर्भ पुस्तकें

नन्द दुलारे वाजपेयी	:	सूरदास
रामचन्द्र शुक्ल (सं०)	:	भ्रमरगीत सार
प्रभु दयाल मीतल	:	अष्टछाप निर्णय
विजयेन्द्र स्नातक	:	बल्लभ सम्प्रदाय : सिद्धान्त और साहित्य
हरवंश लाल शर्मा	:	सूर और उनका काव्य
सावित्री श्रीवास्तव	:	नाभादास कृत भक्तमाल तथा प्रियादास कृत टीका का पाठालोचन
ब्रजेश्वर वर्मा	:	सूरदास
मनमोहन गौतम	:	सूर की काव्यकला
विद्वलनाथ	:	भक्तिहंस (अनु. केदानाथ)
हजारी प्रसाद द्विवेदी	:	सूर साहित्य
मीरा श्रीवास्तव	:	कृष्ण काव्य में सौन्दर्य बोध एवं रसानुभूति
नगेन्द्र (सं०)	:	सूरदास: ए रिवैल्युएशन
लक्ष्मी शंकर निगम	:	श्रीबल्लभाचार्य : उनका शुद्धाद्वैत एवं पुष्टिमार्ग
राजेन्द्र कुमार वर्मा (संपा०)	:	सूरसागर भाष्य
रमेश कुंतल मेघ	:	मनखंजन किनके

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तुलसीदास

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इकाई-1

भक्ति आन्दोलन और तुलसीदास

- भक्ति आंदोलन का उद्भव और विकास
- तुलसीदास का कवि व्यक्तित्व : सीमाएँ तथा विशेषताएँ
- मध्ययुगीन चिंताधारा और तुलसी की जीवन दृष्टि

इकाई-2

तुलसीदास की दार्शनिक विचारधारा और भक्ति

- तुलसीदास के विचारों की सामाजिक पृष्ठभूमि
- तुलसीदास का भक्ति दर्शन
- विविध भक्ति संप्रदाय तथा तुलसी की दास्य भक्ति

इकाई-3

राम काव्य परंपरा और तुलसीदास

- राम कथा की आधारभूत सामग्री और उसके ग्रहण का दृष्टिकोण
- तुलसीदास के जीवन वृत्त की सामग्री और प्रामाणिकता की समस्या
- तुलसीदास की रचनाओं का अनुशीलन : प्रामाणिकता, तिथिक्रम और पाठ की दृष्टि से
- तुलसीदास की अन्य कृतियों का आलोचनात्मक अध्ययन
- तुलसीदास द्वारा प्रयुक्त काव्य : शैलियाँ तथा काव्य रूप

इकाई-4

तुलसीदास की काव्य कला और भक्ति धारा में स्थान

- तुलसीदास और काव्य-शिल्प का विधान : रस, छंद, अलंकार
- तुलसीदास द्वारा प्रयुक्त भाषा के विविध रूप
- तुलसीदास की पात्र कल्पना और चरित्र चित्रण
- तुलसी की मौलिकता
- महाकाव्यकार तुलसीदास
- भक्ति काव्यधारा में तुलसी का योगदान

इकाई-5

रामचरितमानस : व्याख्या एवं आलोचना

निर्धारित पाठ : सम्पूर्ण अयोध्याकाण्ड

कवितावली : उत्तरकाण्ड- निर्धारित पाठ : 31, 33, 37, 57, 60, 72, 73, 96, 97, 106, 108, 129, 144, 148, 153, 156, 166, 169, 176 177 त्र कुल 20 पद

विनयपत्रिका- निर्धारित पाठ : 73, 85, 87, 88, 90, 101, 102, 105, 111, 115, 121, 156, 162, 169, 172, 188, 198, 275, 277, 279 त्र कुल 20 पद

संदर्भ पुस्तकें :

रामचन्द्र शुक्ल	:	गोस्वामी तुलसीदास
माताप्रसाद गुप्त	:	तुलसीदास
विश्वनाथ प्रसाद मिश्र	:	तुलसी की साधना
कामिल बुल्के	:	रामकथा
राजपति दीक्षित	:	तुलसीदास और उनका युग
रमेश कुंतल मेघ	:	तुलसी : आधुनिक वातायन से
विश्वनाथ त्रिपाठी	:	लोकवादी तुलसीदास
युगेश्वर	:	तुलसीदास : आज के संदर्भ में
योगेन्द्र प्रताप सिंह	:	मानस के रचना शिल्प का विश्लेषण
उदयभानु सिंह	:	तुलसी दर्शन मीमांसा
उदयभानु सिंह	:	तुलसी काव्य मीमांसा
विष्णुकान्त शास्त्री	:	तुलसी के हिय हेरि
नगेन्द्र	:	तुलसीदास : हिज माइण्ड एंड आर्ट
रामविलास शर्मा	:	भारतीय सौन्दर्यबोध और तुलसीदास

पत्रिकाएं :

वाक् का तुलसी विशेषांक (प्रवेशांक), बहुवचन, हंस

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इकाई-1

रीतिकाल और केशवदास

- रीतिकालीन परिस्थितियां एवं परिवेश
- केशव का व्यक्तित्व और रचनाएं
- केशव के दार्शनिक सिद्धांत
- केशव का आचार्यत्व
- रामकाव्य परम्परा में केशव का स्थान

इकाई-2

केशव की काव्य कला और रीतिकाल में स्थान

- केशव की भाव व्यंजना
- केशव की संवाद कला
- केशव का प्रकृति चित्रण
- केशव की अलंकार योजना
- केशव की कला और रीतिकाल में स्थान

इकाई-3

केशव की काव्य भाषा और छन्द योजना

- केशव की भाषा
- केशव की छन्द योजना

इकाई-4

रामचंद्रिका में महाकाव्यत्व

- टीकाएं और टीकाकार
- केशव के काव्य में युगीन चित्रण
- केशव का हिन्दी साहित्य में स्थान

इकाई-5

रामचन्द्रिका : व्याख्या एवं आलोचना हेतु निर्धारित पाठ

गणेश वंदना, सरस्वती वंदना, राम वंदना, अयोध्यापुरी का वर्णन, सीता-स्वयंवर, सूर्योदय वर्णन, विश्वामित्र और जनक की भेट, धनुष भंग, परशुराम संवाद, राम वन गमन, पंचवटी वर्णन, वन विलास वर्णन, सीता हरण, सीता-विलाप, वर्षा वर्णन, शरद वर्णन, हनुमान लंका गमन, रावण प्रसाद, सीता दर्शन, रावण-सीता संवाद, मुद्रिका प्रदन, सीता-हनुमान संवाद, मुद्रिका वर्णन, हनुमान रावण संवाद, लंका दाह, हनुमान राम के समक्ष, सीता संदेश, तिथि प्रयान, मंदोदरी का हितोपदेश, विभीषण का शरणागमन, रावण अंगद-संवाद, राम-रावण युद्ध, रावण-वध, सीता की अग्निपरीक्षा, रामराज्य वर्णन

संदर्भ पुस्तकें

आनंद प्रसाद दीक्षित	:	केशवदास (मूल्यांकन और पाठ संग्रह) तथा आचार्य विश्वप्रकाश दीक्षित
डॉ० नगेन्द्र	:	रीतिकाव्य की भूमिका
डॉ० विजयपाल सिंह	:	केशव की काव्य कला
डॉ० विजयपाल सिंह	:	केशवदास

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जयशंकर प्रसाद

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इकाई-1

प्रसाद का जीवन वृत्त एवं रचना संसार

- प्रसाद का जीवन वृत्त
- प्रसाद साहित्य का संक्षिप्त परिचय
- प्रसाद की जीवन दृष्टि और भारतीय दर्शन

इकाई-2

छायावादी काव्यांदोलन और जयशंकर प्रसाद

- प्रसाद का काव्य ('कामायनी' और 'आंसू' का विशेष अध्ययन)
- कामायनी से निर्धारित पाठ : काम, लज्जा एवं आनन्द सर्ग
- आंसू का संपूर्ण पाठ

इकाई-3

प्रसाद का नाट्य लेखन और रंगदर्शन

- प्रसाद के नाटक ('स्कन्दगुप्त' एवं 'चन्द्रगुप्त' का विशेष अध्ययन)

इकाई-4

प्रसाद का कथा एवं कथेतर साहित्य

- प्रसाद का कथा साहित्य एवं निबन्ध ('कंकाल' तथा 'काव्यकला और अन्य निबन्ध' का विशेष अध्ययन)
- कहानी- आकाशदीप, मधुवा, गुंडा
- छायावाद आधुनिक साहित्य और प्रसाद

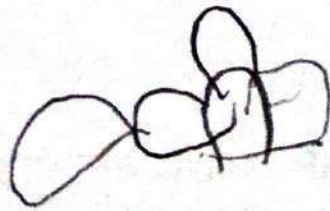
इकाई-5

प्रसाद का आलोचनात्मक गद्य

- काव्य और कला, रहस्यवाद, यथार्थवाद और छायावाद सम्बन्धी प्रसाद के विचार
- प्रसाद की रंगमंच सम्बन्धी मान्यताएं
- प्रसाद की अन्य आलोचनाएं

संदर्भ पुस्तकें

नन्ददुलारे वाजपेयी	:	जयशंकर प्रसाद
मुक्तिबोध	:	कामायनी : एक पुनर्विचार
नगेन्द्र	:	कामायनी के अध्ययन की समस्या
प्रेमशंकर	:	प्रसाद का काव्य
सिद्धनाथ कुमार	:	प्रसाद के नाटकों का पुनर्मूल्यांकन
रामलाल सिंह	:	कामायनी - अनुशीलन
वेदज्ञ आर्य	:	कामायनी की पारिभाषिक शब्दावली
गोविन्द चातक	:	प्रसाद के नाटकों का स्वरूप और संरचना
गिरीश रस्तोगी एवं		
जगदीश प्रसाद श्रीवास्तव	:	प्रसाद का कथा साहित्य
गिरिजा राय	:	कामायनी की आलोचना प्रक्रिया
अनूप कुमार	:	प्रसाद की रचनाओं में संस्करणगत परिवर्तनों का अध्ययन
सूर्यप्रसाद दीक्षित	:	प्रसाद का गद्य
कृपाशंकर पाण्डेय	:	छायावाद की खड़ीबोली और प्रसाद
प्रभाकर श्रोत्रिय	:	जयशंकर प्रसाद की प्रासंगिकता



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‘निराला’

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इकाई-1

- निराला का जीवन वृत्त एवं युग संदर्भ
- निराला साहित्य का परिचय
- छायावादी काव्य और निराला
- निराला काव्य की विकास यात्रा : छायावादी काव्य चेतना, छायावाद से प्रगतिवाद की ओर, प्रपत्तिभाव की कविताएं।
- निराला की कविताओं में स्वाधीन भारत का बिम्ब

इकाई-2

- नवजागरण और निराला का इतिहास
- निराला के काव्य में मिथकों का पुनर्पाठ
- निराला की विद्रोही व क्रांतिकारी चेतना
- मनुष्य की मुक्ति से लेकर कविता की मुक्ति तक : निराला के काव्य में मुक्तिकामी चेतना
- निराला की कविताओं में अध्यात्म और वेदान्त

इकाई-3

- निराला का समकालीनता-बोध
 - समकालीन प्रश्नों के बीच निराला का साहित्य : एक मूल्यांकन
 - निराला की काव्य-संवेदना, शिल्प और भाषा
 - निराला की सांस्कृतिक चेतना
 - निर्धारित कविताएँ (व्याख्या एवं मूल्यांकन हेतु)
जुही की कली, आवाहन, बादल राग (1, 5 और 6), मौन, प्रिया के प्रति, वर दे वीणावादिनी, नयनों के डोरे लाल गुलाब भरे, प्रिय यामिनी जागी, जला दे जीर्ण-शीर्ण प्राचीन, तुलसीदास, शिवाजी के प्रति पत्र, तोड़ती पत्थर, सरोज स्मृति, कुकुरमुत्ता, गहन है यह अंधकारा, संत कवि रविदास जी के प्रति, मरण को जिसने वरा है, जल्द-जल्द पैर बढ़ाओ, राजे ने अपनी रखवाली की, मंहगू महंगा रहा, शिशिर की शर्वरी, आशा-आशा मरे, निविड़ विपिन पथ अराल, मरा हूँ हजार मरण, गीत गाने दो मुझे, सुख का दिन डूबे डूब जाय, ऊँट-बैल का साथ हुआ है, मानव जहाँ बैल-घोड़ा है, पत्रोत्कथित जीवन का विष बुझा हुआ है।
- निर्धारित पुस्तक- निराला-संचयन, (संपा0) विवेक निराला, राजकमल प्रकाशन, नई दिल्ली

इकाई-4

- निराला का गद्य : जीवन-संग्राम का आख्यान
- निराला का कथा साहित्य : हाशिए के समाज की कथा
- निराला के उपन्यास : जीवन-चरित के आख्यान
- निराला की कथा भाषा
- निराला के कथा-साहित्य में दलित और स्त्री-प्रश्न
निर्धारित पाठ (व्याख्या एवं आलोचनात्मक अध्ययन हेतु)
(क) कहानियां- देवी, ज्योतिर्मयी, चतुरी चमार, राजा साहब को ठेंगा दिखाया
(‘निराला संचयन’ में संकलित)
(ख) उपन्यास- निरूपमा, कुल्ली भाट (राजकमल प्रकाशन से प्रकाशित)

इकाई-5

- छायावादी कवियों का आलोचनात्मक/वैचारिक गद्य
- निराला की आलोचना-दृष्टि : कविता की बहसें, सामाजिक-सांस्कृतिक प्रश्नों पर
निराला का वैचारिक लेखन
- निराला के आलोचनात्मक लेखन में कला और विचारधारा
- निराला के आलोचनात्मक प्रतिमान
- निर्धारित लेख (व्याख्या एवं आलोचनात्मक अध्ययन हेतु)
कवि और कविता, साहित्य की समतल भूमि, मेरे गीत और कला, परिमल की
भूमिका, मुसलमान और हिंदू कवियों में विचार-साम्य, बाहरी स्वाधीनता और स्त्रियां।
(‘निराला संचयन’ में संकलित)

संदर्भ पुस्तकें

रामविलास शर्मा	:	निराला की साहित्य-साधना (खण्ड-3)
नंददुलारे वाजपयी	:	कवि निराला
बच्चन सिंह	:	निराला का काव्य : औपनिवेशिक और उत्तर औपनिवेशिक समय
दूधनाथ सिंह	:	निराला : आत्महंता आस्था
नंदकिशोर नवल	:	निराला की छवियां
नंदकिशोर नवल	:	निराला : कृति से साक्षात्कार
भवदेव पाण्डेय	:	एवम् निराला
तरुण कुमार	:	निराला की विचारधारा और विवेकानंद
संध्या सिंह	:	निराला के काव्य का राजनीतिक संदर्भ
राजेन्द्र कुमार (संपा0)	:	स्वाधीनता की अवधारणा और निराला
ए0 अरविंदाक्षण (संपा0)	:	निराला : एक पुनर्मूल्यांकन
धनंजय वर्मा	:	निराला काव्य का पुनर्मूल्यांकन
रेखा खरे	:	निराला की कविताएं और काव्यभाषा
शशिकला राय	:	समय के साक्षी : निराला
विवेक निराला	:	निराला साहित्य में प्रतिरोध के स्वर
संतोष भदौरिया	:	हिन्दी की लम्बी कविता का कद

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‘अज्ञेय’

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कोड : HIN 558

इकाई-1

- अज्ञेय : जीवन वृत्त
- अज्ञेय की रचना यात्रा : कविता, उपन्यास, कहानी, नाटक, यात्रावृत्त, संस्मरण, ललित निबंध, आलोचना एवं संपादन
- अज्ञेय साहित्य के वैचारिक व दार्शनिक स्रोत : बौद्ध दर्शन, अस्तित्ववाद, आधुनिकतावाद, मनोविश्लेषणवाद, टी0एस0 इलियट के साहित्य सिद्धान्त, नवरहस्यवाद एवं अन्य प्रभाव

इकाई-2

- अज्ञेय और आधुनिक रचना की समस्या : व्यक्तित्व व सृजनात्मकता, रचना प्रक्रिया, भाषा व सप्रेषण की समस्या, भाषा और अनुभूति का अद्वैत, मौन विभाजन।
- अज्ञेय की सभ्यता समीक्षा : रचना और जीवन दृष्टि, मनुष्य प्रकृति और यंत्र, व्यक्ति, परम्परा राजसत्ता और समाज, व्यक्ति-स्वातंत्र्य के अर्थ, प्रेम और मृत्यु, प्रेम और स्वाधीनता।
- ललित निबंध : शब्द, मौन, अस्तित्व, सावन किस रुत आयेगा।

इकाई-3

- अज्ञेय और ‘नई कविता’
- अज्ञेय की आलोचना दृष्टि
- आलोचनात्मक लेख : ‘तारसप्तक’ की भूमिका, सर्जना के क्षण।

इकाई-4

- उपन्यास का नया विधान
- कथा शिल्प के नए प्रयोग और अज्ञेय
- कथा साहित्य : व्याख्या के लिए निर्धारित पाठ, अपने-अपने अजनबी (उपन्यास), कोठरी की बात (कहानी)

इकाई-5

- व्याख्या हेतु निर्धारित कविताएं :
शिशिर के प्रति (भग्नदूत), हरी घास पर क्षण भर, देखती है दीठ (हरी घास पर क्षण भर), कलगी बाजरे की, नदी के द्वीप, बावरा अहेरी (शरणार्थी), यह मुकुट तुम्हारा, असाध्य वीणा, द्वितीया।

संदर्भ पुस्तकें :

शम्भुनाथ	:	मिथक और आधुनिक कविता
रामदरश मिश्र	:	आधुनिक हिन्दी कविता : सर्जनात्मक सन्दर्भ
शम्भुनाथ	:	कवि की नई दुनिया
प्रणय कृष्ण	:	अज्ञेय का काव्य प्रेम : प्रेम और मृत्यु
संजय कुमार	:	अज्ञेय : प्रकृति काव्य और काव्य प्रकृति
रामस्वरूप चतुर्वेदी	:	अज्ञेय और आधुनिक रचना की समस्या
ओम थानवी (संपा0)	:	अपने अपने अज्ञेय, भाग-1 एवं 2
विनोद कुमार मंगलम	:	अज्ञेय और पाश्चात्य साहित्यकारों का तुलनात्मक अध्ययन
प्रयाग पथ (पत्रिका)	:	अज्ञेय विशेषांक

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मुक्तिबोध

क्रेडिट : 04

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इकाई-1

- मुक्तिबोध- जीवन वृत्त और रचनात्मक संघर्ष
- नयी कविता आन्दोलन और मुक्तिबोध
- मुक्तिबोध : कला और विचारधारा का द्वन्द्व

इकाई-2

- यथार्थ और फैण्टेसी : मुक्तिबोध के काव्य की रचना प्रक्रिया
- मुक्तिबोध की काव्यानुभूति की बनावट

इकाई-3

- मुक्तिबोध की लम्बी कविताएं : जटिल यथार्थ की समग्र अभिव्यक्ति/निर्धारित पाठः
क. कविताएं- पूंजीवादी समाज के प्रति, लाल सलाम, भूरी-भूरी खाक धूल, जड़ीभूत ढांचों से लड़ेंगे, अंतःकरण का आयतन, चकमक चिनगारियां, चांद का मुंह टेढ़ा है, ब्रह्मराक्षस, अंधेरे में, लकड़ी का रावण, भूल गलती, एक आत्म वक्तव्य, चम्बल की घाटी में।

इकाई-4

निर्धारित पाठ :

ख. कहानियां- ब्रह्मराक्षस का शिष्य, क्लाड इथरली, विपात्र (लम्बी कहानी)।

इकाई-5

निर्धारित पाठ :

ग. आलोचनात्मक लेख/निबंध- साहित्यिक की डायरी, नयी कविता का आत्म संघर्ष, समाज और साहित्य, मार्क्सवादी साहित्य का सौन्दर्य पक्ष, वस्तु और रूप (1 से 4 तक)

संदर्भ पुस्तकें :

अशोक चक्रधर

डॉ० रामविलास शर्मा

नामवर सिंह

चंचल चौहान

नंदकिशोर नवल

कृष्ण मोहन

राखी राय हालदार

- : मुक्तिबोध की रचना प्रक्रिया
- : नयी कविता और अस्तित्ववाद
- : कविता के नये प्रतिमान
- : मुक्तिबोध के प्रतीक और बिम्ब
- : मुक्तिबोध : कवि छवि
- : मुक्तिबोध : स्वप्न और संघर्ष
- : आधुनिकता की भाषा और मुक्तिबोध

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भारतेन्दु हरिश्चंद्र

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कोड : HIN 560

इकाई-1

- भारतेन्दु हरिश्चन्द्र : जीवन वृत्त और व्यक्तित्व
- आधुनिक हिन्दी गद्य साहित्य के प्रवर्तक भारतेन्दु
- हिन्दी नवजागरण और भारतेन्दु
- हिन्द भाषा की उन्नति में भारतेन्दु का योगदान
- हिन्दी-उर्दू विवाद और भारतेन्दु का पक्ष
- समाज सुधार आन्दोलन और भारतेन्दु
- भारतेन्दु मंडल और उसकी विशेषताएं

इकाई-2

- भारतेन्दु का काव्य और उसकी प्रवृत्तियाँ (ब्रजभाषा काव्य, खड़ी बोली और उर्दू कवितायें)
- व्याख्या के निर्धारित पाठ (अ) कार्तिक स्नान (आ) प्रेम सरोवर (इ) फूलों का गुच्छा (ई) बसंत होली (उ) बन्दर सभा (ऊ) नए जमाने की मुकरी (ए) स्फुट रचना (गज़ल-1) फिर आई फसले गुल फिर ज़ख्मदह रह रह के पकाते हैं

इकाई-3

- नाटककार भारतेन्दु
- हिन्दी रंगमंच के प्रवर्तन में भारतेन्दु की भूमिका
- भारतेन्दु के मौलिक और अनूदित नाटकों का संक्षिप्त परिचय
- निर्धारित पाठ- (अ) वैदिकी हिंसा हिंसा न भवति (प्रहसन) (आ) अंधेर नगरी (नाटक)

इकाई-4

- निबंधकार और पत्रकार भारतेन्दु
- भारतेन्दु द्वारा प्रवर्तित पत्र-पत्रिकाएं : कविवचन सुधा, हरिश्चंद्र चंद्रिका और बाला बोधिनी

- भारतेन्दु के कुछ प्रमुख निबंध और व्याख्यान : निर्धारित पाठ (अ) स्वर्ग में विचार सभा का अधिवेशन (आ) भारतवर्ष की उन्नति कैसे हो सकती है ? (इ) नाटक, (ई) जातीय संगीत

इकाई-5

- भारतेन्दु की ऐतिहासिक रचनाएं और पुरावृत्त संग्रह : एक परिचय
- भारतेन्दु प्रणीत जीवन-चरित- विशेष अध्ययन के लिए निर्धारित पाठ- (अ) श्री शंकगचार्य (आ) महाकवि श्री जयदेव जी (इ) बीबी फातिमा
- भारतेन्दु के यात्रा-वृत्तान्त विशेष अध्ययन के लिए निर्धारित पाठ (अ) वैद्यनाथ की यात्रा
- भारतेन्दु का आत्म-वृत्त- एक कहानी कुछ आप बीती कुछ जगबीती
- भारतेन्दु लिखित सम्पादकीय- विशेष अध्ययन के लिए निर्धारित पाठ (अ) हिंदी कविता (10 जनवरी 1872 के साप्ताहिक कविवचन सुधा का सम्पादकीय लेख)
- भारतेन्दु के दस्तावेज- विशेष अध्ययन के लिए निर्धारित पाठ (अ) एजुकेशन कमीशन एविडेंस ऑफ बाबू हरिश्चन्द्र

संदर्भ पुस्तकें :

भारतेन्दु समग्र, सम्पादक- हेमंत शर्मा, हिन्दी प्रचारक संस्थान, वाराणसी
 भारतेन्दु हरिश्चन्द्र और हिन्दी नवजागरण की समस्याएं- रामविलास शर्मा, राजकमल प्रकाशन

भारतेन्दु के विचार : एक पुनर्विचार- चंद्रभानु सीताराम सोनवणे
 हरिश्चंद्र : भारतभूषण भारतेन्दु बाबू हरिश्चंद्र का जीवन चरित- शिवानन्द सहाय, हिन्दी समिति

The Nationalization of Hindu Traditions : Bharatendu Harischandra and Nineteenth-century Banaras- Vasudha Dalmia, Oxford University Press.

हिन्दी गद्य : विकास और विन्यास- रामस्वरूप चतुर्वेदी, राजकमल प्रकाशन
 Culture and Power in Banaras : Community, Performance and Environment- 1800-1980- Editor-Sandriya B. Frietag, University of California Press

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(कवि/लेखक का विशेष अध्ययन)
प्रेमचंद

क्रेडिट : 04

कोड : HIN 561

इकाई-1

- प्रेमचंद की जीवनी और रचनाएं
- प्रेमचंद की विचारधारा, जीवन-दर्शन

इकाई-2

- प्रेमचंद के उपन्यासों का आलोचनात्मक अध्ययन एवं व्याख्या : रंगभूमि

इकाई-3

- प्रेमचंद के उपन्यासों का आलोचनात्मक अध्ययन एवं व्याख्या : कर्मभूमि

इकाई-4

- प्रेमचंद की कहानियों का आलोचनात्मक अध्ययन एवं व्याख्या
क. पंच परमेश्वर, पूस की रात, स्वत्वरक्षा, ब्रह्म का स्वांग और मनोवृत्ति
ख. ठाकुर का कुआं, सद्गति, दूध का दाम और कफ़न

इकाई-5

- प्रेमचंद के निबन्धों का आलोचनात्मक अध्ययन एवं व्याख्या
- पुराना जमाना नया जमाना, साहित्य का उद्देश्य
- साम्प्रदायिकता और संस्कृति, महाजनी सभ्यता

संदर्भ पुस्तकें :

जैनेन्द्र कुमार	:	प्रेमचंद : एक कृति व्यक्तित्व
नन्ददुलारे वाजपेयी	:	प्रेमचंद : साहित्यिक विवेचना
अमृतराय	:	कलम का सिपाही
अमृतराय	:	प्रेमचंद की प्रासंगिकता
शिवरानी देवी	:	प्रेमचंद : घर में
रमकिलासार्मा	:	प्रेमचंद और उनका युग
कल्याणमल लोढ़ा	:	प्रेमचंद परिचर्चा
राजेश्वर गुरु	:	गोदान
इन्द्रनाथ मदान	:	गोदान

विश्वनाथ प्रसाद तिवारी	:	प्रेमचंद
शैलेश जैदी	:	प्रेमचंद की उपन्यास यात्रा : नव मूल्यांकन
शैलेश जैदी	:	गोदान : एक नव्य दृष्टि
कमलकिशोर गोयनका	:	प्रेमचंद साहित्यकोष
कमलकिशोर गोयनका	:	प्रेमचंद के उपन्यासों का शिल्प विधान
कमलकिशोर गोयनका	:	प्रेमचंद की कहानियों का कालक्रमानुसार अध्ययन
सदानंद शाही	:	दलित साहित्य की अवधारणा और प्रेमचंद
नन्दकिशोर नवल	:	प्रेमचंद का सौन्दर्यशास्त्र
रामवक्ष	:	प्रेमचंद और भारतीय किसान
कमल कोठारी, जियपाल सिंह	:	प्रेमचंद के पात्र
मदन गोपाल	:	कलम का मजदूर
शम्भुनाथ	:	प्रेमचंद : एक पुनर्मूल्यांकन
आलोक राय, मुश्ताक अली	:	समक्ष प्रेमचंद
धर्मवीर	:	प्रेमचंद की नीली आंखें
धर्मवीर	:	प्रेमचंद : सामंत का मुंशी

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(कवि/लेखक का विशेष अध्ययन)

रामचन्द्र शुक्ल

क्रेडिट : 04

कोड : HIN 562

इकाई-1

- आचार्य रामचन्द्र शुक्ल : जीवन वृत्त एवं रचना-कर्म
- आचार्य रामचन्द्र शुक्ल से पूर्व हिंदी आलोचना, निबंध एवं हिन्दी साहित्य के इतिहास-लेखन की स्थिति

इकाई-2

आचार्य रामचन्द्र शुक्ल और हिन्दी आलोचना

- आचार्य रामचन्द्र शुक्ल के काव्य सिद्धांत
- आचार्य रामचन्द्र शुक्ल का रस-सिद्धान्त
- आचार्य रामचन्द्र शुक्ल और आई0ए0 रिचर्ड्स के काव्य सिद्धान्तों की तुलना
- आचार्य रामचन्द्र शुक्ल और परवर्ती हिंदी आलोचना

इकाई-3

आचार्य रामचन्द्र शुक्ल और हिन्दी निबंध

- आचार्य रामचन्द्र शुक्ल के निबंधों का आलोचनात्मक अध्ययन एवं व्याख्या
- क. भाव या मनोविकास संबंधी निबंध : भाव या मनोविकार, उत्साह, लोभ और प्रीति, क्रोध
- ख. आलोचनात्मक निबंध : काव्य में लोक मंगल की साधनावस्था, साधारणीकरण, व्यक्ति-वैचित्र्यवाद, काव्य में रहस्यवाद, रसात्मक बोध के विविध रूप

इकाई-4

आचार्य रामचन्द्र शुक्ल और हिन्दी साहित्येतिहास-लेखन

- इतिहास-दृष्टि एवं साहित्येतिहास दृष्टि का अंतर
- हिंदी साहित्य का इतिहास लेखन और आचार्य शुक्ल की इतिहास दृष्टि
- शुक्लोत्तर इतिहास लेखन और आचार्य रामचन्द्र शुक्ल
- आचार्य शुक्ल की इतिहास-दृष्टि की प्रासंगिकता

इकाई-5

- आचार्य शुक्ल का स्फुट लेखन

- आचार्य शुक्ल का काव्य सृजन
- आचार्य शुक्ल का कहानी-लेखन
- आचार्य शुक्ल का संस्मरणात्मक लेखन

संदर्भ पुस्तकें :

चंद्रशेखर शुक्ल	:	रामचन्द्र शुक्ल : जीवन और कृतित्व
रामविलास शर्मा	:	आचार्य रामचन्द्र शुक्ल और हिन्दी आलोचना
रामचन्द्र शुक्ल	:	चिन्तामणि, भाग 1, भाग 2 और भाग 3-4
रामचन्द्र शुक्ल	:	विश्व प्रपंच
रामचन्द्र शुक्ल	:	हिन्दी साहित्य का इतिहास
नलिन विलोचन शर्मा	:	साहित्य का इतिहास-दर्शन
नामवर सिंह	:	इतिहास और आलोचना
गुलाब राय, विजयेंद्र स्नातक	:	रामचन्द्र शुक्ल
नीलकांत	:	रामचन्द्र शुक्ल
रामचन्द्र शुक्ल	:	रस-मीमांसा
रामचन्द्र शुक्ल	:	जायसी ग्रन्थावली
रामचन्द्र शुक्ल	:	तुलसीदास
रामचन्द्र शुक्ल	:	सूरदास

एम.ए. तृतीय सेमेस्टर

13वाँ प्रश्न पत्र : (वैकल्पिक)

हिन्दी पत्रकारिता

क्रेडिट : 04

कोड : HIN 563

इकाई-1

- पत्रकारिता की अवधारणा और उसके विविध रूप, हिन्दी पत्रकारिता का उद्भव और विकास : हिन्दी पत्रकारिता, स्वतंत्रता आन्दोलन और प्रतिबन्धन का इतिहास

इकाई-2

- समाचार निर्माण : समाचार के विभिन्न स्रोत, समाचार-संकलन तथा लेखन; शीर्षकीकरण, आमुख और समाचार प्रस्तुति, कैंप्शन, प्रूफ संशोधन, ले आउट एवं पृष्ठ सज्जा, समाचार पत्रों में विभिन्न स्तंभों की योजना।

इकाई-3

- सम्पादकीय विभाग और उसके कर्तव्य : संवाददाता की अर्हता, उनकी श्रेणियां एवं कार्य पद्धति

इकाई-4

- पत्रकारिता से सम्बंधित लेखन प्रविधियां- सम्पादकीय, फीचर, साक्षात्कार, स्तम्भ लेखन, विज्ञापन लेखन आदि की प्रविधि
- इलेक्ट्रानिक मीडिया की पत्रकारिता- रेडियो, टी.वी. और इण्टरनेट की पत्रकारिता

इकाई-5

- भारतीय संविधान में प्रदत्त मौलिक अधिकार, सूचनाधिकार एवं मानवाधिकार, प्रेस सम्बन्धी प्रमुख कानून तथा आचार संहिता, प्रजातान्त्रिक व्यवस्था में चतुर्थ स्तम्भ के रूप में पत्रकारिता का दायित्व।

संदर्भ पुस्तकें :

अर्जुन तिवारी	:	हिन्दी पत्रकारिता का वृहद इतिहास
असगर वजाहत, प्रभात रंजन	:	टेलीविजन लेखन
ओमकार चौधरी	:	खोजी पत्रकारिता
कृष्ण बिहारी मिश्र	:	हिन्दी पत्रकारिता
कमल दीक्षित, महेश दर्पण	:	समाचार संपादन
के०पी० वेनराईट	:	जर्नलिज्म
डी०डी० ओझा	:	दूरसंचार और सूचना प्रौद्योगिकी
नन्दकिशोर त्रिखा	:	समाचार संकलन और लेखन
नन्दकिशोर त्रिखा	:	भेंटवार्ता और प्रेस कांफ्रेंस
मुश्ताक अली	:	व्यावहारिक पत्रकारिता
संतोष भदौरिया	:	शब्द प्रतिबन्ध, मेधा बुक्स, नई दिल्ली

एम.ए. तृतीय सेमेस्टर
13वाँ प्रश्न पत्र : (वैकल्पिक)
प्रयोजनमूलक हिन्दी

क्रेडिट : 04

कोड : HIN 664

इकाई-1

- प्रयोजन मूलक हिन्दी : अभिप्राय और परिव्याप्ति
- प्रयोजनमूलक हिन्दी का अर्थ : प्रयोजनमूलक हिन्दी, बोलचाल की हिन्दी और साहित्यिक हिन्दी में अंतर, प्रयोजनमूलक हिन्दी के नामकरण की समस्या, प्रयोजनमूलक हिन्दी के विविध रूप, प्रयोजनमूलक हिन्दी और राजभाषा से उसके सम्बन्ध
- ई-लेखन के विविध आयाम- देवनागरी फाण्ट, यूनिकोड, राजभाषा-साफ्टवेयर

इकाई-2

प्रयोजनमूलक हिन्दी का व्यावहारिक स्वरूप :

- टिप्पणी : स्वरूप एवं प्रकार
- संक्षेपण : अर्थ एवं प्रक्रिया
- प्रतिवेदन : अर्थ एवं विशेषताएं
- प्रारूपण : महत्व और विशेषताएं
- कार्यालयी पत्र के प्रकार- सरकारी (शासकीय पत्र), अर्द्धसरकारी पत्र, कार्यालयी आदेश, कार्यालयी ज्ञापन, पृष्ठांकन, अधिसूचना, प्रेस विज्ञप्ति एवं परिपत्र

इकाई-3

कार्यालयी हिन्दी की प्रकृति और उसका प्रयोग

- कार्यालयी हिन्दी : अर्थ एवं प्रकृति
- कार्यालयी हिन्दी : बोलचाल की हिन्दी और साहित्यिक हिन्दी में अंतर
- कार्यालयी हिन्दी की विशेषताएं
- कार्यालयी हिन्दी की निर्माण प्रक्रिया
- कार्यालयी हिन्दी की उपयोगिता एवं उसका महत्व

इकाई-4

- पारिभाषिक शब्दावली : सैद्धांतिक एवं व्यावहारिक परिचय
- पारिभाषिक शब्दावली : अभिप्राय और वर्गीकरण
- पारिभाषिक शब्दावली : निर्माण के सिद्धांत
- पारिभाषिक शब्दावली : अनुवाद की समस्याएं

- प्रशासन और विधि संबंधी शब्दावली
- वाणिज्य संबंधी शब्दावली (बैंक, बीमा)

इकाई-5

- अनुवाद : सिद्धान्त एवं व्यवहार
- अनुवाद : अवधारणा और प्रक्रिया
- हिन्दी की प्रयोजनीयता में अनुवाद की भूमिका
- कार्यालयी हिन्दी एवं अनुवाद
- विज्ञापन में अनुवाद
- वाणिज्य में अनुवाद

संदर्भ पुस्तकें :

रामप्रकाश, दिनेश गुप्त	:	प्रयोजन मूलक हिंदी : संरचना और सिद्धान्त
दंगल झाल्टे	:	प्रयोजनमूलक हिंदी : सिद्धान्त और प्रयोग
मुश्ताक अली	:	प्रयोजनमूलक हिन्दी
कैलाश चंद्र भाटिया	:	कामकाजी हिंदी
कैलाश चंद्र भाटिया	:	प्रशासन में राजभाषा हिन्दी
हरिमोहन	:	प्रशासनिक हिन्दी : टिप्पणी, प्रारूपण
कृष्ण कुमार गोस्वामी	:	व्यावहारिक हिंदी और रचना
सूरजभान सिंह	:	हिंदी भाषा : संदर्भ और संरचना
कुसुम अग्रवाल	:	भाषा शिल्प
वी०आर० जगन्नाथन	:	हिन्दी प्रभाग और प्रयोग
रवीन्द्रनाथ श्रीवास्तव	:	भाषाई अस्मिता और हिन्दी
प्रकाशन विभाग दिल्ली	:	राजभाषा हिन्दी

एम.ए. तृतीय सेमेस्टर

13वाँ प्रश्न पत्र : वैकल्पिक

भारतीय प्रवासी एवं विस्थापित समाज (डायस्पोरा) का साहित्य

क्रेडिट : 04

कोड : HIN 565

इकाई-1

भारतीय डायस्पोरा का ऐतिहासिक परिचय

व्यापार नेटवर्क, स्वतंत्र प्रवासन, सिद्धदोष प्रवासन, अनुबंधित श्रमिक-गिरमिटिया, कंगनी और मैस्त्री स्वातंत्र्योत्तर काल में प्रवासन

इकाई-2

भाषा अनुरक्षण, भारतीय बोली समूह का क्रिओल, पिजिन तथा कोईन बनावट का प्रभाव, ओ0बी0एच0, (समुद्रपारीय भोजपुरी हिंदी) सरनामी, कलकतिया बात, नाताली हिंदी, पुरनिया हिंदी, फिजी हिंदी, त्रिनिदाद भोजपुरी का परिचय, भारतीय डायस्पोरा में हिंदी भाषा।

इकाई-3

लोक साहित्य, कविता, कहानी एवं उपन्यास
गिरमिटिया विमर्श, स्त्री विमर्श

इकाई-4

डायस्पोरा पर भारतीय लेखक
भारतीय मूल के लेखक
क. सूरीनाम, फिजी एवं मारीशस
ख. यूरोप एवं अमेरिकी
गैर-भारतीय लेखकों द्वारा सृजित भारतीय डायस्पोरा साहित्य

इकाई-5

पाठ आधारित समझ (हिंदी डायस्पोरा लेखक)
क. फिजी द्वीप में मेरे इक्कीस वर्ष- तोताराम सनाढ्य
ख. लाल पसीना : अभिमन्यु अनंत
ग. डउका पुरान : सुब्रमनी
घ. पूछो इस माटी से : रामदेव धुरंधर
ङ कमला प्रसाद शर्मा का लेखन

संदर्भ पुस्तकें :

- गौतम मोहनकांत (2015), कैरेबियन देशों में हिंदी भाषा और समाज, बहुवचन अंक-46, जुलाई-सितंबर-2015
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- मिश्र, विजय (2007), द लिटरेचर ऑफ द इंडियन डायस्पोरा : थ्योराइजिंग द डायस्पोरिक इमेजरी, रुले पब्लिशिंग
- सुब्रमनी (2001), डउका पुरान, स्टार पब्लिकेशंस, नई दिल्ली
- ह्यू टिंकर (1974), ए न्यू सिस्टम ऑफ स्लेवरी : द एक्सपोर्ट ऑफ इण्डियन लेबर ओवरसीज, 1830-1920
- तोराबुली, खल एवं मरीना कार्टर (2002), कुलीट्यूड : एन एंथालोजी ऑफ द इंडियन लेबर डायस्पोरा, एंथम प्रेस

एम.ए. तृतीय सेमेस्टर

14वाँ प्रश्न पत्र

भाषा विज्ञान और हिन्दी भाषा (इतिहास और सिद्धांत)

क्रेडिट : 04

कोड : HIN 522

इकाई-1

- भाषा विज्ञान की शाखाएँ
- ध्वनि विज्ञान : ध्वनियों का वर्गीकरण और विशेषताएँ
- ध्वनि परिवर्तन के कारण एवं दिशाएँ

इकाई-2

- रूप विज्ञान एवं शब्द विज्ञान
- अर्थ का तात्पर्य, अर्थ ग्रहण के आधार
- अर्थ परिवर्तन के कारण एवं दिशाएँ

इकाई-3

- प्राचीन एवं मध्यकालीन भारतीय आर्य भाषाओं का अति संक्षिप्त परिचय
- अपभ्रंश, अवहट्ट तथा पुरानी हिन्दी की तुलनात्मक विशेषताएँ
- हिन्दी की उपभाषाओं का संक्षिप्त परिचय
- अवधी, ब्रज, खड़ी बोली, भोजपुरी, कुमाउँनी, मारवाड़ी आदि हिन्दी बोलियों की संक्षिप्त विशेषताएँ

इकाई-4

- काव्य भाषा के रूप में अवधी, ब्रज, खड़ीबोली का विकास
- मानक हिन्दी का व्याकरण

इकाई-5

- देवनागरी लिपि का ऐतिहासिक विकास क्रम
- देवनागरी लिपि की वैज्ञानिकता एवं व्यावहारिकता

संदर्भ पुस्तकें :

रामचन्द्र शुक्ल	:	बुद्धचरित की भूमिका (चिन्तामणि भाग-3)
सुनीति कुमार चाटुर्ज्या	:	भारतीय आर्य भाषा और हिन्दी
दीप्ति शर्मा	:	व्याकरणिक कोटियों का विश्लेषणात्मक अध्ययन
धीरेन्द्र वर्मा	:	हिन्दी भाषा का इतिहास
उदयनारायण तिवारी	:	हिन्दी भाषा का उद्भव और विकास

हरदेव बाहरी	:	हिन्दी भाषा : उद्भव, विकास और रूप
माताबदल जायसवाल	:	मानक हिन्दी का ऐतिहासिक व्याकरण
यमुना काचरू	:	हिन्दी का समसामयिक व्याकरण
रामकिशोर शर्मा	:	हिन्दी भाषा का ऐतिहासिक परिप्रेक्ष्य
शैल पाण्डेय	:	हिन्दी क्रियाओं का भाषा वैज्ञानिक अध्ययन
आर्येन शर्मा	:	बेसिक ग्रामर ऑफ मॉडर्न हिन्दी
अनन्त चौधरी	:	हिन्दी व्याकरण का इतिहास
मलिक मुहम्मद	:	हिन्दी और उसकी उपभाषाएँ
विमलेश कान्त वर्मा	:	राजभाषा हिन्दी : विकास के विविध आयाम
मीरा दीक्षित	:	हिन्दी भाषा
मीरा दीक्षित	:	भाषा विज्ञान के सिद्धान्त

एम.ए. तृतीय सेमेस्टर

15वाँ प्रश्न पत्र

निबंध : साहित्यिक एवं साहित्येत्तर

क्रेडिट : 04

कोड : HIN 523

इकाई-1

- निबंध क्या है ? भारतीय एवं पाश्चात्य दृष्टिकोण
- निबंध : उद्भव और विकास
- निबंध और अन्य गद्य विधाएं
- निबंध का विषय क्षेत्र : साहित्यिक एवं साहित्येत्तर
- निबंध की शैलीगत संरचना

इकाई-2

- हिन्दी के विभिन्न साहित्यिक आंदोलन, विचारधाराएं और साहित्य
- मानव मूल्य और साहित्य
- साहित्य और संस्कृति
- साहित्य की सार्वभौमिकता और हिन्दी साहित्य
- समकालीन सामाजिक अस्मिताएं और हिन्दी साहित्य

इकाई-3

- भारत की आंतरिक व बाहरी समस्याएं : पर्यावरण प्रदूषण, आतंकवाद, भ्रष्टाचार, साम्प्रदायिकता, सामाजिक एवं आर्थिक विषमता आदि।
- वैश्वीकरण और हिन्दी
- राष्ट्रभाषा और राजभाषा हिन्दी
- भारतीय संस्कृति और हिन्दी
- हिन्दी और आधुनिक जनसंचार माध्यम

इकाई-4

- मीडिया और समाज
- भारतीय राजनीति और लोकतंत्र
- भारतीय विविधता और राष्ट्रीय एकता
- भारत का वैज्ञानिक एवं तकनीकी विकास

इकाई-5

- सभ्यताओं के इतिहास में भारतीय सभ्यता
- भारतीय मीडिया और लोकतंत्र
- जैव विविधता का संरक्षण और भारतीय अर्थव्यवस्था
- अस्मिता की राजनीति और भारतीय लोकतंत्र

संदर्भ पुस्तकें :

हिन्दी के साहित्यिक निबंध- गणपति चंद्र गुप्त

इतिहास और राष्ट्रवाद- वैभव सिंह

राष्ट्रवाद बनाम देशभक्ति : इयत्ता की राजनीति और रवीन्द्रनाथ टैगोर- आशीष नंदी,

अनुवाद- अभय कुमार दुबे

ज्ञान का स्त्रीवादी पाठ- सुधा सिंह

पत्रिकाएं :

आलोचना, तद्भव, प्रतिमान, बहुवचन, पहल

एम.ए. (हिन्दी) चतुर्थ सत्र

क्र.सं.	प्रश्न पत्र	क्रेडिट	विषय	कोड
1	16वाँ	04	छायावादोत्तर काव्य (प्रगतिवाद से समकालीन तक) CHHAYAVADOTTAR KAVYA (PRAGATIVAD SE SAMKALIN TAK)	HIN-524
2	17 वाँ (वैकल्पिक)	04	प्राचीन काव्य (PRACHIN KAVYA)	HIN-571
		04	भक्तिकाव्य (BHAKTI KAVYA)	HIN-572
		04	रीतिकाव्य (RITI KAVYA)	HIN-573
		04	छायावादी काव्य (CHHAYAVADI KAVYA)	HIN-574
		04	समकालीन हिन्दी साहित्य (SAMKALIN HINDI SAHITYA)	HIN-575
		04	स्त्री विमर्श और हिन्दी साहित्य (STRI VIMARSH AUR HINDI SAHITYA)	HIN-576
		04	दलित विमर्श और हिन्दी साहित्य (DALIT VIMARSH AUR HINDI SAHITYA)	HIN-577
		04	आदिवासी विमर्श और हिन्दी साहित्य (ADIVASI VIMARSHS AUR HINDI SAHITYA)	HIN-578
3	18वाँ (वैकल्पिक)	04	हिन्दी आलोचना (HINDI ALOCHANA)	HIN-579
		04	साहित्य का समाजशास्त्र (SAHITYA KA SAMAJSHASTRA)	HIN-580
		04	विचारधारा और साहित्य (VICHARDHARA AUR SAHITYA)	HIN-581
4	19वाँ (वैकल्पिक)	04	हिन्दी और उर्दू साहित्य का तुलनात्मक अध्ययन (HINDI AUR URDU SAHITYA KA TULNATMAK ADHYAYAN)	HIN-582
		04	हिन्दी और बांग्ला साहित्य का तुलनात्मक अध्ययन (HINDI AUR BANGLA SAHITYA KA TULNATMAK ADHYAYAN)	HIN-583

	04	हिन्दी और तेलुगु साहित्य का तुलनात्मक अध्ययन (HINDI AUR TELUGU SAHITYA KA TULNATMAK ADHYAYAN)	HIN-584
	04	हिन्दी और मराठी साहित्य का तुलनात्मक अध्ययन (HINDI AUR MARATHI SAHITYA KA TULNATMAK ADHYAYAN)	HIN-585
5	20वाँ (वैकल्पिक)	04 अनुवाद : सिद्धांत और प्रक्रिया (ANUVAD : SIDDHANT AUR PRAKRIYA)	HIN-586
		04 सृजनात्मक लेखन (SRJANATMAK LEKHAN)	HIN-587
5	दसवाँ	04 लोक साहित्य (LOK SAHITYA)	HIN-520

एम.ए. चतुर्थ सेमेस्टर

16वाँ प्रश्न पत्र

छायावादोत्तर काव्य (प्रयोगवाद से समकालीन तक)

क्रेडिट : 04

कोड : HIN 524

इकाई-1

- छायावादोत्तर कविता : पृष्ठभूमि और परिदृश्य
- अज्ञेय और तारसप्तक
- अज्ञेय की काव्य-यात्रा
- असाध्यवीणा : व्याख्या और मूल्यांकन

इकाई-2

- नई कविता का आत्मसंघर्ष और मुक्तिबोध
- ब्रह्मराक्षस की व्याख्या और आलोचना

इकाई-3

- हिन्दी कविता का साठोत्तरी परिदृश्य और धूमिल
- पटकथा : व्याख्या और आलोचना

इकाई-4

- कुँवर नारायण का काव्य : व्याख्या और आलोचना
- निर्दिष्ट कविताएं : माध्यम, बीज, मिट्टी और खुली जलवायु, चक्रव्यूह, बसंत की एक लहर, नचिकेता, एक अजीब-सी मुश्किल, अमीर खुसरो, आजकल कबीरदास

इकाई-5

- विजयदेव नारायण साही : निर्दिष्ट कविताओं की व्याख्या और आलोचना- घाटी का आखिरी आदमी, अलविदा, अंधेरे गोलार्ध की रात, अस्पताल में, सत की परीक्षा, अब, प्रार्थना : गुरु कबीरदास के लिए, हवामहल
- केदारनाथ सिंह की कविताओं की व्याख्या और आलोचना : नीला पत्थर, आत्मचित्र, जमीन, आवाज, अकाल में सारस, बाघ, कुदाल, आजादी का स्वाद, घोसलों का इतिहास, टाल्सताय और साइकिल

संदर्भ पुस्तकें :

- | | | |
|------------|---|---------------------------------------|
| मुक्तिबोध | : | नई कविता का आत्मसंघर्ष तथा अन्य निबंध |
| अज्ञेय | : | तारसप्तक की भूमिका |
| चंचल चौहान | : | मुक्तिबोध के प्रतीक और बिम्ब |

- अशोक चक्रधर : मुक्तिबोध की समीक्षाई
- अशोक चक्रधर : मुक्तिबोध की कविताई
- नंदकिशोर नवल : आधुनिक हिन्दी कविता का इतिहास
- शम्भुनाथ : कवि की नई दुनिया
- पंकज चतुर्वेदी : जीने का उदात्त आशय, संदर्भ : कुँवर नारायण की कविता
- पुरुषोत्तम अग्रवाल (संपा0) : कुँवर नारायण
- शिवकुमार मिश्र : आधुनिक कविता और युग संदर्भ

एम.ए. चतुर्थ सेमेस्टर

17वाँ प्रश्न पत्र (वैकल्पिक)

प्राचीन काव्य

क्रेडिट : 04

कोड : HIN 571

इकाई-1

- आदिकालीन परिवेश : राजनैतिक, सामाजिक, धार्मिक एवं साहित्यिक
- आदिकालीन साहित्य के विविध रूप एवं प्रवृत्तिया : जैन साहित्य, सिद्ध साहित्य, नाथ साहित्य, रासो साहित्य, ऐहिक शृंगारिक काव्य, स्फुट काव्य

इकाई-2

- जैन साहित्य में स्वयंभू का स्थान, स्वयंभू का जीवन परिचय एवं रचनाएं ('पउमचरिउ'- पचासवीं संधि : अध्ययन और आलोचना)

इकाई-3

- सिद्ध साहित्य में सरहपा का स्थान, सरहपा का जीवन परिचय एवं रचनाएं ('सरह'- दोहा कोश : आरम्भिक 30 दोहे : अध्ययन और आलोचना)
- रासो काव्य में बीसलदेव रासो का स्थान एवं महत्त्व, नरपति नाल्ह का जीवन परिचय और व्यक्तित्व ('बीसलदेव रास'- बारह मासा : अध्ययन और आलोचना)

इकाई-4

- ऐहिक शृंगारिक काव्य और संदेश रासक, अब्दुल रहमान का जीवन परिचय ('संदेश रासक'- द्वितीय प्रक्रम : अध्ययन और आलोचना)

इकाई-5

- नाथ संप्रदाय में गोरखनाथ का स्थान, जीवन परिचय ('गोरखबानी'- सबदी- आरम्भ से 10 दोहे : पद-48 से 58 तक)
- विद्यापति- जीवन परिचय और रचनाएं ('कीर्तिलता'- द्वितीय प्रक्रम : अध्ययन और आलोचना)

संदर्भ पुस्तकें :

हजारीप्रसाद द्विवेदी	:	आदिकाल
हजारीप्रसाद द्विवेदी	:	नाथ सम्प्रदाय
हरिवंश कोछड़	:	अपभ्रंश साहित्य
रामकिशोर	:	अपभ्रंश मुक्तक काव्य और उसका हिन्दी पर प्रभाव
पीताम्बरदत्त बड़धवाल (संपा.)	:	गोरखबानी
हजारीप्रसाद द्विवेदी एवं	:	
विश्वनाथ त्रिपाठी (संपा0)	:	संदेश रासक
शिव प्रसाद सिंह	:	कीर्तिलता और अवहट्ठ भाषा
द्विजराम यादव	:	ब्रजयानी सिद्ध सरहपा

एम.ए. चतुर्थ सेमेस्टर

17वाँ प्रश्न पत्र : वैकल्पिक

भक्तिकाव्य

क्रेडिट : 04

कोड : HIN 572

इकाई-1

- भक्ति आंदोलन की सामाजिक, धार्मिक, दार्शनिक तथा आध्यात्मिक पृष्ठभूमि
- निर्गुण एवं सगुण भक्ति धाराओं का विकास

इकाई-2

- भारतीय लोक जीवन और संत काव्य परम्परा
- प्रमुख संत कवियों की रचनाओं का सांस्कृतिक एवं साहित्यिक मूल्यांकन
- निर्धारित रचनाएं-
 - क. कबीर (कबीर ग्रन्थावली- संपा० पारसनाथ तिवारी)
पद संख्या- 8, 10, 29, 41, 50, 52, 54, 58, 62, 65, 78, 83, 91, 104, 106, 107, 109, 154, 166, 201 कुल पद 20।
रमैनी- 2, 3, 7 कुल 3 रमैनियां।
साखी- प्रेम विरह कौ अंग- कुल 55 साखी।
 - ख. रैदास (परशुराम चतुर्वेदी संपादित संत काव्य संग्रह- में संग्रहीत समस्त 10 पद तथा 3 साखियां)
 - ग. दादू दयाल (परशुराम चतुर्वेदी संपादित संत काव्य संग्रह- में संग्रहीत समस्त 10 पद तथा 50 साखियां)

इकाई-3

- भारतीय प्रेमाख्यानक काव्य
- संत और सूफी मत का वैचारिक अन्तःसंबंध
- निर्धारित रचनाएं :
 - क. मुल्ला दाऊद- चंदायन (मैना सदेश निवेदन खण्ड)
 - ख. कुतुबन- मृगावती (रुकमिनी सदेश निवेदन खंड, बारहमासा खंड)
 - ग. जायसी- पद्मावत (नख शिख खण्ड)

इकाई-4

- वैष्णव आचार्य परंपरा और बल्लभाचार्य
- शुद्धाद्वैत दर्शन एवं पुष्टिमार्गीय भक्ति
- कृष्णकाव्य धारा का सांस्कृतिक तथा साहित्यिक मूल्यांकन
- निर्धारित रचनाएं :
 - क. सूरदास- (पांचवां संवाद) पद संख्या 117-145 सूरसागर सार- (संपा०) डॉ० धीरेन्द्र वर्मा

ख. नन्ददास- 'रासपंचाध्यायी' (पांचवां सर्ग)

ग. रसखान- आलोचनात्मक मूल्यांकन

इकाई-5

- रामभक्ति धारा : स्रोत एवं परम्परा
- रामभक्ति धारा के दार्शनिक एवं भक्तिपरक सिद्धान्त
- रामभक्ति धारा का साहित्यिक एवं सांस्कृतिक मूल्यांकन
- निर्धारित रचनाएं :
 - क. विनयपत्रिका- व्याख्या एवं आलोचनात्मक अध्ययन
(पद संख्या- 85, 87, 88, 90, 95, 96, 103, 105, 111, 115, 124, 160, 162, 163, 168, 169, 174, 198, 234, 245, कुल पद 20)
 - रामचरितमानस- आलोचनात्मक मूल्यांकन
- भक्तिकाव्य का समग्र मूल्यांकन
- परवर्ती साहित्य को भक्ति काव्य का अवदान

संदर्भ पुस्तकें :

रामचन्द्र शुक्ल	:	त्रिवेणी
नामवर सिंह	:	दूसरी परम्परा की खोज
प्रेमशंकर	:	भक्तिकाव्य का समाजशास्त्र
रामस्वरूप चतुर्वेदी	:	भक्तिकाव्य यात्रा
आशा गुप्ता	:	भक्ति सिद्धान्त
ब्रजेश्वर वर्मा	:	सूरदास
रामचंद्र तिवारी	:	कबीर मीमांसा
हजारीप्रसाद द्विवेदी	:	कबीर
रामचंद्र शुक्ल	:	तुलसीदास
विजयदेव नारायण साही	:	जायसी
शिवकुमार मिश्र	:	भक्तिकाव्य और लोकजीवन
रामचंद्र शुक्ल	:	हिन्दी साहित्य का इतिहास
अतहर अब्बास रिजवी	:	सूफीज्म इन इण्डिया
रामविलास शर्मा	:	भारतीय सौन्दर्यबोध और तुलसीदास
अजय तिवारी (संपा०)	:	तुलसी का महत्त्व
रमेश कुंतल मेघ	:	तुलसी आधुनिक वातायन से
धर्मवीर	:	कबीर के आलोचक
धर्मवीर	:	कबीर के कुछ और आलोचक
धर्मवीर	:	कबीर : खसम खुशी क्यों होय ?
कुँवरपाल सिंह (संपा०)	:	भक्ति आंदोलन और इतिहास और संस्कृति
सुधा सिंह (संपा०)	:	मध्यकालीन साहित्य विमर्श
कुंमकुम संगारी	:	मीराबाई और भक्ति की आध्यात्मिक अर्थनीति
गोपेश्वर सिंह	:	भक्ति आंदोलन और काव्य

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रीतिकाव्य

क्रेडिट : 04
कोड : HIN 578

इकाई-1

- रीतिकाल का काल निर्धारण
- रीति साहित्य का स्वरूप एवं व्याख्या/भक्ति, वीर, नीति एवं वैराग्य की दृष्टि से
- रीति साहित्य के भेद और प्रमुख कवि-
 1. रीतिबद्ध
 2. रीति सिद्ध
 3. रीति मुक्त
- 4. रीति और भक्ति 5. रीति और नीति 6. रीति और वीर काव्य

इकाई-2

- रीति बद्ध कवियों का काव्यात्मक परिचय
- रीति सिद्ध कवियों का काव्यात्मक परिचय
- रीति मुक्त कवियों का काव्यात्मक परिचय
- प्रमुख कवियों की चुनी कविताओं की व्याख्या और आलोचना
केशव, बिहारी, घनानन्द, मतिराम, सेनापति

इकाई-3

रीतिकालीन कवियों का आचार्यत्व

- अलंकार की मौलिक उद्भावना
- रस की मौलिक उद्भावना
- छन्द की मौलिक उद्भावना

इकाई-4

- नायक/नायिका भेद/नख शिख वर्णन
- कवि प्रसिद्धियाँ एवं काव्य रूढ़ियाँ
- रीतिकालीन कवियों की मौलिक देन

इकाई-5

- रीतिकालीन कविता का सामाजिक परिप्रेक्ष्य
- रीतिकालीन कविता का आर्थिक परिप्रेक्ष्य
- रीतिकालीन कविता का धार्मिक परिप्रेक्ष्य

- रीतिकाल और दरबार की कविता
- दरबारी रीतिकाव्य
- रीतिकाव्य संग्रह संपादक- विजयपाल सिंह (निर्धारित प्रत्येक कवि के आरंभिक दस पद)

संदर्भ पुस्तकें :

डॉ० नगेन्द्र	:	रीतिकाव्य की भूमिका
प्रो० रामस्वरूप चतुर्वेदी	:	मध्यकालीन काव्यभाषा
डॉ० हीरालाल दीक्षित	:	आचार्य केशवदास
डॉ० विजयपाल सिंह	:	केशव का आचार्यत्व
डॉ० कृष्णशंकर शुक्ल	:	केशव की काव्यकला
डॉ० हरिवंशलाल शर्मा	:	बिहारी और उनका साहित्य
जगन्नाथ दास रत्नाकर	:	कविवर बिहारी
रमेश कुंतल मेघ	:	आलोचिन्तना को होने दो- केन्द्र अपसारी
रमेश कुंतल मेघ	:	अबकी खातिर मुनासिब कार्यवाहियाँ
रामदेव शुक्ल	:	घनानन्द और उनका काव्य
त्रिवेणी दत्त शुक्ल	:	मतिराम की काव्यभाषा
पं० उमाशंकर शुक्ल	:	कवित्त रत्नाकर
जयभगवान गोपाल	:	रीतिकाल का पुनर्मूल्यांकन
डॉ० सत्यप्रकाश मिश्र	:	रीतिकाव्य प्रकृति एवं स्वरूप
डॉ० भगवानदास तिवारी	:	रीतिकालीन हिन्दी वीर काव्य
डॉ० बच्चन सिंह	:	रीतिकालीन कवियों की प्रेम व्यंजना
सुधीश पचौरी	:	रीतिकाल : सेक्सुअलिटी का उत्सव (रीतिकाल में फूको विचरण)

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छायावादी काव्य

क्रेडिट : 04

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इकाई-1

- छायावाद : अर्थ, प्रयोग और स्वरूप
- छायावाद : पुनर्जागरण की चेतना का सूक्ष्म स्वरूप
- छायावाद की सौन्दर्य चेतना

इकाई-2

- छायावाद : शक्ति काव्य
- छायावाद के आलोचक- नंददुलारे वाजपेयी, रामविलास शर्मा, नामवर सिंह, रामस्वरूप चतुर्वेदी, रमेश चन्द्र शाह, देवराज
- छायावाद के प्रमुख कवियों का आलोचनात्मक अध्ययन- प्रसाद, पंत, निराला, महादेवी वर्मा

इकाई-3

- छायावाद के महाकाव्य- 'कामायनी' और 'चित्रलेखा'
- प्रसाद- प्रसाद की रचनाएं, प्रसाद का जीवन दर्शन, समरसता और आनंदवाद
- निर्धारित रचनाएं- आंसू, लहर (बीती विभावरी जाग री, ले चल मुझे भुवाला देकर, पेशोला की प्रतिध्वनि, प्रलय की छाया)
- कामायनी : व्याख्या एवं आलोचनात्मक अध्ययन

इकाई-4

- निराला का जीवन वृत्त
- निराला की क्रांतिकारी चेतना
- मुक्त छंद और निराला
- निर्धारित रचनाएं- जुही की कली, जागो फिर एक बार (1, 2), तुलसीदास, सरोज स्मृति (राग विराल- संकलन- रामविलास शर्मा)

इकाई-5

- पंत का जीवन दर्शन
- पंत की काव्य यात्रा- प्रकृति चित्रण, प्रगतिवाद, मानवतावाद
- निर्धारित रचनाएं- प्रथम रश्मि, बादल, मौन निमंत्रण, निष्ठुर परिवर्तन, मानव (आधुनिक कवि - पंत- हिन्दी साहित्य सम्मेलन, प्रयाग)

- महादेवी की कविता में रहस्यात्मक प्रवृत्ति, गीतितत्व
- निर्धारित रचनाएं- जो तुम आ जाते एक बार, विरह का जलजात जीवन, मैं नीर भरी दुःख की बदली, मधुर मधुर-मेरे दीपक जल (महादेवी संचयन : संपा0 निर्मला जैन)
- छायावाद युग का गद्य : आलोचनात्मक परिचय- तितली, काव्य कला और अन्य निबंध (प्रसाद)

चतुरी चमार, पंत और पल्लव, प्रबन्ध पद्म, प्रबंध प्रतिमा (निराला)

छायावाद : पुनर्मूल्यांकन (पंत)

शृंखला की कड़िया (महादेवी)

संदर्भ पुस्तकें

नामवर सिंह	:	छायावाद
रमेशचंद्र शाह	:	छायावाद : पुनर्मूल्यांकन
देवराज	:	छायावाद : उत्थान, पतन, पुनर्मूल्यांकन
रघुवंश	:	साहित्य का नया परिप्रेक्ष्य
रामस्वरूप चतुर्वेदी	:	हिंदी कविता यात्रा : रत्नाकर से रघुवीर सहाय तक
नंददुलारे वाजपेयी	:	जयशंकर प्रसाद
गजानन माधव मुक्तिबोध	:	कामायनी : एक पुनर्विचार
रामस्वरूप चतुर्वेदी	:	कामायनी का पुनर्मूल्यांकन
गिरिजा राय	:	कामायनी की आलोचना प्रक्रिया
रामविलास शर्मा	:	निराला की साहित्य साधना, तीन-खण्ड
दूधनाथ सिंह	:	निराला : आत्महंता आस्था
नगेन्द्र	:	सुमित्रानन्दन पंत
शांतिप्रिय द्विवेदी	:	ज्योति विहग
परमानन्द श्रीवास्तव (संपा0)	:	महादेवी
दूधनाथ सिंह	:	महादेवी
गोपाल प्रधान	:	छायावाद युगीन साहित्यिक विवाद
प्रभाकर श्रोत्रिय	:	जयशंकर प्रसाद की प्रासंगिकता

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कोड : HIN 575

इकाई-1

- समकालीन : अर्थ, प्रसार, परिवेश और संदर्भ
 - क. 'समकालीन' का अर्थ, प्रसार, परिवेश और संदर्भ
 - ख. आधुनिकता और समकालीनता
 - ग. स्वातंत्रता का मूल्यबोध
 - घ. स्वतंत्र्योत्तर भारत में हिंदी प्रदेश की राजनैतिक, सामाजिक, आर्थिक और सांस्कृतिक सक्रियताएं और हिन्दी साहित्य पर पड़ने वाले प्रभाव
 - समकालीन कविता की मुख्य प्रवृत्तियाँ
 - समकालीन कविता और रघुवीर सहाय
 - समकालीन कविता और धूमिल
- निर्धारित रचनाएं/रचनाकार : व्याख्या और आलोचना
काव्य : रघुवीर सहाय- अकाल, अधिनायक (रघुवीर सहाय : प्रतिनिधि कविताएं, राजकमल पेपर बैक्स)
सुदामा पाण्डेय 'धूमिल'- भाषा की रात
केदारनाथ सिंह- सन् '46 को पार करते हुए (केदारनाथ सिंह : प्रतिनिधि कविताएं, राजकमल पेपर बैक)
अशोक वाजपेयी- पथहारा वक्तव्य
राजेश जोशी- ईष्ट और बिम्ब
मंगलेश डबराल- संगतकार
वीरेन डंगवाल- हमारा समाज

इकाई-2

- समकालीन हिंदी कहानी की मुख्य प्रवृत्तियां और कहानी आंदोलन
- समकालीन हिन्दी उपन्यास : झीनी-झीनी बीनी चदरिया- अब्दुल बिस्मिल्ला, गायब होता देश- रणेन्द्र
- कहानी- तिरिया चरित्तर- शिवमूर्ति, जंगल का दाह- स्वयं प्रकाश, चिट्ठी- अखिलेश, फैसला- मैत्रेयी पुष्पा

इकाई-3

नाटक एवं अन्य गद्य विधाएं

- समकालीन हिंदी रंगमंच और आधुनिक नाटक
- समकालीन साहित्य में संस्मरण, यात्रा-वृत्तान्त, निबंध, जीवनी व आत्मकथा एवं अन्य गद्य विधाओं की स्थिति, विधाओं में संरचनागत परिवर्तन और विधाओं का अंतर्गुफन
- विशेष अध्ययन
नाटक- कोर्ट मार्शल (स्वदेश दीपक)
आत्मकथा- मुर्दाहिया (तुलसीराम)

इकाई-4

- समकालीन विमर्श और हिंदी आलोचना
- संरचनावाद एवं उत्तर-संरचनावाद
- आधुनिकता और उत्तर-आधुनिकतावाद

इकाई-5

- औपनिवेशिकता और उत्तर-औपनिवेशिकता
स्त्री, दलित और आदिवासी विमर्श

संदर्भ पुस्तकें

अज्ञेय	:	आत्मनेपद, सर्जना और संदर्भ
रघुवीर सहाय	:	लिखने का कारण
नामवर सिंह	:	कविता के नये प्रतिमान
मुक्तिबोध	:	नयी कविता का आत्म संघर्ष
मलयज	:	कविता से साक्षात्कार
मार्कण्डेय	:	कहानी की बात
देवीशंकर अवस्थी	:	नयी कहानी : संदर्भ और प्रकृति
राजेन्द्र यादव	:	कहानी : शिल्प और संवेदना
रामदरश मिश्र	:	हिंदी उपन्यास : एक अन्तर्यात्रा
निर्मला जैन	:	आधुनिक हिन्दी काव्य : रूप और संरचना
नेमिचंद जैन	:	रंगदर्शन
सुरेश शर्मा	:	रघुवीर सहाय का कविकर्म
हुकुमचन्द राज्यपाल	:	समकालीन बोध और धूमिल का काव्य
परमानन्द श्रीवास्तव	:	समकालीन कविता का यथार्थ
जे०बी० कृपलानी	:	गांधी : जीवन और चिन्तन
फ्रायड	:	मनोविश्लेषण
राहुल सांकृत्यायन	:	कार्ल मार्क्स
विजय मोहन सिंह	:	आज की कहानी
राजेन्द्र कुमार	:	साहित्य में सृजन के आयाम और विज्ञानवादी दृष्टि

एम.ए. चतुर्थ सेमेस्टर

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स्त्री विमर्श और हिन्दी साहित्य

क्रेडिट : 04

कोड : HIN 576

इकाई-1

- नारीवाद एवं स्त्री विमर्श : सिद्धान्त और अवधारणाएँ
- नारीवाद और जेण्डर-विमर्श
- स्त्रीमुक्ति आंदोलन/नारीवादी आंदोलन : ऐतिहासिक विकास, प्रमुख मुद्दे
- मार्क्सवादी चिंतन में स्त्री-मुक्ति की अवधारणा
- स्त्रीवादी/स्त्रीमुक्ति की समकालीन (उत्तर-आधुनिक, उत्तर-औपनिवेशिक) अवधारणाएँ

इकाई-2

- मध्यकालीन साहित्य में स्त्री-स्वर
- नवजागरण कालीन साहित्य में स्त्री-प्रश्न और स्त्री लेखन
- स्त्री पत्रकारिता- प्रमुख पत्रिकाएँ, मुख्य प्रश्न, आधुनिक स्त्री वैचारिकी का निर्माण
- प्रगतिशील साहित्य में स्त्री-मुक्ति का प्रश्न
- समकालीन लेखन में स्त्री की उपस्थिति और उनका साहित्य

इकाई-3

- कविता में स्त्री और स्त्री की कविता
- स्त्रीवादी कविता की काव्यभाषा, मुहावरा
- लेकगीतों में स्त्री
- स्त्रीवादी काव्य की अंतर्वस्तु और विचारधारा
- निर्धारित कविताएँ- (व्याख्या एवं आलोचनात्मक अध्ययन हेतु) आजाद (अर्चना वर्मा), मैं हूँ एक स्त्री (शुभ्रा) सात भाइयों के बीच चम्पा, हाकी खेलती लड़कियाँ (काल्यायनी), रात नींद सपने और स्त्री, सच का दर्पण (सविता सिंह), स्त्रियाँ, एक औरत का पहला राजकीय प्रवास (अनामिका),

पाठ्यपुस्तक :

- 'बीसवीं सदी का हिंदी महिला लेखन : उत्तरार्द्ध की कविताएँ', में संकलित संपा० अनामिका, साहित्य अकादमी, नई दिल्ली

इकाई-4

- कथा की औरतें और औरत की उत्तरकथा
- स्त्री की आत्मकथा : आत्म के साथ समाज की कथा

- स्त्री जीवन के संघर्ष का महाख्यान : स्त्री का उपन्यास लेखन
- निर्धारित पाठ (आलोचनात्मक अध्ययन एवं व्याख्या हेतु)-
कहानियाँ- आजादी शम्भोजान की- कृष्णा सोबती, कील और कसक- मन्नू भंडारी,
मीरा नाची- मृदुला गर्ग, लड़कियाँ- ममता कालिया, फॉस- मनीषा कुलश्रेष्ठ
उपन्यास- इदन्नमम- मैत्रेयी पुष्पा
आत्मकथा- अन्या से अनन्या- प्रभा खेतान

इकाई-5

- स्त्रीवादी लेखन की वैचारिकी का विकास
- समाज और पुरुष को देखने की स्त्री-दृष्टि
- स्त्री-वैचारिकी में धर्म-स्त्री की स्वाधीनता को बाँधने वाली जंजीर
- निर्धारित पाठ (व्याख्या एवं आलोचनात्मक अध्ययन हेतु)-
सीमंतनी उपदेश- संपा० धर्मवीर, शृंखला की कड़ियाँ- महादेवी वर्मा

संदर्भ पुस्तकें :

साधना आर्य, निवेदिता मेनन,	:	नारीवादी राजनीति : संघर्ष एवं मुद्दे
जिनी लोकनीता	:	नारीवादी सिद्धांत और व्यवहार
शुभ्रा परमार	:	भारत में स्त्री असमानता : एक विमर्श
गोपा जोशी	:	स्त्रियों की पराधीनता
जॉन स्टुअर्ट मिल	:	स्त्रीलिंग निर्माण
मल्लिका सेनगुप्त	:	स्त्री उपेक्षिता
सीमोन द बोउवा	:	अस्मिता विमर्श का स्त्री स्वर
अर्चना वर्मा	:	स्त्री विमर्श की उत्तर गाथा
अनामिका	:	स्त्री विमर्श का लोकपक्ष
अनामिका	:	ज्ञान का स्त्रीवादी पाठ
सुधा सिंह	:	स्त्री अस्मिता : साहित्य और विचारधारा
संपा० सुधा सिंह	:	हिंदी नवजागरण और स्त्री अस्मिता
सुनंदा पराशर	:	हिंदी साहित्य का आधा इतिहास
सुमन राजे	:	चारु गुप्ता
स्त्रीत्व से हिंदुत्व तक	:	स्त्री : परंपरा और आधुनिकता
संपा० राजकिशोर	:	स्त्री चिंतन की चुनौतियाँ
रेखा कस्तवार	:	बाजार के बीच : बाजार के खिलाफ
प्रभा खेतान	:	स्त्री विमर्श की कहानियाँ
संपा० लालसा यादव	:	

एम.ए. चतुर्थ सेमेस्टर
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दलित विमर्श और हिन्दी साहित्य

क्रेडिट : 04

कोड : HIN 577

इकाई-1

वैचारिकी एवं सौन्दर्यशास्त्र

- दलित विमर्श एवं साहित्य के वैचारिक व दार्शनिक स्रोत : आजीवक परंपरा एवं संत आन्दोलन, स्वामी अछूतानन्द हरिहर का आदिधर्मी आन्दोलन, अम्बेडकर और कांशीराम के आन्दोलन
- उत्तर आंबेडकर दलित चिंतन : प्रमुख संदर्भ बिन्दु
- दलित साहित्य की अवधारणा, उद्भव एवं विकास की परम्परा, समाजशास्त्र, सौन्दर्य दृष्टि, अध्ययन और आलोचना
- हिन्दी साहित्य में दलित : निराला, प्रेमचंद, नागार्जुन और राहुल सांकृत्यायन का दलित विषयक लेखन
- दलित प्रश्न और हिन्दुवाद, गांधीवाद और मार्क्सवाद
- दलित साहित्य एवं चिंतन में स्त्री और दलित स्त्री
- स्वतंत्र भाषा एवं सौन्दर्यशास्त्र का प्रश्न

इकाई-2

कविताएँ

- हिन्दी दलित कविता की पृष्ठभूमि अस्मिता का संघर्ष, विषयवस्तु, इतिहास बोध, सौंदर्य दृष्टि और काव्य भाषा एवं शिल्प
- व्याख्या और आलोचना हेतु निर्धारित कविताएँ :
ओम प्रकाश वाल्मीकि : पेड, ठाकुर का कुआँ, ज्वालामुखी, शम्बूक का कटा सिर, तनी मुट्ठीयाँ, सदियों का संताप, मुट्ठी भर चावल, आदिम रूप, जाति, एक और युद्ध, लावा, अब और नहीं, शब्द झूठ नहीं बोलते, मलखान सिंह- मुझे गुस्सा आना है, हमारे गाव में
जयप्रकाश लीलवन- कामरेड से बातचीत, जनपथ
श्योराज सिंह बेचैन- बहनों से बोलो, चमार की चाय, नीच नहीं अलग जाति हैं हम
कँवल भारती- जब तक व्यवस्था जीवित है
कावेरी- प्रेरणा, खाइयाँ
स्वामी अछूतानंद हरिहर- मनु के प्रति
हीरा डोम- अछूत की शिकायत

इकाई-3

उपन्यास

- दलित उपन्यास- संदर्भ और विषय वस्तु की नवीनता, संवेदना और शिल्प का

- वैशिष्ट्य, सामाजिक और सांस्कृतिक सरोकार, औपनिवेशिक भाषा एवं शिल्प
- व्याख्या और आलोचना हेतु निर्धारित उपन्यास
विजय सौदाई : दलित

इकाई-4

कहानियाँ

- दलित कहानी : उद्भव और विकास, संवेदना एवं कथावस्तु की नवीनता, कथा भाषा एवं शिल्पगत वैशिष्ट्य
- व्याख्या और आलोचना हेतु निर्दिष्ट कहानियाँ- ओमप्रकाश वाल्मीकि- घुसपैठिये, श्योराज सिंह बेचैन- रावण, मोहनदास नैमिषराय- अपना गाँव, सूरजपाल चौहान- बदबू, बी०एल० नैय्यर- चतुरी चमार की चाट, प्रेम कपाडिया- हरिजन, विपिन कुमार- कंधा, अजय नावरिया- पटकथा, प्रेमचंद- कफ़न
- नाटक- सुनो कामरेड (केवल आलोचना)

इकाई-5

आत्मकथाएं (केवल आलोचना)

- हिन्दी दलित आत्मवृत्त/आत्मकथाएँ- दलित सामाजिक, सांस्कृतिक एवं आर्थिक जीवन के दस्तावेज
- आलोचनात्मक अध्ययन हेतु निर्दिष्ट आत्मकथाएँ- ओमप्रकाश वाल्मीकि- जूठन, कौशल्या नंदिनी बैसंत्री- दोहरा अभिशाप, श्योराज सिंह बेचैन- मेरा बचपन मेरे कंधों पर, धर्मवीर- मेरी पत्नी और भेड़िया, तुलसीराम- मणिकर्णिका
- हिन्दी की दलित पत्रकारिता

संदर्भ पुस्तकें :

कँवल भारती	:	दलित विमर्श की भूमिका
कँवल भारती	:	दलित कविता का संघर्ष
कँवल भारती	:	स्वामी अछूतानन्द 'हरिहर' और हिन्दी नवजागरण
रत्नकुमार सांभरिया	:	मुंशी प्रेमचंद और दलित समाज
रजतरानी मीनू	:	हिन्दी दलित कथा साहित्य : अवधारणाएँ और विधाएँ
श्योराज सिंह 'बेचैन'	:	हिन्दी की दलित पत्रकारिता पर पत्रकार अम्बेडकर का प्रभाव
श्योराज सिंह 'बेचैन'	:	उपन्यास साहित्य में दलित समस्या और समाधान
श्योराज सिंह 'बेचैन'	:	उत्तर सदी के हिन्दी उपन्यासों में दलित विमर्श
धर्मवीर	:	दलित चिन्तन का विकास : अभिशप्त चिंतन से इतिहास चिंतन की ओर
धर्मवीर	:	महान आजीवक : कबीर, रैदास और गोसाल
धर्मवीर	:	हिन्दी की आत्मा
ओमप्रकाश वाल्मीकि	:	दलित साहित्य का सौन्दर्यशास्त्र

पत्रिकाएँ :

हंस (दलित साहित्य विशेषांक : सत्ता विमर्श और दलित, विशेषांक, अंक-58), बहुरि नहीं आवना, कथाक्रम (दलित विशेषांक)

एम.ए. चतुर्थ सेमेस्टर

17वाँ प्रश्न पत्र (वैकल्पिक)

आदिवासी विमर्श और हिन्दी साहित्य

क्रेडिट : 04

कोड : HIN 578

इकाई-1

आदिवासी की अवधारणा : एक परिचय

- आदिवासी की अवधारणा से सम्बंधित अन्य अवधारणाओं का परिचय
- भारतीय संविधान निर्मात्री सभा की बहसों एवं भारतीय संविधान के अनुसार आदिवासी
- यू0एन0ओ0 रिपोर्ट के अनुसार आदिवासी
- विभिन्न विद्वानों द्वारा दी गई आदिवासी की परिभाषाएं

इकाई-2

भारतीय आदिवासी समाज : ऐतिहासिक, भौगोलिक व सांस्कृतिक परिचय

- भारतीय आदिवासी समुदाय : क्षेत्र एवं राज्यवार उपस्थिति
- भारतीय आदिवासी समुदाय : एक सांस्कृतिक विश्लेषण
- जंगल क्षेत्रीय आदिवासी समुदाय एवं संस्कृतियां
- दुर्गम क्षेत्रीय (पहाड़ी, दर्रे व दलदली क्षेत्र) आदिवासी समुदाय एवं संस्कृतियां
- मैदानी क्षेत्रीय आदिवासी समुदाय एवं संस्कृतियां
- शहरी माध्यमवर्गीय आदिवासी वर्ग एवं उसकी संस्कृति
- समग्रतः आदिवासी दर्शन एवं संस्कृति

इकाई-3

आदिवासी साहित्य : अवधारणा एवं परंपरा

- आदिवासी साहित्य की अवधारणा : एक परिचय (आदिवासी रचनाकारों द्वारा रचित साहित्य, गैर-आदिवासी रचनाकारों द्वारा रचित साहित्य एवं आदिवासी दर्शन आधारित साहित्य)
- आदिवासी साहित्य : इतिहास एवं परम्परा (आदिवासी रचनाकारों द्वारा रचित साहित्य, गैर आदिवासी रचनाकारों द्वारा रचित साहित्य)
- आदिवासी कला एवं सौन्दर्यबोध
- आदिवासी भाषा चिंतन- के0एम0 मैत्री, मोतीरावण कंगाली (गौंडी व्याकरण), टेकसिंह टेकाम, जी0एन0 देवी

इकाई-4

आदिवासी साहित्य : व्याख्या एवं आलोचना हेतु निर्धारित पाठ

- कविताएं- कथन शालवन के अंतिम शाल की (रामदयाल मुंडा) स्टेज (वाहरु सोनवने), अगर तुम मेरी जगह होते (निर्मला पुतुल), एकलव्य से संवाद (अनुज लुगुन), जब आदिवासी गाता है (जमुना बिन्नी), पाषाण पटिया (सावित्री बड़ाइक), नदी, पहाड़ और बाजार (जसिंता केरकेट्टा), प्रश्नों के तहखानों से (महादेव टोप्पो), कविताओं वाली नदी (वंदना टेटे), शिकारी दल अब आते हैं (उज्ज्वला ज्योति तिग्गा), नहीं तो घास भर जाएगा (सुषमा असुर), पहाड़ी स्त्री का दुःख (स्नेहलता नेगी)
- कहानियाँ- माँ (रोज केरकेट्टा), बड़ी नदी छोटी नदी (पीटर पॉल एक्का), धरती लहराएगी (एलिस एक्का), साक्षी है पीपल (जोराम नाबाम यालम), रहना नहीं देश बिराना है (विजय सिंह मीना), ठंडी गदूली (चरणसिंह पथिक)
- उपन्यास- धूनी तपे तीर (हरिराम मीना), माटी माटी अरकाटी (अश्वनी कुमार पंकज)
- आत्मकथा- जंगल से परे (एस0 रथनामल)
- नाटक- कालीबाई (प्रभात)

इकाई-5

आदिवासी विमर्श एवं आलोचना

- डॉ0 रामदयाल मुंडा का आलोचना कर्म (आदि धरम)
- डॉ0 वीरभारत तलवार का आलोचना कर्म (झारखंड के आदिवासियों के बीच)
- हरिराम मीणा का आलोचना कर्म (आदिवासी दुनियाँ)
- मोती रावण कंगाली (गोंडवाना की सांस्कृतिक पृष्ठभूमि)
- वंदना टेटे का आलोचना कर्म (आदिवासी दर्शन व आदिवासी साहित्य)
- डॉ0 गंगासहाय मीना का आलोचना कर्म (आदिवासी साहित्य चिंतन की भूमिका)
- अश्वनी कुमार पंकज का आलोचना कर्म (मरंग मोमके जयपाल सिंह मुंडा/प्राथमिक आदिवासी विमर्श)

संदर्भ पुस्तकें :

वंदना टेटे

वंदना टेटे

वंदना टेटे

टी0सी0 डामोर एवं धनपत सिंह

ग्लैडसन डुंगडुंग

: आदिवासी साहित्य, परम्परा और प्रयोजन

: आदिवासी दर्शन और साहित्य

: वाचिकता : आदिवासी दर्शन, साहित्य और सौंदर्यबोध

: आदिवासी भारत- जैसा देखा,

: संविधान की पांचवीं अनुसूची और आदिवासी अधिकार

- ग्लैडसन डुंगडुंग : सुप्रीम कोर्ट के फैसले और आदिवासी अधिकार
- गंगा सहाय मीणा : आदिवासी साहित्य विमर्श
- गंगा सहाय मीणा : आदिवासी चिंतन की भूमिका
- हरिराम मीणा : आदिवासी दुनिया
- रामदयाल मुंडा एवं रतनसिंह मानकी : आदि धरम, आदिवासियों की धार्मिक आस्थाएं
- रामदयाल मुंडा एवं रतनसिंह मानकी : आदिवासी अस्तित्व और झारखंडी अस्मिता के सवाल
- जयपालसिंह मुंडा : लो बिर सेंदरा
- रमणिका गुप्ता : आदिवासी कौन ?
- वीरभारत तलवार : झारखंड के आदिवासियों के बीच
- वीरभारत तलवार : झारखंड आंदोलन के दस्तावेज
- अश्विनी कुमार पंकज : मरंग गोमके जयपाल सिंह मुंडा
- : प्राथमिक आदिवासी विमर्श

पत्रिकाएं :

अरावली उद्घोष, आदिवासी साहित्य, झारखंडी भाषा साहित्य संस्कृति अखड़ा

एम.ए. चतुर्थ सेमेस्टर

18वाँ प्रश्न पत्र (वैकल्पिक)

हिंदी आलोचना

क्रेडिट : 04

कोड : HIN 579

इकाई-1

- आरम्भिक आलोचनात्मक प्रयास: एक परिचय
- भारतेन्दु युग-भारतेंदु, प्रेमघन और बालकृष्ण भट्ट की आलोचनात्मक दृष्टि
- द्विवेदी युग-महावीर प्रसाद द्विवेदी, मिश्र-बन्धु, कृष्णबिहारी मिश्र, पद्मसिंह शर्मा, लाला भगवानदीन, रामचंद्र शुक्ल की आलोचनात्मक दृष्टि

इकाई-2

- शुक्लानुवर्ती और शुक्लोत्तर आलोचक : एक सामान्य परिचय
- शुक्लानुवर्ती आलोचक- डॉ० नगेन्द्र, विश्वनाथ प्रसाद मिश्र
- शुक्लोत्तर आलोचक- नन्ददुलारे बाजपेयी, हजारी प्रसाद द्विवेदी,

इकाई-3

- मार्क्सवादी आलोचना : एक सामान्य परिचय
- प्रगतिशील लेखक संघ का जन्म और उसका घोषणा पत्र
- शिवदान सिंह, राहुल सांकृत्यायन, अमृत राय
- रामविलास शर्मा, नामवर सिंह, विश्वनाथ त्रिपाठी, शिवकुमार मिश्र, मैनेजर पाण्डेय

इकाई-4

- नयी कविता का दौर और हिंदी आलोचना : एक सामान्य परिचय
- अज्ञेय, रामस्वरूप चतुर्वेदी, धर्मवीर भारती, विजयदेवनारायण साही, लक्ष्मीकान्त वर्मा, मलयज, रमेशचन्द्र शाह

इकाई-5

- समकालीन हिंदी आलोचना और नये विमर्श
- हिंदी नवजागरण पर पुनर्विचार
- स्वातंत्र्योत्तर हिंदी साहित्य की प्रवृत्तियों पर बहस
- पाठ की रणनीतियाँ और पुनर्पाठ
- उत्तरवादी सिद्धान्त और आलोचना
- साहित्य के आलोचनात्मक कैनन (मानमूल्य)
- स्त्री विमर्श और आलोचना
- दलित विमर्श और आलोचना

● आलोचना का अन्तः अनुशासनिक क्षेत्र
संदर्भ पुस्तकें

भगवत्स्वरूप मिश्र : हिंदी आलोचना : उद्भव एवं विकास

रामदरश मिश्र : हिंदी समीक्षा : स्वरूप और संदर्भ

विश्वनाथ त्रिपाठी : हिंदी आलोचना

नंदकिशोर नवल : आधुनिक हिंदी आलोचना का विकास

रामविलास शर्मा : आचार्य रामचंद्र शुक्ल और हिंदी आलोचना

निर्मला जैन : हिंदी आलोचना की बीसवीं सदी

हुकुमचन्द राजपाल : समकालीन हिंदी समीक्षा

रमेश कुमार : नवजागरण और हिंदी आलोचना

पुष्पिता अवस्थी : आधुनिक हिंदी काव्यआलोचना के 100 वर्ष

मैनेजर पाण्डेय : आलोचना की सामाजिकता

सं० कमलाप्रसाद, सुधीर रंजन सिंह, राजेंद्र शर्मा : नामवर सिंह : आलोचना की
दूसरी परंपरा

शिवकुमार मिश्र : हिंदी आलोचना की परंपरा और रामचंद्र शुक्ल

वीरेंद्र सिंह : आधुनिक साहित्य

निर्मला जैन : आधुनिक साहित्य

नामवर सिंह : इतिहास और आलोचना

देवीशंकर अवस्थी : आलोचना का द्वन्द्व

बच्चन सिंह : आधुनिक हिंदी आलोचना के बीज शब्द

शिवकुमार मिश्र : यथार्थवाद

रामविलास शर्मा : परम्परा का मूल्यांकन

कृष्णदत्त पालीवाल : हिंदी आलोचना के नए वैचारिक सरोकार

राजेन्द्र कुमार, सं० : आलोचना का विवेक

एम.ए. चतुर्थ सेमेस्टर
18वाँ प्रश्न पत्र (वैकल्पिक)
साहित्य का समाजशास्त्र

क्रेडिट : 04

कोड : HIN 580

इकाई-1

साहित्य के समाजशास्त्र की भूमिका

- साहित्य और समाज का अन्तर्सम्बंध
- साहित्य के समाजशास्त्रीय अध्ययन की जरूरत एक स्वतंत्र साहित्य विधा का विकास
- साहित्य के समाजशास्त्र के इतिहास : समाजशास्त्रीय दृष्टि से साहित्य के अध्ययन की परम्पराएं-पाश्चात्य एवं भारतीय परिप्रेक्ष्य

इकाई-2

साहित्य के प्रमुख समाजशास्त्री और उनकी अवधारणाएं

- पाश्चात्य समाजशास्त्री : अडोल्फ तेन; लियो लावेंथल; लूसिए गोल्डमान; रेमण्ड विलियम्स
- भारतीय समाजशास्त्री : डी०डी० कोसम्बी; पी०सी० जोशी; श्यामाचरण दुबे; बी० आर० अम्बेडकर

इकाई-3

साहित्य के समाजशास्त्र की प्रमुख दृष्टियाँ और पद्धतियाँ :

- साहित्य के समाजशास्त्र की प्रमुख दृष्टियाँ : साहित्य में समाज की खोज; समाज में साहित्य और साहित्यकार की स्थिति; साहित्य और पाठक समुदाय : लोकप्रिय साहित्य का समाजशास्त्र, साहित्य और जन-संचार माध्यम
- साहित्य के समाजशास्त्र की प्रमुख पद्धतियाँ : विधेयवाद, अनुभववाद, संरचनावाद, मार्क्सवाद और अस्मितावाद

इकाई-4

विधाओं का समाजशास्त्र : साहित्यिक विधाओं की उत्पत्ति और विकास का समाजशास्त्रीय परिप्रेक्ष्य

- उपन्यास का समाजशास्त्र- भारत में उपन्यास का उदय और विकास; भारतीय उपन्यास की भारतीयता, उपन्यास और लोकतंत्र
- हिन्दी के प्रमुख उपन्यासों का समाजशास्त्रीय विश्लेषण : गोरा, गोदान, रह गई दिशाएँ इसी पार (संजीव)

- **कविता के समाजशास्त्रीय अध्ययन की चुनौतियाँ** : हिन्दी कविता का समाजशास्त्रीय विश्लेषण : प्राचीन काव्य; भक्तिकाव्य; रीतिकाव्य; आधुनिक कविता, समकाली कविता

इकाई-5

समकालीन अस्मितामूलक साहित्य का समाजशास्त्र

- **दलित साहित्य का समाजशास्त्र-** दलित आत्मकथा, दलित कविता एवं दलित उपन्यास
- **स्त्री लेखन का समाजशास्त्र-** स्त्री आत्मकथा; स्त्री कविता एवं स्त्री केन्द्रित उपन्यास

संदर्भ पुस्तकें

डॉ० नगेन्द्र	:	साहित्य का समाजशास्त्र
मैनेजर पाण्डेय	:	साहित्य के समाजशास्त्र की भूमिका
निर्मला जैन (सं)	:	साहित्य का समाजशास्त्रीय चिन्तन
धर्मवीर	:	दलित चिंतन का विकास : अभिशप्त चिंतन से इतिहास चिंतन की ओर
सुधा सिंह	:	ज्ञान का स्त्रीवादी पाठ

पत्रिकाएँ :

आलोचना नवांक 20, 1972

आलोचना, नवांक 25, 1973

एम.ए. चतुर्थ सेमेस्टर
18वाँ प्रश्न पत्र (वैकल्पिक)
विचारधारा और साहित्य

क्रेडिट : 04
कोड : HIN 581

इकाई 01

- विचारधारा क्या है? समाज, साहित्य और विचार का अन्तःसंबंध

इकाई-02

- विचारधारा और कला, विचारधारा और साहित्य के द्वन्दात्मक संबंध, साहित्य की इतिहास दृष्टि और विचारधारा-यथार्थवाद, आदर्शवाद, प्रकृतवाद और विचारधारा

इकाई-03

- आधुनिक विचारधाराएं और हिंदी साहित्य
(क) मानवतावाद (ख) सुखवाद और उपयोगिता (ग) राष्ट्रवाद (घ) मार्क्सवाद (ङ) समाजवाद (च) अस्तित्ववाद (छ) नारीवाद (ज) अंबेडकरवाद

इकाई- 04

- धार्मिक दार्शनिक विचारधाराएं और उनका मध्यकालीन और आधुनिक हिंदी साहित्य पर प्रभाव
(क) वेदान्त तथा अन्य दार्शनिक विचार (ख) इस्लाम (ग) सूफीवाद (घ) बौद्ध एवं जैन दर्शन (ङ) रहस्यवाद
(क) कलावाद (ख) रूपवाद (ग) अनुभववाद (घ) नयी समीक्षा (ङ) संरचनावाद और उत्तर-संरचनावाद (च) उत्तर-आधुनिकतावाद

संदर्भ पुस्तकें

गोरख पाण्डे (सं०)	:	कला और साहित्य का चिन्तन
रामविलास शर्मा	:	आस्था और सौन्दर्य (नवीन संस्करण)
रामविलास शर्मा	:	मार्क्स और पिछड़े हुए समाज
मैनेजर पाण्डेय	:	शब्द और कर्म
मैनेजर पाण्डेय	:	आलोचना की सामाजिकता

Paarekh, Bhikhu	:	Mark's Theory of Ideology
Althusser, Louis	:	Lenin and Philosophy and other Essays
Fischer, Earnest	:	Art Against ideology
Khrapchenko, M	:	The Writer's creative individuality and development of Literature
Macherey, Pierre	:	A theory of Literature
Walliams, Raymond	:	Marxism and Litarature
Do	:	On Ideology, Centre for Contemporary Cultural Studies
Eagleton, Terry	:	Criticism and Ideology, London
Do	:	The Ideology of the Aesthetic
Lichtheim George	:	The Concept of Ideology and other essays

पत्रिकाएं

आलोचना, नवांक 18 अप्रैल-जून 1970

एम.ए. चतुर्थ सेमेस्टर

19वाँ प्रश्न पत्र (वैकल्पिक)

हिंदी और उर्दू साहित्य का तुलनात्मक अध्ययन

क्रेडिट : 04

कोड : HIN 582

इकाई-1

हिंदी और उर्दू का भाषिक एवं लिपिगत संबंध

- हिंदी और उर्दू का आरंभ
- दोनों भाषाओं का ध्वनिगत साम्य
- व्याकरणिक पक्ष-वाक्य विन्यास, क्रिया, समास
- मुहावरों एवं कहावतों में साम्य
- उर्दू और देवनागरी लिपि का साम्य-वैषम्य

इकाई-2

हिंदी और उर्दू का आरंभिक साहित्य

- हिंदी और उर्दू के साझा कवि अमीर खुसरो
- हिंदी के प्रेमाख्यानक काव्य और उर्दू मसनवियों में साम्य-वैषम्य
- हिंदी और उर्दू में रामकाव्य परंपरा का तुलनात्मक अध्ययन
- हिंदी और उर्दू में कृष्णकाव्य परंपरा का तुलनात्मक अध्ययन

इकाई-3

हिंदी की रीतिकालीन कविता और समकालीन उर्दू काव्य

- सौंदर्य चित्रण, नख-शिख वर्णन, दरबारी काव्य परंपरा

इकाई-4

हिंदी और उर्दू का आधुनिक साहित्य

- फोर्ट विलियम कॉलेज, 1857 की क्रांति और नवजागरण
- भारतेंदु और हाली युगीन काव्य का तुलनात्मक अध्ययन
- हिंदी और उर्दू में गद्य लेखन की परंपरा
- हिंदी और उर्दू साहित्य में स्वतंत्रता आंदोलन की उपस्थिति
- हिंदी और उर्दू की प्रगतिशील काव्य परंपरा का तुलनात्मक अध्ययन
- हिंदी और उर्दू कथा साहित्य में भारत-विभाजन

इकाई-5

हिंदी और उर्दू साहित्य में समकालीन विमर्श

- स्त्री विमर्श-कहानी और कविता
- दलित और पिछड़ा विमर्श तथा पसमांदा साहित्य

संदर्भ पुस्तकें

एहतेशाम हुसैन	:	उर्दू साहित्य का आलोचनात्मक इतिहास
गोपीचंद नारंग	:	बीसवीं शताब्दी में उर्दू साहित्य
गोपीचंद नारंग	:	उर्दू पर खुलता दरिचा
नगमा जावेद मलिक	:	हिंदी और उर्दू कविता में नारीवाद
मोहम्मद हुसैन आजाद	:	आबे-हयात
मोहन अवस्थी	:	हिंदी रीति कविता और समकालीन उर्दू काव्य
नामवर सिंह	:	आधुनिक साहित्य की प्रवृत्तियाँ
रघुपति सहाय फिराक	:	उर्दू भाषा और साहित्य
राजेंद्र यादव	:	कथा जगत की बागी मुस्लिम औरतें
रामचंद्र शुक्ल	:	हिंदी साहित्य का इतिहास
रुखसाना शेख	:	आधुनिक हिंदी-उर्दू काव्य का तुलनात्मक अध्ययन
लक्ष्मी सागर वाष्णेय	:	फोर्ट विलियम कॉलेज
वजीर आगा	:	उर्दू शायरी का मिजाज़
शम्सुर्रहमान फारुकी	:	उर्दू का आरंभिक युग
शीतांशु	:	कंपनी राज और हिंदी

एम.ए. चतुर्थ सेमेस्टर

19वाँ प्रश्न पत्र (वैकल्पिक)

हिन्दी और बांग्ला साहित्य का तुलनात्मक अध्ययन

क्रेडिट : 04

कोड : HIN 583

इकाई-1

हिन्दी और बांग्ला का भाषिक अंतर्सम्बंध

- ऐतिहासिक-सांस्कृतिक पृष्ठभूमि

इकाई-2

- हिन्दी और बांग्ला का आरम्भिक साहित्य : जैन, बौद्ध तथा नाथों का प्रभाव, शौर्य काव्य

इकाई-3

- भक्ति आंदोलन की हिन्दी और बांग्ला में अभिव्यक्ति (क) निर्गुण काव्य (ख) सगुण काव्य (ग) सहजिया सम्प्रदाय (घ) बाउल गीत
- हिन्दी और बांग्ला के भक्ति साहित्य का सांस्कृतिक अंतर्सम्बंध

इकाई-4

- रीतिकाल और हिन्दी व बांग्ला का शृंगारिक काव्य
- काव्य कला तथा सौन्दर्य-दृष्टि की तुलना

इकाई-5

आधुनिक नवजागरण और हिन्दी-बांग्ला साहित्य :

- (क) आधुनिक कविता (ख) गद्य की प्रमुख विधाएँ : उपन्यास, कहानी, नाटक
- बांग्ला और हिन्दी जाति का अंतर्सम्बंध
- हिन्दी और बांग्ला क्षेत्र की साहित्यिक पत्रकारिता

संदर्भ पुस्तकें

- बांग्ला साहित्य का इतिहास : सुकुमार सेन
भारतीय संस्कृति और हिन्दी प्रदेश : रामविलास शर्मा
हिन्दी नवजागरण : गजेन्द्र पाठक
रस्काकशी : उन्नीसवीं : वीरभारत तलवार
सदी का नवजागरण और पश्चिमोत्तर प्रांत भारत की भाषा समस्या : रामविलास शर्मा
बांग्ला नवजागरण : सुशोभन सरकार
भारतीय नवजागरण और पुनरुत्थानवादी चेतना : मोहित कुमार हालदार
हिन्दी और बांग्ला साहित्य का तुलनात्मक अध्ययन : कल्याणीदास गुप्त

एम.ए. चतुर्थ सेमेस्टर

19वाँ प्रश्न पत्र (वैकल्पिक)

हिंदी और तेलुगु साहित्य का तुलनात्मक अध्ययन

क्रेडिट : 04

कोड : HIN 584

इकाई-1

हिंदी और तेलुगु का भाषिक संबंध

- (क) ध्वनिगत साम्य (ख) वाक्य विन्यास (ग) क्रियाओं में साम्य (घ) वाक्यों में साम्य (ङ) समास (च) कहावतों में साम्य

इकाई 2

हिंदी और तेलुगु आदिकाल साहित्य

- हिंदी और तेलुगु प्रबंध काव्य साम्य और वैषम्य

इकाई 3

हिंदी और तेलुगु का मध्यकालीन साहित्य

- मध्यकालीन साहित्य की प्रवृत्तियाँ एक विश्लेषण
- हिंदी और तेलुगु का भक्ति साहित्य एक अध्ययन
- हिंदी का रीतिकालीन साहित्य और तेलुगु का तत्कालीन साहित्य का तुलनात्मक अध्ययन

इकाई-4

हिंदी और तेलुगु नवजागरण कालीन एवं प्रगतिशील साहित्य

- स्वतंत्रता-पूर्व साहित्य का तुलनात्मक अध्ययन
- स्वातंत्र्योत्तर साहित्य का तुलनात्मक अध्ययन
- हिंदी और तेलुगु की प्रगतिशील काव्यधारा का अध्ययन
- हिंदी और तेलुगु की प्रगतिशील कहानियों का तुलनात्मक अध्ययन

इकाई 5

हिंदी और तेलुगु का समकालीन विमर्श

- (क) हिंदी और तेलुगु में दलित विमर्श का तुलनात्मक अध्ययन (ख) हिंदी और तेलुगु में स्त्री विमर्श का तुलनात्मक अध्ययन (ग) हिंदी और तेलुगु में प्रचलित आधुनिक विमर्श एक अध्ययन

संदर्भ पुस्तकें

गुरजाड कन्याशुल्कम-भीमसेन निर्मल, हिन्दी प्रचार नामपल्ली, हैदराबाद
मिट्टी मनुष्य और आकाश-प्रो० आदेश्वर राव, मिलिंद प्रकाशन, हैदराबाद
बीसवी सदी का तेलुगु साहित्य-डॉ० आई०एन० चन्द्रशेखर रेड्डी, एस० वी० वि०वि०
तिरुपति

तेलुगु साहित्य : एक अवलोकन-जी० नीरजा, आन्ध्र प्रदेश अकादमी हैदराबाद
तुलनात्मक साहित्य- इन्द्रनाथ चौधरी (सं०) द०भ०हि०प्र०स० टी नगर, चेन्नई
तेलुगु साहित्य का इतिहास-बाल शैरी रेड्डी, हिन्दी समिति, उ०प्र० शासन रा०प्र०
टण्डन हिन्दी भवन महात्मा गाँधी मार्ग, लखनऊ
हिन्दी में दक्षिण भारतीय साहित्य-(सं०) डॉ० विजय राधव रेड्डी, अकादमिक प्रतिभा,
दिल्ली

सहस्र वर्षों का तेलुगु साहित्य-(सं०) प्रो० वाई०लक्ष्मी प्रसाद, आ०हि० अकादमी,
हैदराबाद

दक्षिण भारत का संत परम्परा-डॉ० राधाकृष्ण मूर्ति, कर्नाटक महिला हिन्दी सेवा
समिति

हिन्दी और तेलुगु में महाकाव्य का स्वरूप-विकास : तुलनात्मक अध्ययन राजेश्वरनंदा
शर्मा, तिरुपति, आन्ध्र प्रदेश, श्री वेंकटेश्वर वि०वि० 1986

तेलुगु साहित्य : एक अंतर्ग्राह्य, गुरमकोण्डा नीरजा, श्री साहिती प्रकाशन, हैदराबाद

तेलुगु साहित्य का हिन्दी पाठ-ऋषभ देव शर्मा

तेलुगु साहित्य का हिन्दी अनुवाद : परम्परा और प्रदेश- ऋषभ देव शर्मा गुरमकोण्डा,
नीरजा, परिलेख प्रकाशन

एम.ए. चतुर्थ सेमेस्टर

19वाँ प्रश्न पत्र (वैकल्पिक)

हिंदी एवं मराठी साहित्य का तुलनात्मक अध्ययन

क्रेडिट : 04

कोड : HIN 585

इकाई-1

हिंदी एवं मराठी भाषा और साहित्य का उद्भव और विकास

- हिंदी और मराठी भाषा का उद्गम और विकास
- साहित्य का परस्पर प्रभाव
- लिपि साम्य का इतिहास
- हिंदी और मराठी का भक्तिकालीन साहित्य (नामदेव, तुकाराम, कबीर, रैदास)
- हिंदी और मराठी के महिला संत रचनाकार (जनाबाई, बहिणाबाई, मीरांबाई, सहजोबाई)

इकाई-2

आधुनिक हिंदी एवं मराठी के कवियों का तुलनात्मक अध्ययन

- विंदा करंदीकर एवं अज्ञेय
- नामदेव ढसाल एवं गजानन माधव मुक्तिबोध
- दिलिप चित्रे एवं विष्णु खरे
- भुजंग मेश्राम एवं निर्मला पुतुल
- प्रफुल्ल शिलेदासर एवं कुमार अंबुज
- अनुराधा पटील एवं अनामिका

इकाई-3

हिंदी एवं मराठी कथात्मक गद्य साहित्य

उपन्यास- कोसला (भालचन्द्र नेमाड़े) एवं रागदरबारी (श्रीलाल शुक्ल)

आत्मकथा- अछूत (दया पवार) एवं मुर्दहिया (तुलसीराम)

कहानी- फिनिक्स की राख से उठा मोर (जयंत पवार) रद्दोबदल (मनोज रूपड़ा)

इकाई-4

हिंदी एवं मराठी निबंध एवं वैचारिक साहित्य

- भारतेन्दु एवं महात्मा ज्योतिबा फुले
- महावीर प्रसाद द्विवेदी एवं गोपाल गणेश आगरकर
- रामचंद्र शुक्ल एवं गणेश त्र्यंबक देशपाण्डे

- महादेवी वर्मा एवं ताराबाई शिन्दे
- हरिशंकर परसाई एवं पु० ल० देशपाण्डे

इकाई-5

हिंदी एवं मराठी नाटक

- पार्टी (महेश एलकुंचवार) एवं एक और द्रोणाचार्य (शंकर शेष)

संदर्भ पुस्तकें

पिसाटी का बुर्ज-दिलिप चित्रे, अनुवाद चंद्रकांत पाटील,

आक्रोश का कोरम (नामदेव अनु चंद्रकांत पाटील)

कोसला हिंदी अनुवाद भगवानदास वर्मा

पैदल चलूंगा-प्रफुल्ल शिलेदार

समकालीन मराठी साहित्य : गति-प्रगति, संपादन चंद्रकांत पाटील, साहित्य भंडार,
इलाहाबाद

एम.ए. चतुर्थ सेमेस्टर

20वाँ प्रश्न पत्र (वैकल्पिक)

अनुवाद : सिद्धान्त और प्रक्रिया

क्रेडिट : 04

कोड : HIN 586

इकाई-1

अनुवाद : सिद्धांत और इतिहास

- अनुवाद की अवधारणा एवं स्वरूप
- अनुवाद की प्रक्रिया
- अनुवाद सिद्धांत और इतिहास
- अनुवाद का पश्चिमी और भारतीय इतिहास
- अनुवाद का क्षेत्र और महत्व

इकाई-2

राजभाषा और अनुवाद

- राजभाषा का अभिप्राय और परंपरा
- हिंदी की संवैधानिक स्थिति

इकाई-3

साहित्यिक और साहित्येतर अनुवाद

- साहित्यिक और साहित्येतर अनुवाद का स्वरूप
- साहित्यिक और साहित्येतर अनुवाद के विभिन्न प्रकार
- साहित्यिक और साहित्येतर अनुवाद की समस्याएँ और चुनौतियाँ

इकाई-4

मशीनी अनुवाद

- मशीनी अनुवाद का इतिहास
- मशीनी अनुवाद की प्रक्रिया
- मशीनी अनुवाद की समस्याएँ और सीमाएँ

इकाई-5

पारिभाषिक शब्दावली और अनुवाद

- पारिभाषिक शब्द से तात्पर्य
- पारिभाषिक शब्दावली निर्माण के सिद्धांत और प्रक्रिया
- अनुवाद का अनुप्रयुक्त पक्ष

संदर्भ पुस्तकें :

- जी. गोपीनाथन, अनुवाद सिद्धांत एवं प्रयोग, 2001, लोकभारती प्रकाशन, इलाहाबाद
- गोस्वामी, कृष्णकुमार, अनुवाद विज्ञान की भूमिका, 2008, राजकमल प्रकाशन
- कुमार सुरेश, अनुवाद सिद्धांत की रूपरेखा, 2005, वाणी प्रकाशन, नई दिल्ली
- तिवारी, भोलानाथ, अनुवाद विज्ञान : सिद्धांत एवं प्रविधि, 2009, किताबघर प्रकाशन, नई दिल्ली
- मल्होत्रा, विजय कुमार, कम्प्यूटर के भाषिक अनुप्रयोग
- तिवारी, भोलानाथ, पारिभाषिक शब्दावली और समस्याएँ
- तिवारी, भोलानाथ, अनुवाद की व्यवहारिक समस्याएं
- गोस्वामी, कृष्णकुमार, प्रयोजनमूलक भाषा और कार्यालयी हिंदी, कलिंगा प्रकाशन, नई दिल्ली

एम.ए. चतुर्थ सेमेस्टर

एम0ए0 चतुर्थ सेमेस्टर

20वाँ प्रश्न पत्र : वैकल्पिक

क्रेडिट : 04

कोड : HIN 682

सृजनात्मक लेखन

इकाई-1

सृजनात्मक लेखन : सामान्य परिचय

- सृजनात्मक लेखन, अर्थ स्वरूप और महत्त्व
- सृजनात्मक लेखन के दार्शनिक, मनोवैज्ञानिक, सामाजिक और राजनीतिक आधार
- सृजनात्मक लेखन की प्रमुख विशेषताएँ

इकाई-2

सृजनात्मक लेखन की प्रक्रिया

- भाव एवं विचार की रचना में रूपांतरण की प्रक्रिया
- रचना-कौशल का विश्लेषण : भाषा रूप एवं रचनात्मक सौष्ठव।
- रचना प्रक्रिया : लेखन की अनिवार्यता की अनुभूति, परिस्थितियों की अनुकूलता, विषय-वस्तु का चयन, ज्ञान और अनुभव के आधार पर सोच-विचार, लेखन कार्य

इकाई-3

विभिन्न विधाओं की आधारभूत संरचनाओं का व्यावहारिक अध्ययन :

- कविता : संवेदना, काव्य रूप, भाषिक सौन्दर्य, छंद, लय, गति, तुक
- कथा साहित्य : वस्तु पात्र, परिवेश, कथानक और विमर्श
- नाट्य साहित्य : वस्तु, पात्र, परिवेश और रंगकर्म
- विविध गद्य विधाएं : निबंध, संस्मरण, व्यंग्य जीवनी, डायरी, यात्रा-वृत्तान्त, आदि
- बाल साहित्य के आधारभूत तत्त्व

इकाई-4

सृजनात्मक लेखन के विविध आयाम

- उपभोक्ता केंद्रित लेखन : स्लोगन, भाषण, गीत
- प्रचार सामग्री लेखन : बैनर, पोस्टर, हॉर्डिंग, पम्फलेट, वाल राइटिंग

- संचार माध्यमों (प्रिंट एवं इलेक्ट्रॉनिक) के लिए लेखन : फीचर, यात्रा-वृत्तांत, साक्षात्कार, पुस्तक समीक्षा, पटकथा, धारावाहिक, विज्ञापन, आदि
- सोशल मीडिया के लिए लेखन

इकाई-5

प्रकाशन

- लेखक-पाठक-प्रकाशन संबंध
- प्रकाशन एवं वितरण
- संपादन

संदर्भ पुस्तकें

- साहित्य चिंतन : रचनात्मक आयाम : रघुवंश
- रचनात्मक लेखन : संपा0- रमेश गौतम
- कला की जरूरत : अन्स्ट फिशर, अनु0 रमेश श्रीवास्तव
- साहित्य का सौन्दर्य चिंतन : रवीन्द्रनाथ श्रीवास्तव
- कविता-रचना-प्रक्रिया : कुमार विमल
- कविता से साक्षात्कार : मलयज
- एक कवि की नोटबुक : राजेश जोशी
- उपन्यास की संरचना : गोपाल राय
- साहित्य सहचर : हजारी प्रसाद द्विवेदी
- पत्रकारी लेखन के आयाम : मनोहर प्रभाकर
- रेडियो लेखन : मधुकर गंगाधर
- पटकथा लेखन : असगर वजाहत, प्रभात रंजन
- कथा-पटकथा : मन्नु भंडारी

History of India (1206 - 1320)

UNIT I : INDIA AND ISLAM'S ADVENT

- Advent of Islam in India; Mohammad bin Qasim
- India on the eve of Turkish invasions; invasions of Mahmud of Ghazni & Mohammad ghorl- their impact.

UNIT-II: THE EARLY TURKS (1206-1266)

- The foundation of Delhi sultanate: Aibak and his achievements
- Ilutmish- his problems & achievements.

UNIT III: THE EARLY TURKS: BALBAN & HIS SUCCESSORS

- Balban- his achievements-kingship theory & mongol policy.
- Successors of Balban.

UNIT IV: THE KHALJI IMPERIUM I

- The Khalji revolution.
- Alauddin Khalji- accession & his economic reforms.

UNIT V: THE KHALJI IMPERIUM II

- Alauddin Khalji- Reforms; Mongol policy.
- Alauddin Khalji- Deccan policy & his last days

Semester - II

History of United States of America (1898-1976) (Code: HIS 562)

UNIT - I

1. The Progressive Era in U.S.A.
2. Theodore Roosevelt and Woodrow Wilson

UNIT - II

1. U.S.A. and the First World War
2. The Great Depression of 1929

UNIT - III

1. The New Deal Programme of F.D. Roosevelt
2. The Second World War and U.S.A.

History of India (1206 - 1320)

UNIT I : INDIA AND ISLAM'S ADVENT

- Advent of Islam in India; Mohammad bin Qasim
- India on the eve of Turkish invasions; invasions of Mahmud of Ghazni & Mohammad ghori- their impact.

UNIT-II: THE EARLY TURKS (1206-1266)

- The foundation of Delhi sultanate: Aibak and his achievements
- Ilutmish- his problems & achievements.

UNIT III: THE EARLY TURKS: BALBAN & HIS SUCCESSORS

- Balban- his achievements-kingship theory & mongol policy.
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UNIT - I

1. The Progressive Era in U.S.A.
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Curtailed Syllabus for
the session 2020-21

मध्यकालीन एवं आधुनिक इतिहास विभाग
इलाहाबाद विश्वविद्यालय, प्रयागराज

व्याख्यानसूची

बी.ए. प्रथमवर्ष
(2020-2021)

प्रश्नपत्र I : भारतीय संस्कृति

- इकाई I: प्राचीन भारतीय संस्कृति का विकास
- संस्कृति का तात्पर्य ; संस्कृति व सभ्यता ; अनेकता में एकता
 - सन्धय सभ्यता - प्रमुख स्थल , सामाजिक व धार्मिक जीवन , कला एवं नगर नियोजन ; अवमान
 - वैदिक युग तथा उत्तर वैदिक युग : धार्मिक विचार व प्रथाएँ ; राजनीतिक संस्थाएँ, सामाजिक व सांस्कृतिक जीवन
 - शिक्षा , महिलाओं की स्थिति
 - जैन एवं बौद्ध धर्म : प्रमुख विशेषताएँ , विकास, प्रभाव तथा अवमान

- इकाई II: साम्राज्यों के युग में समाज एवं संस्कृति
- मौर्य एवं उत्तर-मौर्य काल : कला , वास्तुकला , साहित्य व संगीत का विकास

- मुसलमानी संस्कृति: वास्तुकला , शिल्पकला , चित्रकला , साहित्य व संगीत
 - संगमयुग में साहित्य व समाज
 - मुसलमानी काल में समाज एवं संस्कृति
- इकाई III: मध्यकालीन भारत में सामाजिक एवं सांस्कृतिक सामंजस्य
- भारतीय समाज पर इस्लाम का प्रभाव
 - शक्ति आन्दोलन: विभिन्न सम्प्रदाय ; समाज पर प्रभाव
 - इफ्तियार: भारत में आगमन और विकास ; प्रमुख सूफ़ी शिखर
 - मध्यकालीन वास्तुकला : मुसलमानी , मुसलमानी व दक्षिणभारतीय वास्तुशैलियों का विकास, विशेषताएँ ; प्रभाव
 - चित्रकला का विकास: मुसलमानी चित्रकला ; राजपूत व अन्य शैलियाँ (कलमे)
- इकाई IV : मध्यकालीन समाज एवं संस्कृति के विविध पक्ष
- फारसी , हिन्दी , व उर्दू साहित्य का विकास
 - बौद्धिक अनुशीलन एवं संगीत: शिक्षा व विद्यार्जन ; संगीत का विकास
 - मध्यकालीन समाज : दैनिक जीवन ; सामाजिक वर्गविभाजन ; महिलाओं की स्थिति
 - उत्तरवर्ती अठारहवीं शताब्दी: नगरीकरण व नगर-संस्कृति ; ग्रामीण समाज व ग्राम्यजीवन ; सामाजिक विचार संस्कृतियों की अभिव्यक्ति
 - सुधारवादी विचारों व आन्दोलनों का उदय ; प्रारम्भिक 19वीं शताब्दी की 'नवजागृति' के देशज स्रोत: राजा राय की भूमिका।
- इकाई V : आधुनिक भारत में समाज एवं संस्कृति का सर्वेक्षण
- नवीन सामाजिक एवं धार्मिक विचारों : हिन्दुओं , सिखों व पारसियों के सामाजिक - धार्मिक आन्दोलन ; ईसाई प्रभाव ; मुस्लिम व सिखों के सामाजिक आन्दोलन
 - शिक्षा, आधुनिकता एवं नवीन विचार : पारम्परिक शिक्षा की नियति व आधुनिक शिक्षा का विकास ; सामाजिक सांस्कृतिक सन्दर्भ में आधुनिकता का तात्पर्य व उसके प्रभाव की समीक्षा ; राष्ट्रवाद के परिप्रेक्ष्य में बौद्धिक व सांस्कृतिक प्रवृत्तियाँ

प्रश्नपत्र II - A: मध्यकालीन भारत का इतिहास (1206-1526)

(केवल मध्यकालीन इतिहास के विद्यार्थियों हेतु)

इकाई 1: भारत में तुर्क सत्ता की स्थापना

इकाई 1: भारतमेंतुर्कीसत्ताकीस्थापना

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B. A. III, प्रश्नपत्र III (क)

प्रथमप्रश्नपत्र: आधुनिकविश्वकाइतिहास(1453-1789)

इकाई 1: यूरोपमेंआधुनिकयुगकाप्रारम्भ

1. यूरोपमेंआधुनिकयुगकीविशेषताएं। यूरोपमेंराष्ट्रीयराज्योंकाउदय। पुनर्जागरण। तात्पर्य; कारण, वह इटलीमेंक्योंप्रारम्भहुआ?
2. कला, साहित्य, विज्ञानमेंपुनर्जागरणकातीनप्रगति। पुनर्जागरणकामहत्व।
3. भौगोलिकअन्वेषणएवंखोजें। वाणिज्यिकक्रांति।
4. धर्मसुधारआंदोलनकेकारण। लूथरएवंकोल्टिनकेविचारएवंयोगदान।

इकाई 2: यूरोपमेंनिरंकुशवादकायुग

1. निरंकुशवादकीविशेषताएं। तीस-वर्षीययुद्ध; कारणएवंघरणा।
2. वेस्टफेलियाकीसंधिएवंउसकामहत्व। नीदरलैंड्सकाविद्रोह; कारणएवंमहत्व।
3. लुईघतुर्दशकीनीतियाँएवंउपलब्धियाँ(1661-1715)। फ्रांसकीसर्वाधिक्यतामेंलुईघतुर्दशकायोगदान।
4. गौरवमयीक्रांति; कारण, परिणामएवंमहत्व।

इकाई 3: यूरोपीयऔपनिवेशिकविस्तारएवंप्रबुद्धताकायुग

1. यूरोपीयउपनिवेशवादकेउदयएवंविस्तारकेकारण।

इकाई 4: यूरोपमेंप्रबुद्धताकायुग; विशेषताएं; प्रमुखविचारएवंविचारक; महत्व।

B. A. III, प्रश्नपत्र III (क)

भारतमेंस्वतंत्रताआंदोलन(1857-1950)

इकाई 5: स्वाधीनता तथा स्वातंत्र्योत्तर प्रसंग (1947-1950)

* स्वाधीनता का आगमन: माउण्टबेटन योजना तथा स्वतंत्रता की सहवर्ती परिस्थितियाँ, भारतीय उपमहाद्वीप के विभाजन के उत्तरदायी कारकों का विश्लेषणात्मक सर्वेक्षण।

* प्रशासनिक सुदृढीकरण तथा संवैधानिक विकास: रियासतों का समायोजन, संविधान सभा का कृतित्व तथा 1950 के संविधान की प्रमुख विशेषताएं।

* सामाजिक सन्दर्भ: दलितों एवं अन्य पिछड़े वर्गों तथा महिलाओं के विशेष सन्दर्भ में सामाजिक परिस्थितियों की समीक्षा (प्रायः 1900-1947), सरकार की सामाजिक नीति।

* पुनरावलोकन: स्वतंत्रता आंदोलन के आदर्श एवं मूल्य, महात्मा गांधी, जवाहरलाल नेहरू, सरदार पटेल, मौलाना आजाद एवं डॉ. अम्बेडकर के योगदान।

UNIVERSITY OF ALLAHABAD

(A Central University)

Department of Philosophy



Syllabus
B.A. Part I, II & III

**B.A. Part I
Paper I
Ethics
First Term**

1. The Nature and Subject Matter of Ethics.
2. The Relation of Ethics with Politics and Religion.
3. **Basic Postulates of Morality.**
4. The Problem of Free Will: Arguments for and against Freedom of Will: Determinism, Indeterminism and Self-Determinism.
5. **The Nature of Moral Judgment.**
6. **The Object of Moral Judgment: Motives, Intentions, Consequences and Ends and Means.**

Second Term

7. Ethical Hedonism: Transmutation of Psychological to Ethical Hedonism; Arguments for and against Ethical Hedonism.
8. Egoistic Hedonism: Basic features & arguments for and against Egoistic Hedonism.
9. Altruistic Hedonism or Utilitarianism: Transmutation of Egoistic Hedonism to Altruistic Hedonism; General characteristics of Utilitarianism & arguments for and against Utilitarianism.
10. Bentham's Quantitative Utilitarianism: Statement of Bentham's Utilitarian Theory; The Hedonistic Calculus & the limitations of the theory.
11. Mill's Qualitative Utilitarianism: Statement of Mill's Utilitarian theory; Critique of Bentham's Quantitative theory and the limitations of Mill's Theory.
12. Sidgwick's Utilitarian Theory: Critique of Bentham's and Mill's Utilitarian theories; The concept of Ideal Utilitarianism & limitations of Sedgwick's theory.

Third Term

13. Kant's Deontological Ethics : The Doctrines of Good Will, Freedom of Will, Autonomy and Heteronomy of Will and

(4)

- Holy will; The Theory of Imperatives : Nature of Ethical Imperatives, Hypothetical and Categorical Imperatives, Formulations of Categorical Imperatives; The Doctrines of Duty for Duty's sake and Man as an end-in-himself; Evaluation of Kantian Ethics with reference to the charges of Formalism, Rigorism.
14. Ethical Perfectionism : General characteristics of the theory; Perfectionism as Synthesis of Hedonism and Asceticism & Egoism and Altruism; The concept of a System of Idealistic Values; The concept of Man in Perfectionism; Perfectionistic Ethics of T. H. Green & F.H. Bradley and the limitations of their theories.
 15. Nietzsche: Master morality and Slave morality; Theory of Superman and Trans-valuation of Values.
 16. Basic features of Indian Ethics; An Outlines of Bhagavatgita, Jaina and Buddhist Ethics; Concepts of Rita, Rina and the four Purusharthas.

Suggested Books

1. S. L. Pandey : Nitishastra Ka Sarvekshan
2. V. P. Verma : Nitishastra Ke Mool Siddhant
3. Jata Shankar : Naitik Darshan Ke Vividh Ayam
4. N. N. Mishra : Nitishastra, Siddhanta Tatha Prayog
5. J.S. Mackenzie : A Manual of Ethics
6. W.K. Frankena : Ethics
7. W. Lillie : Introduction of Ethics
8. D. Pathak : Indian Ethics

Paper II

Indian Metaphysics and Epistemology

First Term

1. General Characteristics of Indian Philosophy; Āstika and Nāstika systems; the doctrines of rebirth and karma; the problem of negation of life and world in Indian Philosophy.
2. Cārvāka : Epistemology, Metaphysics and Ethics
3. Jainism: Anekāntavāda; Syādvāda; Saptabhanginaya; the doctrine of Substance; Bondage and Liberation.

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4. Early Buddhism: The doctrine of four noble truths, especially the doctrine of Pratityasamutpāda and Nirvāna; theory of momentariness and No-soul theory; the ideal of Bodhisattva and the distinction between Hinayāna and Mahāyāna.

Second Term

5. Sāmkhya : Theory of Satkāryavāda; Purusa and the arguments for its existence and plurality; Prakriti and the arguments for its existence; the theory of three Guṇas and the Theory of Evolution.
6. Nyāya: Nyāya theory of four Pramānas: Pratyakṣa, Anumāna, Upamāna and Sabda; theory of Anumāna; kinds of Anumāna; Vyāpti and its kinds; the ways of knowing Vyāpti; Hetvābhāsa;

Third Term

7. Sankara : Meaning of Advaita Philosophy; nature of Māyā/Avidyā; the nature of Brahman; the nature of Consciousness, the nature and means of Mokṣa and Tattvamasi.
8. Rāmānuja: Meaning of Viśiṣṭādvaita; Rāmānuja's refutation of Sankara's theory of Māyā; the nature of God; the nature of Consciousness; the nature and means of Mokṣa and Tattvamasi (Aprithaksiddhi)

Suggested Books

1. D. M. Datta and S. C. Chatterji : An Introduction to Indian Philosophy (Hindi edition available)
3. S. L. Pandey : Bhartiya Darshan Ka Sarveksan
4. M. Hiriyanna : Outlines of Indian Philosophy (Hindi edition available)
5. C. D. Sharma : A Critical Survey of Indian Philosophy (Hindi edition available)
6. R. M. Pathak : Bhartiya Darshan ki Samikshatmak Rooparekha

B. A. Part – II
Paper I
Modern Western Philosophy
First Term

1. Salient characteristics of Modern Western Philosophy.
2. Rene Descartes: The method of doubt; four rules of investigation, *Cogito ergo sum*, proofs for the existence of God and the world; Cartesian dualism and Interactionism.
3. Spinoza's Pantheism; Substance; Attributes and Modes; Parallelism and Intellectual Love of God.
4. Leibnitz: Monadology; theory of Pre-established Harmony, and the concept of God.

Second Term

5. Rationalism versus Empiricism; Locke's criticism of Innate Ideas; the main thesis of Empiricism.
6. Locke's theory of knowledge; kinds of ideas; limits of knowledge; Primary and Secondary qualities and Locke's theory of Universals.
7. Berkeley's criticism of Locke's Realism; *esse est percipi*; the refutation of Abstract Ideas and Nominalism; Berkeley's theism and Theory of self.

Third Term

8. Hume's theory of knowledge; Hume's Phenomenalism and the theory of Association of Ideas; his refutation of the existence of God and self; his refutation of causality; Hume's Skepticism; Hume's contribution to Empiricism;
9. Kant's criticism of Rationalism and Empiricism; Synthetic *a priori* judgement; Space and Time; Reason and Understanding; Phenomena and Noumena.

Suggested Books

1. Thilly and Wood : A History of Western Philosophy.
2. R. Falkenberg : A History of Modern Western Philosophy

3. D.J.O'Conner : A Critical History of Western Philosophy (Ed.)
4. S.L. Pandey : Adhunik Darshan Ki Bhumika.
5. J.S. Srivastava : Adhunik Darshan Ka Vaijnanika Itihas
6. H.S. Upadhyaya : Paschatya Darshan Ka Udbhava Aur Vikasa.

Paper II

Logic

First Term

1. The nature, definition and scope of Logic; distinction between Deductive and Inductive Logic; Truth, Validity and Soundness; the nature and illustration of thinking.
2. Functions of language and Kinds of Definition; Definition by genus and difference.
3. Informal Fallacies; their definitions and detection.
4. Inductive and Analogical Argument.
5. Hypothesis and Scientific Explanation; criteria of evaluation of Hypothesis.
6. Causal connections and Mill's methods of Experimental Enquiry.

Second Term

7. Categorical Propositions and their kinds.
8. Categorical Syllogism: Figures, Moods; Rules of Validity and Venn Diagram.
9. Disjunctive and Hypothetical Syllogisms.
10. Dilemma

Third Term

11. Symbolic Logic: Statement; Argument and Argument form; Logical connectives: Negation; Conjunction; Disjunction; Implication; Equivalence and their truth-table definitions; Paradoxes of material implication; Laws of thought; Truth-Table techniques of testing arguments and statements.
12. Formal proofs of Validity.
13. Theory of Probability.

Suggested Readings

1. I.M. Copi : Introduction to Logic
2. Pandey & Mishra : Tarkasastra Ka Parichaya
(Copi's Translation)
3. Cohen and Nagel : Logic and Scientific Method
4. S.K. Seth : Tarkashastra
and Nilima Misra

N.B: Numericals and practical exercises may also be asked from sources outside the recommended books.

B. A. Part – III

Paper I

Western Epistemology

First Term

1. Nature and scope of Epistemology; Epistemology and its relation to Metaphysics and Psychology.
2. Nature of Knowledge; Tripartite conditions of knowledge; Gettier's problem; Fourth conditions of knowledge; Knowledge as a mental state, Knowledge as a disposition, Knowledge as performative verb; Knowing how and Knowing that; Knowledge and belief.
3. Rationalism; Empiricism and Criticism with special reference to the following problems: source, nature, validity and limits of knowledge.
4. Types of knowledge: *a priori* and *a posteriori*; Analytic and Synthetic propositions; Synthetic *a priori* judgment.

Second Term

5. Mind and its relation to object: Idealism and Realism with special reference to Berkeley's Subjective Idealism; Locke's Representative Realism; Neo-realism and Critical Realism.
6. Nature and Criteria of Truth: Coherence, Correspondence and Pragmatic theories of truth.
7. Problem of Induction: Hume's Problem and its main solutions: Probability theory, Hypothetico-deductive method, Pragmatic and Linguistic solutions.

Third Term

8. Skepticism: Hume's Skepticism and its impact on Contemporary Western Philosophy.
9. Personal Identity; knowledge of other minds and its various solutions.
10. Problem of Universals: Realism, Conceptualism, Nominalism and Linguistic theory.

Suggested Readings

1. D.W. Hymlyn : Theory of knowledge
2. J. Hospers : An introduction of philosophical Analysis (Hindi edition available)
3. A.J. Ayer : Problem of Knowledge
4. L.P. Pojman (Ed.): Theory of Knowledge
5. R. M. Chisholm : Theory of Knowledge
6. H. S. Upadhyaya : 1. Jnanamimamsa Ke Moola Prashna
2. Knowledge and Justification
7. S. K. Seth and Nilima Misra : Jnanamimamsa

Paper II

Philosophy of Religion

First Term

1. Nature and scope of Philosophy of Religion; Distinction between Philosophy of Religion and Theology; Religion and **Morality.**
2. The possibility of Religion without God with special reference to Taoism, Jainism, Buddhism and **Humanism.**
3. **Nature of God: Personal, Impersonal and Naturalistic.**
4. Relation between God and world: Deism, Theism, Pantheism and Panentheism.
5. Foundations of Religious Belief: Faith, Reason, Revelation and Mystical Experience.

Second Term

6. Traditional Arguments for the existence of God: Ontological, Cośmological, Teleological, Moral Argument and Argument based on Religious Experience.

7. The problem of Evil and its various solutions.
8. Immortality of Soul; Transmigration and the doctrine of Karma.

Third Term

9. Destiny of Soul: Salvation and Moksa; pathways to Moksa: Jnana; Bhakti; Karma and Yoga.
10. Religious Tolerance; Religious Pluralism; Conversion; Secularism and the meeting point of all Religions.
11. Religious Language: Cognitive, Non-Cognitive and Analogical Theory.

Suggested Readings

1. Ed. M. Miller : God and Reason: A Historical Approach to Philosophical Theology
2. J. Hick : Philosophy of Religion
3. L.N. Sharma : Dharma Darshan
(Hindi edition available)
4. Rishi Kant Pandey : Darshanika Vimarsh
6. S. K. Seth and Nilima Misra : Ishvar Swatantrata Evam
Amaratva : Ek Tattva Darshanik
Adhyayan

Paper III

Socio-Political Philosophy

First Term

1. The Nature of Social Philosophy and its relation to Sociology, Social Psychology, Politics and Ethics.
2. Social Institutions: Nature and Kinds of Family and State.
3. Theories concerning the relation of Individual and State.
4. Gender Equality.

Second Term

5. Theories of Punishment : Reformatory, Deterrent, Retributive theories and the Issue of Capital Punishment.
6. Political Ideologies: Democracy, Socialism, Indian Socialism, Communism & Gandhian Anarchism
7. Social and Political Concepts: Freedom, Justice, Equality Sovereignty and Right.

Third Term

8. Method of Social Change: Constitutionalism, Revolution, Terrorism and *Satyāgraha* (Violent and non-Violent)
9. Tradition, Change and Modernity with special reference of *Varna*, *Ashrama* and *Jāti*.
10. **Humanism: Indian and Western-Basic features of Humanism as a Socio-Political theory.**

Suggested Books

1. G.H. Sabine : A History of Political Theory
2. G. Sabine : Rajnitik Siddhant Ka Itihas
(Hindi edition available)
3. Joshi & Pant : Paschatya Raj Darshan
4. Robert N. Beck : A Hand Book in Social Philosophy
5. Jata Shankar : Vedanti Samajavada
6. S.L. Pandey : Samaj Darshan Ki Ek Pranali
7. V. P. Verma : Philosophical Humanism and
Contemporary India.

**Curtailed/Reduced Syllabus of
MA, Philosophy
(Semester I, II, III and IV)**



**DEPARTMENT OF PHILOSOPHY
UNIVERSITY OF ALLAHABAD, PRAYAGRAJ**

Semester – I

PHI - 501: Classical Indian Philosophy - I

(L-T-P-C: 3-2-0-5)

Objective: The objective of the course is to engage the students with a detailed study of the epistemology and metaphysics of the Upanisads as well as the Classical Heterodox Indian Philosophies.

Unit-I

Philosophy of Upanisads

- 1.1. Nature of Ultimate Reality
- 1.2. Nature of Soul
- 1.3. Nature of World

Unit-II

Philosophy of the Charvaka

- 2.1. Theory of Knowledge
- 2.2. Materialism
- 2.3. Ethics

Unit-III

Philosophy of the Jaina

- 3.1. Theory of Knowledge
- 3.2. Substance
- 3.3. Bondage and Liberation

Unit-IV

Philosophy of the Buddha

- 4.1 Theory of Dependent Origination
- 4.2 Momentariness
- 4.3 No Soul Theory
- 4.4 Theory of Nirvana

Suggested Readings

1. Sharma, C.D., *A Critical Survey of Indian Philosophy*
2. Hiriyana, M., *Outlines of Indian Philosophy*
3. Raju, P.T., *Structural Depth of Indian Thought*
4. Pandey, S.L., *Bhartiya Darshan Ka Sarvekshana*
5. Devraj, N.K., *Bhartiya Darshan*

PHI – 502: Classical Western Philosophy

(L-T-P-C: 3-2-0-5)

Objective: The course aims to acquaint the students with a historical and critical understanding of the philosophical conceptions, questions, and theories discussed by the ancient Greek philosophers whose thoughts lay the foundation for Western Philosophy.

Unit - I

- 1.1 Development and Characteristics of Greek Philosophy
- 1.2 Thales, Anaximander, Anaximenes and Pythagoras: Substance and Cosmology

Unit - II

- 2.1 Heraclitus: The Logos, Flux and Opposites, Substance
- 2.2 Parmenides and Zeno: The Two Ways, Theory of Being and Zeno's Paradoxes of Plurality and Motion

Unit - III

- 3.1 Anaxagoras and Democritus: Elements and Atomism, Change and Transformation
- 3.2 Gorgias and Protagoras: Rhetoric, Ethics, Relativism

Unit - IV

- 4.1 Socrates: Refutation of Rhetoric (Elenchus), Socratic Method, Knowledge and Virtue
- 4.2 Plato: Knowledge and Belief, Theory of Form and its criticism by Aristotle, Soul

Unit-V

Suggested Readings

1. Burnet, John, *Greek Philosophy*.
2. Stace, W. T., *A Critical History of Greek Philosophy*.
3. Zeller, Eduard, *Outlines of Greek Philosophy*.
4. Krishna, Daya (ed.), *Pashchatya Darshan*, Part I.
5. Tripathy, C. L., *Greek Darshan*

PHI – 503: Modern Western Philosophy - I

(L-T-P-C: 3-2-0-5)

Objective: The paper aims to explain the contributions of two Modern Western Philosophers, namely, Immanuel Kant and Hegel.

Unit- I

- 1.1 Reconciliation of Rationalism and Empiricism
- 1.2 The possibility of synthetic *a priori* judgments
- 1.3 Copernican revolution in Kant's Philosophy

Unit- II

- 2.1 Transcendental synthetic unity of pure apperception
- 2.2 The doctrine to things in themselves
- 2.3 Kantian Agnostism

Unit- III

- 3.1 Idea of Reason
- 3.3 The refutation of the classical proofs for the existence of God

Unit- IV

- 4.1 Development of German Idealism from Kant to Fichte, Schelling and Hegel
- 4.2 Hegelian Dialectic
- 4.3 Absolute Idealism

Suggested Readings

- 1. Smith, N. K., *A Commentary on Kant's Critique of Pure Reason*.
- 2. Mukherjee, A. C., *Self, Thought and Reality*.
- 3. Conner, D.J.O., *A Critical History of Western Philosophy*.
- 4. Upadhyaya, H S, *Paschatya Darsan Ke Udbhav Aur Vikas*.
- 5. Pandey, S. L., *Kant Ka Darsan*

PHI – 551: Philosophy of Religion (Elective)

(L-T-P-C: 3-2-0-5)

Objective: The aim of this paper is to discuss the basic concepts of the Philosophy of Religion, for example, Religion, Dharma, Theology, God and Foundations of religious belief.

Unit- I

Religion & Dharma

- 1.1 Nature and Scope of Religion
- 1.2 Distinction between Religion and *Dharma*
- 1.3 Religion and Morality

Unit- II

Philosophy of Religion

- 2.1 Nature of scope of Philosophy of Religion
- 2.2 Distinction between Philosophy of Religion and Theology
- 2.3 Natural Theology and Revealed Theology

Unit- III

Nature of God

- 3.1 Naturalistic
- 3.2 Personal
- 3.3 Impersonal

Unite- IV
Arguments for the existence of God

- 4.1 Ontological Argument
- 4.2 **Cosmological Argument**
- 4.3 Teleological Argument
- 4.4 **Moral Argument**

Unite- V
Foundations of Religious Belief

- 5.1 Reason
- 5.2 Faith
- 5.3 Revelation
- 5.4 Mystical Experience

Suggested Readings

1. Miller, Edward L., *God and Reason*.
2. Hick, John, *Philosophy of Religion*.
3. Masih, Y., *Introduction to Religious Philosophy*
4. Verma, V.P., *Dharma Darshana Ki Mule Samasyaye*
5. Pandey, Rishi Kant, *Dharma Darshana*

PHI - 552: Philosophy of Buddhism (Elective)

(L-T-P-C: 3-2-0-5)

Objectives: The objective of this course is to make sense of the teachings of Buddhism. Beginning with the legend of Buddha and his basic teachings this course focuses on its Scriptures, doctrinal developments and Epistemology.

Unit-I

- 1.1 **Nirvana**
- 2.2 Bodhisattva
- 3.3 Apohavada
- 4.4 Distinction between Hinayana and Mahayana

Unit-II

- 2.1 Vaibhasika School of Buddhism
- 2.2 Sautrantika School of Buddhism
- 2.3 Madhyamika School of Buddhism
- 2.4 Yogacara School of Buddhism

Unit- III

- 3.1 Valid Knowledge (prama)
- 3.2 Method of Knowledge (pramana)
- 3.3 Validity of Knowledge (Pramanyavada)

Unit- IV

- 4.1 Perception and its Kinds
- 4.2 Inference and its kinds
- 4.3 Rejection of other pramanas

Suggested Readings

- 1. Murti, T.R.V., *The Central Philosophy of Buddhism*.
- 2. Sharma, C.D., *A Critical Survey of Indian Philosophy*
- 3. Stcherbatsky, Th., *The Central Conception of Buddhism*
- 4. Stcherbatsky, Th., *Buddhist Logic, Vol.1 & II*.
- 5. Chatterjee, A. K., *The Yogacara Idealism*.

PHI – 553: Advanced Normative Ethics and Virtue Ethics (Elective)

(L-T-P-C: 3-2-0-5)

Objectives: The paper aims at disseminating the progress made in contemporary Normative Ethics and Virtue Ethics.

Unit- 1

Act and Rule consequentialism.

- 1.1 Basic features of Act- consequentialism and critical estimate.
- 1.2 Basic features of Rule- consequentialism and critical estimate.

Unit- II

Act and Rule Utilitarianism

- 2.1 Basic features of Act- utilitarianism and critical estimate.
- 2.2 Basic features of Rule- utilitarianism and critical estimate.

Unit- III

Act and Rule Deontology

- 3.1 Basic features of Act- deontology and critical estimate.
- 3.2 Basic features of Rule- deontology and critical estimate.

Unit- IV

Theories of Virtue Ethics

- 4.1 Basic features of Eudaemonist Virtue Ethics and critical estimate.
- 4.2 Basic features of Agent-Based Virtue Ethics and critical estimate.

Suggested Readings

- 1 Verma, Ved Prakash, *Neetishastra ke mula siddhant*.
- 2 Pandey, Sangamlal, *Neetishastra ka sarvekshan*.
- 3 Brandt, Richard B, *Ethical Theory*.
- 4 Frankena, William K, *Ethics*.
- 5 Hurka, Thomas, *Virtue, Vice and Value*.

Semester – II

PHI – 511: Classical Indian Philosophy

(L-T-P-C: 3-2-0-5)

Objective: The objective of this paper is to give comprehensive and critical account of the various orthodox systems of Classical Indian philosophy. It further attempts to evaluate a few aspects of epistemology, logic and metaphysics of the above mentioned systems.

Unit- 1

Nyaya Philosophy

- 1.1 The nature and forms of knowledge (Jnana); valid knowledge and the methods of valid knowledge (Prama and Pramana).
- 1.2 Perception, Inference, Verbal Testimony and Comparison.

Unit- II

Vaisesika Philosophy

- 2.1 Padarthas: substance (dravya), Quality (guna), Action (karma).
- 2.2 Generality (samanya), Particularity (visesa), inherence (samavaya) and Non-existence (abhava).

Unit- III

Sankhya Philosophy

- 3.1 Theory of Knowledge.

Unit- IV

Yoga Philosophy

- 4.1 Citta and its modification.
- 4.2 Cittabhumi, Astanga Yoga, Samadhi.
- 4.3 The Place of God in Yoga.

Unit- V

Mimamsa Philosophy

- 5.1 Nature of Knowledge, Sources of Valid Knowledge.
- 5.2 Perception, Inference, Verbal Testimony, Comparison, Postulation and Non-Postulation.
- 5.3 Theories of Error

Suggested Readings

1. Sharma, C.D., *A Critical Survey of Indian Philosophy*
2. Hiriyanna, M., *Outlines of Indian Philosophy*
3. Devaraj, N.K., *Bhartiya Darshan*
4. Pandey, S.L., *Bhartiya Darshan ka Sarvekshan*
5. Raju, P.T., *Structural Depths of Indian Thought*
6. Radhakrishnan, S., *Indian Philosophy, Vol. 1*

PHI – 512: Modern Western Philosophy

(L-T-P-C: 3-2-0-5)

Objective: The objective of the paper is to critically examine the fundamental theories of Bradley, James, Moore, Perry and Russell, viz., the distinction of appearance and reality, the absolute, the pragmatic theory of truth, radical empiricism, the refutation of idealism, logical construction and logical atomism.

Unit- I

- 1.1 Bradley's doctrine of Appearance.
- 1.2 Refutation of Primary and Secondary Qualities.
- 1.3 Criticism of Relation and Quality.

Unit- II

- 2.1 The concept of Absolute.
- 2.2 The Nature of Thought.
- 2.3 The Nature of Judgment and Reality.

Unit- III

- 3.1 Development of Pragmatism as a system of Philosophy.
- 3.2 William James theory of Radical Empiricism.
- 3.3 The Pragmatic Theory of Truth.

Unit- IV

- 4.1 Moore's Refutation of Idealism.
- 4.2 Defense of Common sense knowledge.
- 4.3 The Refutation of Idealism by R.B. Perry.

Suggested Readings

1. Urmson, J.O., *Philosophical Analysis*
2. Warnock, G.J., *English Philosophy since 1900*
3. Passmore, John, *A Hundred Years of Philosophy*
4. Connor, D.J.O., *A Critical History of Western Philosophy*
5. Upadhyaya, H.S., *Paschatya Darsana Ke Udbhava aur Vikasa*

PHI – 513: Phenomenology and Existentialism

(L-T-P-C: 3-2-0-5)

Objective: The objective of the paper is to critically examine the basic issues of phenomenology and existentialism, such as, intentionality, subjectivity, authenticity, choice, being, time, freedom, existence and God.

Unit- I

Edmund Husserl

- 1.1 Concept of Phenomenology.
- 1.2 Critique of Naturalism and Psychologism.
- 1.3 Intentionality of Consciousness.

Unit- II

Martin Heidegger

- 2.1 Concept of Man as Being & Concept of Time.

- 2.2 Authenticity and In authenticity, Anxiety and Death.
- 2.3 Necessity and Freedom, Transcendental Homelessness

Unit- III
Soren Kierkegaard

- 3.1 Theistic Existentialism.
- 3.2 Truth as Subjectivity.
- 3.3 Stages of Existence: Aesthetic Stage, Ethical Stage and Religious Stage.

Unit- IV
Jean Paul Sartre

- 4.1 Atheistic Existentialism, Existence and Essence.
- 4.2 **Freedom and Responsibility**, Bad Faith, Concept of Man.
- 4.3 Existentialism and Humanism.

Suggested Readings

1. Moran, Dermot, *An Introduction of Phenomenology*.
2. Maecan, C., *Four Phenomenologist Thinkers*.
3. Blackham, A.J., *Six Existential Thinkers*.
4. Solomon, Rebert, *From Rationalism to Existentialism*.
5. Bhadra, M.K., *A Critical Survey of Phenomenology and Existentialism*.
6. Saxena, Laxmi, *Samkalin Paschatya Darshan*.

PHI – 561: Contemporary Religious Problems (Elective)

(L-T-P-C: 3-2-0-5)

Objective: The objective of the paper is to critically examine the various contemporary religious problems and their practical value to establish social order and harmony in the society, like Religious pluralism, tolerance, conversion, Unity of all religions and Secularism.

Unit- I
Religious Pluralism

- 1.1 Religious exclusiveness.
- 1.2 Progressive revelation.
- 1.3 Duck-Rabbit Illusion.
- 1.4 Reformed epistemology.

Unit- II
Religious Tolerance

- 2.1 Roots of Religious Tolerance.
- 2.2 Various meanings of Religious Tolerance.
- 2.3 Means of Religious Tolerance.
- 2.4 Foundations of Religious Tolerance.

Unit- III
Secularism

- 3.1 Emergence of Secularism.

- 3.2 Indian and Western Secularism.
- 3.3 Triangular relation between Individual, State and Religion.
- 3.4 Civil Religion.

Suggested Readings

- 1. Coward, Harold G., *Religious Pluralism and the World Religion*.
- 2. Pannikar, Raymond, *The Intra Religious Dialogue*.
- 3. Das, Bhagawan, *The Essential Unity of All Religions*.
- 4. James, William, *The Varieties of Religious Experience*.
- 5. Bhargava, Rajeev., *Secularism and its Critics*.
- 6. Masih, Y., *Introduction to Religious Philosophy*.
- 7. Pandey, Rishi Kant, *Dharma Darshan*

PHI – 562: Philosophy of Mind (Elective)

(L-T-P-C: 3-2-0-5)

Objective: The paper aims to acquaint the students with two metaphysical problems of mind, viz., the problem consciousness (subjectivity, intentionality etc.) and the mind-body problem (monism, dualism etc.) and one epistemological problem viz., mental knowledge (self-knowledge and knowledge of other minds).

Unit- I

- 1.1 What is the Philosophy of mind? Characterization of mind and the mental phenomena.
- 1.2 Mind and Consciousness.

Unit- II

- 2.1 Mind–body relationship: Dualism-Substance Dualism, Property Dualism.
- 2.2 Mind–body relationship: Non-reductive Monism-Idealism, Type-Identity Theory.

Unit- III

- 3.1 Mind–body relationship: Reductive Monism-Materialism, Behaviorism.
- 3.2 Mind and Computer: Turing Test and Chinese room Argument.

Unit- IV

- 4.1 Self -knowledge.
- 4.2 Knowledge of other’s mind.

Suggested Readings

- 1. Chalmers, David (ed.), 2009, *Philosophy of Mind: Classical and Contemporary Readings*, Oxford University Press, New Delhi
- 2. Davies, Martin, 1998, “The Philosophy of Mind”, in A. C. Grayling (ed.), *Philosophy I: A Guide through the Subject*, Oxford University Press
- 3. Heil, John, 2004, *Philosophy of Mind: A Contemporary Introduction*, Routledge, New York.
- 4. Shaffer, Jerome A., 1994, *Philosophy of Mind*, Prentice Hall Hall, New Delhi.
- 5. Mandik Pete, *This is Philosophy of Mind*, Wiley Blackwell.

PHI – 563: Environmental Ethics (Elective)

(L-T-P-C: 3-2-0-5)

Objective: The paper aims at enriching our moral perception of environment, natural and built-in; and enables us to resolve value-crises in man-nature interface.

Unit- I

Nature of Environmental ethics and its concern for values.

- 1.1 Nature of Environmental Ethics and major issues.
- 1.2 The Intrinsic-Extrinsic-Inherent value of nature.

Unit- II

Anthropocentrism and Speciesism.

- 2.1 Basic features of Anthropocentrism and its critical evaluation.
- 2.2 Basic features of speciesism and its critical evaluation.

Unit- III

Biocentrism and Ecocentrism.

- 3.1 Basic features of Biocentrism and its critical evaluation.
- 3.2 Basic features of Ecocentrism and its critical evaluation.

Unit- IV

Theory of Social Ecology and Ecofeminism.

- 4.1 Basic features of social ecology and its critical evaluation.
- 4.2 Basic features of Ecofeminism and its critical evaluation.

Suggested Readings

1. Mishra, H.N., *Paryavaraniya Neetishastra*.
2. Chaurasia, M. P., *Anuprayukta Neetishastra*.
3. Light, Andrew and Roslston, Holmes, *Environmental Ethics: An Anthology*.
4. Tiwari, D. N. and Mishra, Ananda (Eds), *Environmental Ethics: Indian Perspectives*.

Semester – III

PHI – 601: Analytical Philosophy

(L-T-P-C: 3-2-0-5)

Unit- 1

Wittgenstein's Tractatus-Logico-Philosophicus

- 1.1 Logical atomism.
- 1.2 Elementary Proposition.
- 1.3 The world is the totality of facts, not of thing.

Unit- II

- 2.1 Picture theory meaning.
- 2.2 Truth-functional theory.
- 2.3 Critical estimate of Picture theory.

Unit- III

Ayer's Logical Positivism

- 3.1 Elimination of Metaphysics.
- 3.2 Verification theory of meaning.
- 3.3 Critical estimate of Verification theory.

Suggested Readings

1. Wittgenstein, Ludwig , *Tractatus-Logico-Philosophics*.
2. Pitcher, George, *The Philosophy of Wittgenstein*.
3. Ayer, A.J., *Language, Truth & Logic*.
4. Passmore, John., *A Hundred Years of Philosophy*.
5. Pandey, Rishi Kant, *Speech Act and Linguistic Communication*.

PHI – 602: Contemporary Indian Philosophy

(L-T-P-C: 3-2-0-5)

Unit- I

Practical Vedanta of Vivekananda

- 1.1 Classical Vedanta Vs. Practical Vedanta
- 1.2 Brahman, God, Jagat, Atman and Moksha

Unit- II

Sri Aurobindo

- 2.1 Integral Vedanta of Sri Aurobindo
- 2.2 Theory of evolution

Unit- III

K.C. Bhattacharya

- 3.1 Concept of Philosophy
- 3.2 Critical appraisal

Unit- IV
Radhakrishnan

- 4.1 Theory of Reality
- 4.2 Human Destiny

Suggested Readings

1. Laxmi Saxena, *Samkalin Bhartiya Darshan*.
2. Sri Aurobindo, *Life Divine and Human Cycle*.
3. Swami Vivekananda, *Complete Works*.
4. S. Radhakrishnan, *An idealist view of life*.
5. A.C. Mukherji, *The Nature of Self*.
6. S.L. Pandey (Ed), *The Problems of Depth Epistemology*.
7. B.K. Lal, *Samkalin Bhartiya Darshan*.
8. Jata Shankar, *Vedanti Samajvada* (in Hindi)

PHI – 603: Advanced Meta-ethics
(L-T-P-C: 3-2-0-5)

Objective: The paper aims at discussing the major trends in Contemporary Metaethics.

Unit- I

Ethical Cognitivism

- 1.1 Ethical Subjectivism of Edward Westermarck.
- 1.2 Ethical Intuitionism of G.E. Moore.

Unit- II

Ethical Non-Cognitivism

- 2.1 Emotive Theory of A.J. Ayer.
- 2.2 Emotive Theory of C.L. Stevenson.

Unit- III

Prescriptivism and Multifunctionalism

- 3.1 Prescriptivism of R.M. Hare.
- 3.2 Multifunctionalism of P.H. Nowell-Smith.

Unit-IV

Argument from Good Reasons and Neo-Naturalism

- 4.1 Good reasons argument of Stephen Toulmin.
- 4.2 Neo-Naturalism of Philippa Foot.

Suggested Readings

1. Verma, V.P., *Adhinitishastra ke Mukhya Siddhant*.
2. Saxena, L., *Neetivigyan ke Mool Siddhant*.
3. Hudson, C.W.D, *Modern Moral Philosophy*.
4. Franken, W. K., *Ethics*.

PHI – 651: Philosophy of Samkara (Elective)

(L-T-P-C: 3-2-0-5)

Unit- I

Foundations of Advaita Vedanta.

- 1.1 Pre Samkara Advaita Vedanta.
- 1.2 Role of Shruti, Smriti and Reason.

Unit- II

Adhyasa Bhashya

- 2.1 Origin of the Problem.
- 2.2 Critical appraisal.

Unit- III

Athato Brahmjijnasa

- 3.1 Brahmjijnasa vs. Dharmajijnas
- 3.2 Critical appraisal

Unit- IV

Janmadyasya Yatah and Shastra Yonitvat

- 4.1 Tatastha Lakshana and Swaroop Lakshana
- 4.2 Critical appraisal of Causality

Suggested Readings

1. Sankaracarya, *Sarirakabhasya*, (*Catuhstuti, Smrtipada and Tarkapada*)
2. Paul Deussen, *The System of Vedanta*.
3. S.L. Pandey, *Pre-Samkara Advaita Philosophy*.
4. R.L. Singh, *An Enquiry Concerning Reason in Kant and Samkara*
5. Narendra Singh, *Mayavada ke Adhunik Khandan ki Samiksha*

PHI – 652: Philosophy of Immanuel Kant (Elective)

(L-T-P-C: 3-2-0-5)

Unit- 1

- 1.1 The Idea of criticism and its reconciliation of the theories of Rationalism and Empiricism.
- 1.2 Synthetic apriori Judgments.
- 1.3 Copernicus Revolution in Philosophy.

Unit- II

- 2.1 The main contentions of the transcendental Aesthetic and The Transcendental Analytic.
- 2.2 The Refutation of Idealism.
- 2.3 The theory of the Transcendental synthetic unity of Apperception.

Unit- III

- 3.1 The transition from Pure to Practical Reason- The Problem of freedom and Necessity.
- 3.2 The postulates of Morality.
- 3.3 The notions of the Good Will and the Idea of Duty- the Categorical Imperative.

Unit- IV

- 4.1 Criticism of Kant's theory of Morality.
- 4.2 The Transcendental Aesthetic.
- 4.3 The Relation between the Three Critiques.

Suggested Readings

1. Immanuel Kant, *Critique of Pure Reason*.
2. Immanuel Kant, *Critique of Practical Reason*.
3. Immanuel Kant, *Critique of Judgment*.
4. Smith, N.K., *A commentary on the Critique of Pure reason*.
5. Caird, E., *The critical Philosophy of Kant*.
6. Mishra, Sabhajit. *Kant Ka Darshan*.
7. Verma, Ved Prakash, *Neeti Shastra Ka Parichay*

Semester – IV

PHI – 661: Ordinary Language Philosophy

(L-T-P-C: 3-2-0-5)

Unit- I

Later Work of Wittgenstein

- 1.1 Criticism of Wittgenstein earlier views.
- 1.2 Meaning and Use.

Unit- II

- 2.1 Language game theory.
- 2.2 Private language.

Unit- III

J.L. Austin

- 3.1 Constative and Performative Utterance.
- 3.2 Criterion for Happy Performatives.
- 3.3 Speech Act theory.

Unit- IV

P.F. Strawson

- 4.1 Theory of Person.
- 4.2 Basic Particular.

Suggested Readings

1. Wittgenstein, Ludwig, *Philosophical Investigations*.
2. Miler, Alexander, *Philosophy of Language*
3. Strawson, P.F., *Individual*.
4. Quine, W.V.O., *Word and Object*.
5. Austin, J.L., *A Hundred Years of Philosophy*.
6. Pandey, Rishi Kant, *Speech Act and Linguistic Communication*.

PHI – 612: Professional Ethics

(L-T-P-C: 3-2-0-5)

Unit- I

Clarification of basic concepts

- 1.1 Nature of Profession & Professional Ethics.
- 1.2 Administration, Management, Governance and Value-based Administration, Management and Governance.

Unit- II

Foundational Values Across Profession

- 2.1 Integrity and Impartiality.
- 2.2 Objectivity and Commitment.

Unit- III

Foundational Administrative Values

- 3.1 Accountability and Conscientiousness.
- 3.2 Empathy and Tolerance.

Unit- IV

Foundational Values in Governance

- 4.1 Probity and transparency.
- 4.2 Emotional Intelligence.

Suggested Readings

- 1. C. Hodgkinson, *Administrative Philosophy*.
- 2. D. Waldo, *The Enterprise of Public Administration*.
- 3. D. Guha, *Practical and Professional Ethics, Volumes 1 & 5*.
- 4. S. K. Chakraborty, *Management by Values*.

PHI – 613: Socio-Political Philosophy

(L-T-P-C : 3-2-0-5)

Unit –I

Mahatma Gandhi

- 1.1 Gandhian notion of Truth and Non-Voilence (Satya and Non-Voilence)
- 1.2 Gandhian Critique of Modern Civilization
- 1.3 Concept of Sarvodaya

Unit–II

Pandit Dindayal Upadhyay

- 2.1 Ekatmamanavavad (Integral Humanism)
- 2.2 Concept of Purusartha
- 2.3 Geo- Cultural Nationalism (Bhu-Samskritika Rastravada)

Unit –III

Dr. Bhim Rao Ambedakar

- 3.1 Annihilation of Caste Systems
- 3.2 Criticism of Hinduism
- 3.3. Concept of Neo-Budhism

Unit –IV

Narayan Guru

- 4.1 The Spritual Freedom and Social Equality
- 4.2 Concept of One caste

4.3 Concept of One Religion and One God

Suggested Readings:

- 1- Mahadeva Prasad : Gandhian Social Philosophy, , (Hindi Translation by (fo'.kqdkUr "kkL=h) Vishnukant Shastry, Mahatma Gandhi ka Samaj Darshan (egkRek xkW/kh dk lekt n"kZu)
- 2- Ramji Singh, Bihar Hindi Granth Academy, Patana : Gandhi Darshan Mimansa (xkW/kh n"kZu ehekalk)
- 3- eqdsZkV dqUuglik (fgUnh vdkneh /keZiky xkWa/kh] us"kuycqdV^aLV bfUM;k (1985) : Jhukjk;.kxq:
4. (alaiknd) lat; f}osnh : Hkkjrh;rk dk lapkjd nhun;ky mik;/k;
5. fo"oukFk izlkn oekZ : vk/kqfud Hkkjrh; jktuhfrd fparu
6. R.C. Vermani : Modern Political Theories
7. R.N. Baski : Political Ideologies
8. Dayakrishna (Ed.) : Essays in Political Philosophy

PHI – 661: Symbolic Logic (Elective)

(L-T-P-C: 3-2-0-5)

Objective: The paper aims to acquaint the students with various tools and techniques to symbolize the propositions and various methods and procedures to test the validity and invalidity of arguments in the main branches of Symbolic Logic, viz., Propositional Logic, Predicate Logic and Relational Predicate Logic.

Unit-I

- 1.1 Symbolization in Propositional Logic: Atomic and Simple and Compound Proposition, Variable and Constants, Parentheses, Truth-Functions, Symbolizing Complex Propositions.
- 1.2 Truth Tables: Computing Truth-Values, Truth Tables for Determining Tautologies, Contradictions and Contingent Propositions and Logical Equivalences, Truth Table Test for Validity, Shorter Truth Table Test for Invalidity.

Unit-II

- 2.1 Argument Forms, Substitution Instances Rules of Inference, Rule of Replacement.
- 2.2 Proof, Conditional Proof, Indirect Proof, the Limitations of Propositional Logic.

Unit-III

- 3.1 Symbolization in Predicate Logic: Individual and Properties, Free and Bound Variables, Universal Quantifiers, Existential Quantifiers.
- 3.2 Symbolization of Singular Proposition.

Unit-IV

- 4.1 Predicate Logic Semantic: Expansions. Validity in Predicate Logic, Proving Invalidity in Predicate Logic.
- 4.2 Predicate Logic Proof: Proving Validity, Four Quantifier Rules, Restrictions on Quantifier Rules, Quantifier Negation.

Suggested Readings

1. Basson, A. H. and D. J. O'Connor, 1993, *Introduction to Symbolic Logic*, Oxford University Press, New Delhi
2. Copi, I. M., 2008, *Symbolic Logic* (5th Edition), Pearson Education, New Delhi.
3. Hausman, Alan, Kahane, Howard and Tidman, Paul, 2007, *Logic and Philosophy: A Modern Introduction*, Thomson, Wadsworth, USA.
4. Suppes, Patrick, 1957, *Introduction to Logic*, East-West Press, New Delhi.
5. Verma, Ashok Kumar, 1999, *Pratikatmak Tarkashastra: Prabeshika*, (in Hindi), Motilal Banarasidas, New Delhi.

PHI – 662: Indian Ethics (Elective)

(L-T-P-C: 3-2-0-5)

Unit- I

Indian Meta-ethics

- 1.1 Rta and Satya
- 1.2 Rna and Yajna
- 1.3 Karma, Karma phala and Karma bandhan.

Unit- II

Values and Virtues in Indian Philosophy

- 2.1 The discussion of purusarthas as basic human values.
- 2.2 The debate about moksa as Supreme Value.
- 2.3 The classification of sadguna and durguna after Vatasayana, Patanjali, Jaina's and Buddha's

Unit- III

Normative theories in Indian Ethics

- 3.1 The discussion of moral ideal as istasiddhi and the theories of sukhavada and sreyovada.
- 3.2 The Hedonic ethics propounded by Lokayata Philosophy
- 3.3 The normative ideal propounded in Bhagavadgita and synthesis of teleology and deontology.

Unit- IV

Indian Practical Ethics

- 4.1 An overview of Indian Environmental Ethics.
- 4.2 An outline of the practical Vedanta as advocated by Swami Vivekananda
- 4.3 Basic features of the Sarvodaya centered practical ethics of Gandhi

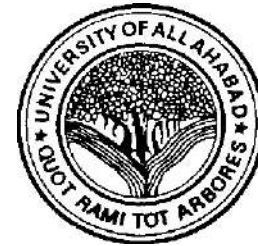
Suggested Readings

1. Sharma, I.C., *Ethical Philosophies of India*.

2. Tiwari, K.N., *Classical Indian Ethical Thought*.
3. Barlingay, S.S., *A Modern Introduction to Indian Ethics*.
4. Maitra, S.K., *The Ethics of the Hindus*.
5. Pandey, S.L., *Neetisastra ka Sarsvekshan*.
6. Verma, A.K., *Neeti Shastra Ki Ruprekha Nityananda Mishra*.
7. Misra Nityananda, *Neeti Shastra*.

Faculty of Arts

**DEPARTMENT
OF
POLITICAL SCIENCE**



UNIVERSITY OF ALLAHABAD

Syllabus

B.A. III

2013-14

B.A. PART-III

PAPER I

INDIAN POLITICAL THOUGHT

UNIT -I

Main Features of Ancient Indian Political Thought, Political Ideas of Manu and Kautilya .

UNIT-II

Main Features of Jain and Buddhist Political Thought, Political Ideas of the Mahabharat - Origin of State, Elements of State, Nature of State, Inter-state Relations and Political Morality.

UNIT - III

Indian Renaissance and Political Ideas of Raja Ram Mohan Roy, Dayanand Saraswati and Vivekanand.

UNIT- IV

Political Ideas of Bal Gangadhar Tilak, Aurobindo Ghosh, M.N. Roy and Jay Prakash Narayan.

UNIT-V

Jawaharlal Nehru, Mahatma Gandhi and B.R. Ambedkar.

BOOKS RECOMMENDED:

- | | | |
|---|---|---|
| A.S. Altekar | : | State and Government in Ancient India (English and Hindi) |
| Beni Prasad | : | Theory of Government in Ancient India |
| Bidyut Chakrabarty & Rajendra Pandey | : | Modern Indian Political Thought (English & Hindi) |
| B.M. Sharma, R.K.D. Sharma, Savita Sharma | : | Bhartiya Rajnitik Vicharak |
| K. P. Jaiswal | : | Hindu Polity |
| Parmatama Sharan | : | Prachin Bharatiya Rajnitik Chintan |
| Ram Ratan, Ruchi Tyagi | : | Indian Political Thought |
| Sankar Ganesh | : | Modern Indian Political Thinking |
| V.P. Verma | : | Ancient and Medieval Indian Political Thought |
| V.P. Verma | : | Modern Indian Political Thought (English/Hindi) |
| U.N. Ghoshal | : | History of Indian Political Ideas |
| V.R. Mehta | : | Formation of Indian Political Thought |
| Pantham T. and Deutsch, K. | : | Modern Indian Political Thought |

**B.A. PART-III
PAPER II**

**PUBLIC ADMINISTRATION WITH SPECIAL
REFERENCE TO INDIA**

UNIT-I

Meaning, Scope & Significance of Public Administration. NPA & NPM.
Organisation- Meaning, Types & Bases.
Principles of Organisation- (i) Span of Control, (ii) Unity of Command (iii) Hierarchy, (iv) Centralisation & De centralisation.

UNIT-II

Ecology of Indian Administration- (i) Constitution of India (ii) Parliamentary Democracy (iii) Federalism (iv) Planning (v) Socialism.
Structure of Organisation- (i) Central Secretariat (ii) Cabinet Secretariat (iii) PMO
Centre-State Relations-(i) Legislative (ii) Administrative (iii) Financial (iv) Recent Developments

UNIT-III

Planning Commission-(i) History & Growth (ii) Organisation (iii) Role & Importance (iv) NDC (v) Impact of Liberalisation.
Public Sector Undertakings-(i) History & Growth (ii) Classifications (iii) Role & Relevance in the post-Liberalisation era.
Parliamentary Control over Financial Administration-

(i) Public Accounts Committee (ii) Estimates Committee (iii) Committee on Public Undertakings (iv) Comptroller & Auditor General.

UNIT-IV

Growth of Civil Service in India- (i) History (ii) Types, Classification & Methods of Recruitment (iv) UPSC (v) Role, Importance & Problems of Indian Civil Service.
District Administration & OM.
Rural & Urban Local Self Government with special reference to 73rd & 74th Constitutional Amendment Acts.

UNIT-V

Welfare Administration for SC, ST & Women.
Important Issues in Indian Administration-(i) Generalist-Specialist Controversy (ii) Problem of Corruption (iii) Redressal of Public Grievances (iv) Lok Pal & Lokayukta (v) Minister- Civil Servant Relationship.

Books Recommended

Bhattacharya, Mohit: New Horizons of Public Administration, Jawahar Publishers and Distributions, New Delhi.
Bhattacharya, Mohit: Public Administration: Structure, Process and Behavior, The World Process Pvt. Ltd. Kolkata.
Arora, Ramesh K. : Public Administration: Fresh Perspectives, Aalekh Publishers Jaipur.
Bhagwati, Jagdish, 1995, India in Transition, Claredon Press, Oxford.

Das, S. K., 1998, Civil Service Reform and Structural Adjustment, Oxford University Press, New Delhi.

Kapur, Devesh and Bhanu Pratap Mehta (eds.), 2003, Public Institutions in India: Performance and Design Oxford University Press, Delhi.

Mathur, Kuldeep, 2011, From Government to Governance: A Brief Survey of the Indian Experience, National Book Trust India, New Delhi.

Metha, Vinod (eds), Reforming Administration in India, India Council of Social Science Research and Har Anand Publication, New Delhi.

Ashok Chanda: Indian Administration

C. P. Bhambhri : Indian Administration (English & Hindi)

Maheshwari & Awasthi : Public Administration (English & Hindi)

Mohinder Singh & Hoshiar Singh: Indian Administration

S.R. Maheshwari : Indian Administration (English & Hindi)

Sadana and Sharma: Public Administration

Surendra Kataria : Bhartiya Lok Prashasan

Vishnu Das & Vishnu Bhagwan : Administrative Theory.

Yojana and Kurukshetra and Various Government of India Reports (English & Hindi) and Recommendation of Second Administration Reforms Commission, 2005. Relevant issues of Indian Journal of Public Administration (IIP A).

**B.A. PART-III
PAPER III
THEORY AND PRACTICE OF INTERNATIONAL
RELATIONS**

UNIT-I

The Study of International Relations: Meaning, Nature and Scope

Approaches to the Study of IR : Realist and Liberal
Role of State and Non-state actors

UNIT-II

Cold War and its impact on World Politics

Features of the present world order

Globalisation and its impact on the developing world
Problems of the third world security

UNIT-III

NAM : Origin, role and relevance

North-South Dialogue

Regional Organisations : ASEAN , SAARC

UNIT- IV

International Terrorism,

Nuclear Proliferation: Problem and Solution

Disarmament and Arms Control

Collective Security: Under the League and the United Nations

UNIT- V

India's foreign policy: Determinants and objectives

Key features of Indian foreign policy

India's relations with Pakistan

The Post-Cold War Indo-US relations

BOOKS RECOMMENDED:

- John Baylis, Steve Smith : *The Globalisation of*
(Eds.) *World Politics - An*
Introduction to International
Relations
- Joshua S Goldstein : *International Relations*
- K.K. Mishra, Subhash : *Anter Rashtriya Rajniti*
Shukla *ke Siddhant*
- Mahendra Kumar : *Theoretical Aspects of*
International Relations
- Pushpesh Pant : *Anterrashtriya Sambandh*
- Rajen Harshe, :
K.M. Seethi (Eds.) : *Engaging with the World:*
Critical Reflections on
India's Foreign Policy
- R.S. Yadav,
Suresh Dhanda : *India's Foreign Policy-*
Contemporary Trends
- Robert Jackson &
George Sorensen : *Introduction to Interna-*
tional Relations -
Theories and Approaches
- Scott Burchill (Ed.) : *Theories of International*
Relations
- Sumit Ganguly (Ed.) : *India's Foreign Policy-*
Perspective and Prospects
- Tapan Biswal (Ed.) : *International Relations*
(English & Hindi)
- Trevor, Taylor : *Theory of International*
Relations
- J.Bandopadhyaya : *The Making of India's*
Foreign Policy.
- U.R. Ghai : *International Relations*
(Hindi & English)

Faculty of Arts

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B.A. II

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B.A. PART- II

PAPER I

WESTERN POLITICAL PHILOSOPHY

UNIT- I

Meaning and Nature of Political Thought -
Characteristics of Ancient Greek Political Thought.

Plato: Justice, Communism, Education, Ideal State,
Sub- Ideal State.

Aristotle: Method, Origin, Nature and End of State,
Property and Slavery, Revolution, Law and Justice and
Citizenship.

UNIT-II

FEATURES OF MEDIEVAL POLITICAL THOUGHT

Aquinas: Scholasticism, State-Church Relationship, Law,
his importance.

Machiavelli: Life and Times, Views on Religion,
Morality, State, Diplomacy, his importance.

Bodin : Theory of State and Sovereignty, his importance.

UNIT -III

Hobbes, Locke, Rousseau: State of Nature, Social
Contract, Sovereignty, State, Rousseau's concept of
General Will.

UNIT- IV

Bentham: Utilitarianism, Idea of State, Law and
Punishment, his importance.

Mill: Revision of Utilitarianism, Liberty, Democracy, his
importance.

Green: Idealism, Individualism, State, Liberty, Rights,
General Will, War and Property.

UNIT- V

Hegel: Dialectics, State, his importance.

Marx: Dialectical Materialism, Economic Analysis of
History, Theory of class conflict , Revolution and
Communism, importance of Marx.

Lenin: State, Revolution, Party and Imperialism.

Mao : Peasantry, Revolution, Guerilla Warfare,
Importance of his Philosophy.

BOOKS RECOMMENDED:

- | | |
|------------------------|--|
| Brian R Nelson | : Western Political Thought
(Second Ed) |
| B.R. Purohit | : Rajnitik Chintan Ka Itihas |
| C.L. Wayper | : Political Theory |
| D.R. Bhandari | : A History of European
Political Thought |
| David Mc Lellan | : Political Thought of
Karl Marx. |
| Ernest Barker | : Plato and Aristotle |
| G H Sabine and Thorson | : History of Political Ideas |
| John Marrow | : History of Western Political
Thought - A Thematic
Introduction |

(3)

- J.P. Suda : Adhunik Rajnitik Vichar (4 volumes)
- K.L. Kamal : Pashchatya Rajnitik Chintan
- Murray Forsyth & Maurice : A Guide to the Political Classics Plato Keens Sopor to Rousseau
- Martin Cohen : Political Philosophy from Plato to Marx
- Mukherjee and Ramaswamy : A History of Political Thought (English & Hindi)
- Newton : Western Political Thought
- O.P. Gauba : Rajnitik Chintan ka Itihas
- R.S. Chaurasia : History of Western Political Thought
- Ram Chandra Sharma : Rajnitik Chintan, Vol. I & II
- Samuel Enoch Stumpf : Socrates to Sartre
- Sukhbir Singh : History of Political Thought
- William A Dunning : A History of Political Theories, Vol. I, II

B.A. PART- II

PAPER-II

COMPARATIVE GOVERNMENT AND POLITICS

UNIT- I

Approaches to the study of Comparative Government

- (i) Meaning of Comparative Government and Comparative Politics.
- (ii) Nature and Scope
- (iii) Traditional and Modern Approaches.

UNIT- II

Constitution and Constitutionalism

- (i) Constitution -Meaning and Making
- (ii) Amendments and Revision.
- (iii) Constitutionalism: Meaning, Nature, Kinds of Constitutionalism
- (iv) Rule of Law
- (v) Legislature
- (VI) Executive
- (VII) Judiciary.

UNIT- III

Organisation of Governments:

- (i) Unitary and Federal

- (ii) Parliamentary and Presidential
- (iii) United Front and Coalition Government.
- (iv) Democracy and Dictatorship.
- (v) Local Self Government.

UNIT-IV

I. Political Culture and Socialisation

II. Political Parties

Organisation and Functions of Political Parties.

Types of Party System: Liberal Democratic, models and Communist Model with special reference to China.

Role of Parties in Modern States.

- (III) Pressure Groups: Meaning, importance and kinds of Pressure Groups.

Role and Techniques of Pressure Groups in democracy.

UNIT- V

Electoral Process :

- (I) Electoral System and Voting Behaviour.
Direct democracy, Referendum, Initiative and Recall (with special reference to Switzerland)
Electoral Reforms

- (II) Public Opinion and Mass Media, Meaning, Nature. Role and importance.
- (III) Bureaucracy.

Judith Barand : Comparative Politics
 Mark Pennington
 J Blondel (1995) : Comparative Govern-
 ment
 Almond G.A. : Comparative Politics
 today. A World view 1996

BOOKS RECOMMENDED:

Almond and Powell : Comparative Politics A
 D e v e l o p m e n t a l
 Approach
 Alan R Ball : Modern Politics and
 Government
 C.B. Gena : Tulnatmak Rajniti Avam
 Sansthain
 Apter and Eikstein : Comparative Politics
 A Reader
 J.C. Johri : Comparative Politics
 (English & Hindi)
 O.P. Gauba : Tulnatmak Rajniti
 Parmatarna Sharan : Comparative Politics
 (English & Hindi) R.H.
 Chilcote Ronald : Theories of Comparative
 Politics
 S.P. Verma : Modern Political Theory
 Harihar Das : Comparative Govern-
 ment
 Vidya Bhushan : Comparative Politics

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B.A. I

2013-14

B.A. PART-I

PAPER I

POLITICAL THEORY

UNIT- I

DEFINITION : Nature and Scope of Political Science. Political Science as study of State and Government, as study of Power, as study of Political System.

NOMENCLATURE : Political Science, Politics, Political Theory, Political Philosophy, Comparative Politics.

POLITICAL SCIENCE - Its relations with other Social Sciences.

APPROACHES : Different Approaches to the study of Political Science, e.g. Historical, Philosophical, Behavioural and Post-Behavioural.

UNIT-II

STATE:

- i) Meaning and Elements, Dominant Perspectives
-Idealistic, Individualistic, Liberal, Social Welfare,

Contemporary Libertarian Concept, Gandhian concept and Marxian view of the State.

- ii) Origin of the State - different theories, e.g. Divine-origin, force, social contract , evolutionary.

UNIT -III

SOVEREIGNTY: Concept; Attributes, Different Theories : Monistic, Pluralistic and Philosophical. Nation and Nationalism, Challenges before the Nation-state, Globalisation, and Emergence of Civil Society.

UNIT-IV

CONCEPTS : Liberty, Equality, Rights, Law, Justice, Punishment and Citizenship

UNIT-V

Evolutionary Socialism, Marxism, Fascism Democracy and Communitarianism

BOOKS RECOMMENDED:

Andrew Heywood : Political Theory -An Introduction
C.E.M. Joad : Modern Political Theory
(English & Hindi)

Eddy Asirvatham and K. K. Misra : Political Theory (English & Hindi Versions)

G.C. Field : Political Theory

John Hoffman & Paul Graham : Introduction to Political Theory

M.P. Jain : Marxism and Liberalism (English & Hindi)

Catriona Mckinnon : Issues in Political Theory

O.P. Gauba : An Introduction to Political Theory (English & Hindi Version)

Pant, Gupta, Jain : Rajniti Shastra ke Adhar (Hindi)

Rajeev Bhargava and Ashok Acharya : Political Theory - An Introduction

Robert Dahl : Modern Political Analysis

M.J. Vinod & Deshpande : Political Theory

Sushila Ramaswamy : Political Theory Idea & Concept.

B.A. PART I

Paper II

Theory and Practice of Modern Governments (with special reference to U.K., U.S.A., China and India)

UNIT-I

Constitution of U.K.: Salient features, Conventions, Monarchy, Cabinet, Prime Minister, Parliament- organization, powers and functions, Reform of the House of the Lords, Organs of the higher judiciary- powers and functions, Party System.

UNIT- II

Constitution of U.S.A.: Salient features, Federalism, Constitutional Amendments, President, Vice President, Cabinet, Congress- organization, powers and functions, Supreme Court- organization, powers and functions, Judicial Review, Party System.

UNIT- III

Constitution of People's Republic of China: Main features, Communist Party of China, President, Premier, State Council, National People's Congress, Central Military Commission, Supreme People's Court-

organization, powers and functions.

UNIT-IV

Constitution of India (A): - The Constituent Assembly - organization, powers and functions, Objectives and Philosophy of the Indian Constitution- Preamble, Main Features, Procedure of Amendment, Federalism, Fundamental Rights, Directive Principles of State Policy and Fundamental Duties.

UNIT- V

Constitution of India (B): President, Emergency Provisions, Prime Minister and Council of Ministers, Parliament- organization, powers and functions, Judiciary- Supreme Court and High Court- organization, powers and functions, Judicial Review and Judicial Activism, Governor, Chief minister and Council of Ministers, State Legislature- organization, powers and functions, Panchayati Raj and Urban Local Bodies, Party System in India - basic features.

BOOKS RECOMMENDED:

A.C. Kapur : Select Constitutions
C. F. Strong : Constitution and Constitutionalism

C. F. Strong : Major Contemporary Political Systems

Colin Padfield : British Constitution Made Easy

D.D. Basu : An Introduction to the Constitution of India (English & Hindi)

H.M. Jain : Panch Samvidhan

Harvey & Bather : British Constitution

K.R. Bombwall : Modern Constitutions

Ogg. Ray and Young : Essentials of American Government

R.M. Punnet : British Constitution

Rupa Manglani : Bhartiya Shasan aur Rajniti

M.V. Pylee : Indian Constitution

Qianfan Zhang : The constitution of China : A Contextual Analysis Constitutional systems of the world)

M. A.
POLITICAL SCIENCE
Semester System
COURSE SCHEME

1st SEMESTER (AUTUMN)

4 CORE COURSES

<i>Course No.</i>	<i>Course Title</i>
POL 501	Western Political Thought- I (From Plato to Hegel)
POL 502	Comparative Politics
POL 503	Modern Indian Political Thinkers
POL 504	Indian Administration

Course Code : POL 501

Course Title : Western political thought – I (From Plato to Hegel)

THE GREEKS : (1) PLATO (2) ARISTOTLE

THE MEDIEVALISTS : (1) AUGUSTINE (2) AQUINAS

THE MODERNS : (1) MACHIAVELLI (2) HOBBS (3) LOCKE (4) ROUSSEAU (5) BENTHAM (6) MILL (7) GREEN and (8) HEGEL

Recommended Readings :

1. F.W. Coker, *Recent Political Thought*, The World Press Private Ltd., Calcutta, 1966
2. Roberts Peri & Peter Suich, *An Introduction to Political Thought*, Atlantic Publishers, New Delhi, 2005.
3. L. Colletti, *From Rousseau to Lenin*, Oxford University Press, New Delhi, 1969.
4. J. S. McClelland: *A History of Western Political Thought*
5. Brain Nelson : *Western Political Thought from Socrates to the age of Ideology*
6. Judith Best : *The Mainstream of Western Political Thought*
7. R.G. Mulgan : *Aristotles' Political Theory*
8. John Bowle : *Western Political Thought : From the Origins to Rousseau*
9. Shefali Jha : *Western Political Thought - From Plato to Marx*
10. Dante Germino : *Machiavelli to Marx – Modern Western Political Thought*
11. Bruce Haddoc : *A History of Political Thought : From Antiquity to the Present*
12. W.K.C. Gutheri : *The Greek Philosophers from Thales to Aristotle*
13. Ernest Barker : *Greek Political theory : Plato and His Predecessors*
14. G.H. Sabine : *A history of Political Thought*
15. Q. Skinner *Foundations of Modern Political Thought*
16. C. B. Macpherson : *The Political Theory of Possessive Individualism*
17. S. Avineri : *Hegel's Theory of the Modern State*

M.A.: POLITICAL SCIENCE
Course Code : POL 502
Course Title: COMPARATIVE POLITICS
(Core Course)

- (I)
 - (i) Comparative Politics – A historical overview
 - (ii) Meaning, Nature and Scope, Present & Future trends
- (II) Approaches to the study of Comparative Politics –
Traditional & Modern
Behaviour, Post Behaviour approaches
Political Systems Approach – David Easton's model
Structural Functionalism – Almond's model
Karl Deutsch's Communication model
Political Economy approach
Culture Centric Approach
- (III) Constitutionalism and Democratic Theory, Liberal, Classical and Contemporary,
David Held's Concept of Cosmopolitan Democracy, Authoritarian, Military &
Totalitarian Dictatorships.
- (IV) Theories of Party systems, classification & rôle in Modern Societies.
Pressure Groups
Civil Society and the State
Theories of Ruling Elites & Political Leadership
- (V) Comparative Development Experience
Theories of Development
Political Development & Modernization
Development and Under development and Dependency
Problems confronting developing countries
Search for alternative model of development
Impact of Liberalisation and globalization on developing political systems.

M..A.: POLITICAL SCIENCE
Course Code POL 503
Course Title: MODERN INDIAN POLITICAL THINKERS
(Core Course) ✓

SECTION I

- a. Sources of Modern Indian Political Thought
- b. Influences: Growth of Different Ideologies
- c. Context of Modern Political Thought

SECTION II

- RAJA RAM MOHAN ROY
 - a. Rationalist Foundation of Liberalism, Rationalism and Universalism
 - b. Constitutionalism: Law and Judicial System
- TILAK
 - a. Idea of Swaraja
 - b. Doctrine of Passive Resistance
- V.D. SAVARKAR
 - a. On Indian Identity
 - b. Concept of Hindutva
- RABRINDRANATH TAGORE
 - a. Idea of Freedom (Mukti)
 - b. Critique Nationalism
- M.A. JINNAH
 - a. Liberalism and Secularism
 - b. Nationalism and Islam
- M.N. ROY
 - a. Critique of and Contribution to Communism
 - b. Radical Humanism
- M.K. GANDHI
 - a. Non- Violence
 - b. Satyagraha and Swaraja
 - c. Gramrajya
- JAWAHARLAL NEHRU
 - a. Democratic Socialism
 - b. Humanism and Democracy
- B.R. AMBEDKAR
 - a. Critique of Brahmanical Hinduism
 - b. Liberty, Equality, Fraternity, Social Justice

- c. Role in Constitution Making
- R.M. LOHIA
 - a. Idea of State
 - b. Idea of Democracy

READING LIST

- A. Appadorai : Indian Political thinking Through the Ages
- Karunakaran K.P. : Indian Politics from Naoroji to Gandhi
- Mehta V. R. : Foundations of Indian Political Thought
- ✓Verma V.P. : Modern Indian Political thought (Hindi Too)
- Naraane, V.M. : Modern Indian thought
- ✓Chakravarty B and Pandey, R : Modern Indian Thought : Text and Context Also (In Hindi too)
- Sinari, R.A. : Modern Indian Political Thought
- ✓Suda, J.P. : Main Currents of Social and Political Thought in Modern India – III Vol(also in Hindi)
- Singh and Roy : Indian Political Thought

M.A.: POLITICAL SCIENCE
Course Code POL 504
Course Title: INDIAN ADMINISTRATION
(Core Course)

Course Rationale:

The paper examines the evolution, history, growth and structure of Indian Administration. It also explores the financial and structural mix between the institutional evolution and the dynamics of developmental concerns. It attempts to examine the impact of globalisation, liberalization and privatization on economic administration of India and also the remedial measures attached to it.

1. EVOLUTION OF INDIAN ADMINISTRATION:-
 - a. Mauryan
 - b. Mughal
 - c. British Administration
2. POST-INDEPENDENCE INDIAN ADMINISTRATION:-
 - a. Constitutional Setting
 - b. Parliamentary Democracy
 - c. Federalism
 - d. Socialism
 - e. Globalisation & its Impact
3. FEDERAL ARRANGEMENT
 - a. Centre- State Relationship
 - b. Recent Developments
4. STRUCTURE OF ADMINISTRATION
 - a. Central Secretariat
 - b. Cabinet Secretariat
 - c. P.M.O
 - d. Cabinet Committees
5. STATE ADMINISTRATION
 - a. Role of Governor
6. Financial Administration
 - a. Budget- Formation, Approval and Execution
 - b. Parliamentary Control over Finance
 - c. Parliamentary Committees
 - d. CAG

- e. Lokpal, Social Audit
- 7. Planning and Development
 - a. Planning- History and Growth in India
 - b. Planning Process in India
 - c. NITI AAYOG its organization, structure and functions
 - d. Economic Liberalization and Recent Initiatives
- 8. Public Sector Units
 - a. History and Classification
 - b. Achievements and Limitations
 - c. Recent Developments in Public Enterprises- Privatization and Disinvestment

SUGGESTED READINGS

- Austin, Grainville, 2003, Working of Democratic Constitution : A History of Indian Experience, Oxford University Press, New Delhi
- Bandopadhyay, D, 2003, 12th Finance Commission and Panchayat Finance, Economic and Political Weekly, xxxviii, 23, June 7, 2242-43.
- Bhattacharya, Mohit: New Horizons of Public Administration, Jawahar Publishers and Distributions, New Delhi.
- Bhagwati, Jagdish, 1995, India in Transition, Claredon Press, Oxford.
- Banik Dan, 2001, The Transfer Raj : Indian Civil Servants on the Move, *The European Journal of Development Research*, 13, 1, June 2001, 106-134
- Das S.K., 1998, *Civil Service Reform and Structural Adjustment*, Oxford University Press, New Delhi
- Government of India, 1997, *Report of the Working Group on Right to Information and Promotion of Open And Transparent Government*, New Delhi
- Government of India, 2006, *The State of the Panchayats : A Mid Term Review and Appraisal*, 22 November, 2006, Ministry of Panchayati Raj, New delhi, vol. iii
- Guha Roy, Jaytilak, 2006, Right to Information Initiatives and Impact, Indian Institute of Public Administration, New Delhi.
- Niraja and Sudha Pai, eds., *Democratic Governance in India: Challenges of Poverty, Development and Identity*, Sage, New Delhi, 2001.

SEMESTER II (SPRING SEMESTER)

4 CORE COURSES

<i>Course No.</i>	<i>Course Title</i>
POL 511	Western Political Thought- II
POL 512	Indian Political System
POL 513	Principles of Public Administration
POL 514	Concepts & Contemporary Issues in International Relations

Course CODE : POL 511

Course Title: WESTERN POLITICAL THOUGHT II
(Core Course)

THE FOUNDERS

MARX AND ENGELS

THE SECOND GENERATION

KAUTSKY
BERNSTEIN

THE THIRD GENERATION

LENIN
TROTSKY
ROSA LUXEMBERG

THE FOURTH GENERATION

GRAMSCI
FRANKFURT SCHOOL
ALTHUSSER
MAO

A CASE STUDY OF FASCISM

HITLER

Course CODE POL 512
Course Title: Indian Political System
(Core Course)

1. Nature of the Indian political system.
Languages of Indian politics – Sainly, Traditional, Modern.
Civilizational Ethos – Unity in Diversity.
Political Culture in India.
2. Caste and Politics in India – Mandalization and Dalit Politics.
3. Religion and Politics in India – Problems of Communalism, Secularism and Fundamentalism.
4. Region and Language in Indian Politics – Insurgency, Secessionism and Terrorism.
5. Working of Indian Democracy, its Strengths and Weaknesses and the Main Challenges before it.
6. Emerging Trends in Indian Politics – a) Corruption and Politics in India b) Women and Politics in India c) Environment and Politics in India

Suggested Reading:

- Adeney, Katherine and Saez, Lawrence, eds., *Coalition Politics and Hindu Nationalism*, Routledge, London, 2005.
- Arora, Balveer and Douglas, Verney, eds., *Multiple Identities in a Single State: Indian*
- Austin, Granville, *Working a Democratic Constitution: A History of the Indian Experience*, Oxford University Press, Delhi, 1999.
- Bhargava, Rajeev, ed., *Politics and Ethics of the Indian Constitution*, Oxford University Press, New Delhi, 2008.
- Bhargava, Rajeev, ed., *Secularism and its Critics*, Nationality Press, New Delhi, 1998.
- Brass, Paul R. and Marcus, F. Franda, eds, *Radical Politics in South Asia*, MIT Press, Cambridge, 1973.
- Brass, Paul, *Language, Religion and Politics in North India*, Cambridge University Press, London, 1974.
- Dreze, Jean and Amartya Sen, *India: Development and Participation*, Oxford University Press New Delhi, 2002.

Course Code : POL 513

Course Title: Principles of Public Administration

(Core Course)

1. Basic Premises: Meaning, Scope and Significance
2. Evolution of the Discipline and its Present Status
3. Organisation: Meaning, Principle and Structure.
4. Personnel Administration and Financial Administration.
5. Accountability and Control.
6. Major Theories and Approaches to the Study of P. A.:
Classical and neo-classical schools:
 - a) The Scientific Management Theory: Taylor & Others
 - b) The Classical Theory of Management.
 - c) The Bureaucratic Theory: Max Weber, its critique and post-Weberian development
 - d) Human Relations: Elton Mary.
 - e) Behavioural and Systems Approaches: Maslow, Angstyns and Mcgsegor.
 - f) Ecological Approach: F. Riggs

 - g) Rational Decision – Making: Hebert Simon
 - h) Public Choice approach and Participatory Management
 - i) Marxist Approach: Political Economy Approach.
7. Contemporary Developments
 - a) New Public Administration
 - b) New Public Management: Good Governance & Development-
Civil Society, Citizens' Charter, Right to Information, Social Audit
8. Role of State & Role of Public Administration in post-globalisation era: Debate and Alternative Perspectives
9. Challenges of Liberalisation, Privatisation & Globalisation

M.A.: POLITICAL SCIENCE

Course Code POL 514

Course Title: Concepts and Contemporary Issues in International Relations

(Core Course)

KEY CONCEPTS

- National Interest
- National Power
- Balance of Power
- Diplomacy
- Nuclear Deterrence
- National Security
- Human Security
- Collective Security
- Arms Control and Disarmament

CONTEMPORARY ISSUES

- International Political Economy
- North-South problems
- WTO and issues between the developed and the developing countries
- Nuclear Proliferation
- Non-proliferation initiatives
- International terrorism
- Humanitarian Intervention

COURSE CODE POL 601
COURSE TITLE: THEORY OF INTERNATIONAL RELATIONS
(CORE COURSE)

- Development of International Relations Theory
- State, State System and International Relations
- International System and International Relations
- Pluralism in contemporary foreign policy-making
- Advanced traditional and contemporary theories:
 - Realism
 - Structural Realism
 - Liberalism
 - Neo-Liberalism
 - Marxism
 - Critical Theory
 - Constructivism
 - Environmentalism in IR theory
 - Functionalism and Regionalism in IR theory
 - Culture and Religion in International Relations
 - Democratic Peace
 - Globalization dynamics and International Relations Theory

Suggested Reading

- Alexander Wendt, *Social Theory of International Politics*, Cambridge University Press.
- Barry Buzan, *People, States and Fear: An Agenda for International Security Studies in the post-Cold War Period*, Wheatsheaf Books
- Chris Brown and Kirsten Ainley, *Understanding International Relations*, Palgrave.
- Colin Wight, *Agents, Structures and International Relations: Politics as Ontology*, Cambridge University Press.
- David Held, *Globalisation Theory: Approaches and Controversies*, Polity.
- Emanuel Adler and Michael Barnett (Eds.), *Security Communities*, Cambridge University Press.
- Francis Fukuyama, *The End of History and the Last Man*, Avon.

COURSE CODE POL 602
COURSE TITLE : HUMAN RIGHTS
(CORE COURSE)

- (I) Meaning, Nature & Evolution of Human Rights Theories of Human Rights
Human Rights discourse – universal or culture specific individual or community related
- (II) Changing Dimensions of Human Rights
 - (i) End of cold war and ideological confrontation
 - (ii) Widening democratization in the World-Development , Democracy & Social Justice
 - (iii) Vienna Conference 1993 unfolding of the New Dimensions.
- (III) Emerging Dimensions of Human Rights – Interface between Human Rights, Development, Environment & Peace.
 - (i) Right to Development
 - (ii) Right to Environment
 - (iii) Right to Peace
- (IV) Human Rights and International order
 - (i) Human Rights and International Order
 - (ii) Human Rights and United Nations-Human Rights and Various Conventions
 - (iii) International Protection of Human Rights
- (V) Past and Present Challenges to the promotion of Human Rights
Poverty, Discrimination & intolerance, Racism, Inequality, Social Exclusion, Violence and exploitation, Global warming.
Terrorism and Organised Crime and Human Rights
- (VI) Globalization and its impact on Human Rights
Defining Rights in the era of globalization
Impact of globalization on the vulnerable sections – like women, children, minorities, indigenous people, migrant workers etc.
- (VII) Agenda for the New millennium – Protection of Human Rights and the role of Human Rights education.

POL 654 : GOVERNMENT AND POLITICS IN INDIA

(ELECTIVE)

1. Nature of Indian Federalism – Main Areas of Tension between the Centre and the States – Commissions on Centre State Relations – Rajmanar and Sarkaria - Changing Nature of Federalism Under Coalition Politics.
2. Nature of Fundamental Rights and Directive Principles of State Policy - Their Changing Relationship in the light of Judicial Decisions – Golaknath and Keshavnand Bharti Case.
3. a) Changing Role of the President and Prime Minister in the Era of Coalition Politics.
b) Decline of Legislature vis- a- vis the Executive.
c) Judicial Independence – Judicial Review – Judicial Activism and Public Interest Litigation.
4. Decentralization and Participatory Democracy – Changing Nature of Panchayati Raj in India – Significance of the 73rd and 74th Amendments.
5. The Party System in India – Recent Trends – Role of Regional Parties – Elections and Voting Behaviour – Electoral reforms.
6. Pressure Groups in Indian Politics:
 - a) Business groups
 - b) Agrarian Groups
 - c) Trade Unions.

ELECTIVE COURSES

GROUP 'B' – Political Philosophy and Public Policy

POL 661 : Political Sociology (ELECTIVE)

1. Political Sociology : Meaning, Nature and scope. Different approaches to political Sociology- Systems, Structural Functional and Marxist.
2. Theories of Political Sociology : Durkheim , Max Weber and Elite Theorists, Pareto, Mosca, Michels and Mills.
3. Theories of Social Change, Social Movements and Revolutions..
4. Power , Authority and Legitimacy.
5. Political Culture and Political Socialization.
6. Political Participation
- 7 Political Development and Modernization.
8. State Civil Society and Governance.

BOOKS RECOMMENDED

1. Alsesandro Pizzorno : Political Sociology, Penguin Harmondsworth 1971.
2. M. Janowitz : Political Sociology in Encylopaedia of Social Sciences, Free Press, Macmillan, 1901.
3. S.M. Lipest : Political Man, Double Day, 1900.
4. W.G. Rundiman : Social Science and Political Theory, Cambridge University Press, Cambridge, 1909.
5. R. Bendix and S.M. Lipest (eds) :Class, Status and Power, Routledge and Kegan paul, London, 1974.
6. H.H. Gerth and C. Wright Mills (eds): From Max Weber: Essay in Sociology. Kegan Paul, London, 1974.
7. R.R. Dahl : Modern Political Analysis, Prentice Hall, 1965.
8. Almond and Coleman: Politics of Developing Areas. Princeton University Press, 1960.
- 9 A.R. Desai : Essays on Modernisation of Under Developed Societies. Thacker and Developed Societies, Tracker and Co., Bombay 1979.
10. L.I. Rudolph and S.H. Rudholph : Modernity of Tradition, University of Chicago Press, 1967.
11. Ramond Aron : Main Currents of Sociological Theagnt, Vol. 1 and 2, Penguin Books. 1968.
12. T.B. Bottomore : Elites and Society, Pengain Books, 1971.
13. T.B Bottomore : Sociology, Unwin University Books, 1972.

Course Title: CONTEMPORARY POLITICAL THEORY

COURSE CODE : POL 611

(Core Course)

1. Status of Political Theory-Divine or Resurgence.
2. State in Political Theory – Liberal, Neo – Liberal, Marxist and Neo – Marxist Theories.
3. Democratic Theory.
4. Feminism – Liberal, Radical, Socialist, Cultural, Eco, Post – Modernist.
5. New Social Movements and Civil Society.
6. Social Justice and Theory of Rights : Nozick, Rawls, Hayek, Walzer, Martha Nussbaum
7. Post-Modernism and Amartya Sen, Critical Response to Post – Modernity & Post – Modernism: Ernest Gellner, Habermas, Ulrich Beck, Giddens.
8. Citizenship Theory - Communitarianism: Michael Sandel, Michael Walzer, Macintyre, Taylor
9. Nationalism and Multiculturalism.
10. Globalization and Environmentalism

COURSE CODE : POL 612
Course Title: India in World Affairs
(Core Course)

The Making of India's Foreign Policy

- . What is foreign policy?
- . Non-Alignment: Conceptual Implications
- . Development of Foreign Policy: 1920-1947
- . Determinants and Objectives of Foreign Policy

India and its Neighbours

- . Indo-Pakistan Relations
- . Indo-Nepal Relations
- . Indo-Bangladesh Relations
- . Indo-Sri Lanka Relations
- . Is India behaving like a superpower in South Asia?

India and major Powers

- . India-China Relations
- . India-Russia Relations
- . India-USA Relations
- . Foreign policies of major powers and latest happenings

India's role in the world organizations

- . India's role in The United Nations
- . India's role in NAM
- . India, ASEAN and European Union
- . India and SAARC
- . Main features of SAARC, drawbacks and limitations

Contemporary challenges before Indian Foreign Policy

- . India's policy in Post-Cold War era
- . India overcoming terrorism

COURSE TITLE: POLITICAL PARTIES AND PARTY SYSTEMS
CORSE CODE : POL 676
(ELECTIVE)

Political Parties and party systems are the key structures of all the modern Political Systems. Originating as an Extra-Constitutional Structure it consolidated itself in the process of democratization in the eighteenth and nineteenth centuries. It is intrinsically lined with the working of representative democracies of today. However, in non-democratic one party states party plays an important role as an independent variable. It acts as an instrument of modernization in the developing countries. This course deals with the crucial role of political parties as an important institution in the entire political system.

COURSE CONTENT

- 1, Meaning, Nature and Evolution of Political Parties.
1. Theories of Party Systems.
2. Classification of Party Systems.
3. Role of Political Parties in Modern Political Systems.
4. Party Structure.
5. Electoral System and Political Parties – Need for Reforms.
6. Party system in India.
7. Party System & Pressure Politics in USA.
8. Communist Party of China.
9. Recent Trends.

SUGGESTED READINGS

- Duverger, M, Political Parties, London : Wiley, 1954.
- Eldersveld, Samuel J., Political Parties : A Behavioural Analysis, Chicago , 1964.
- Kohli, A.(ed.) India's Democracy AN Analysis of Changing State-Society Relations, Hyderabad, Orient Longman, 1988.
- Lawson, K. (ed.) Political Parties and Linkage, New Haven, Yale University Press, 1980.
- La Palambora, J and M Weiner (eds.) Political Parties and Political Development, Princeton, Princeton University Press, 1996.
- Neumann S. (ed.) Modern Political Parties, Chicago, University of Chicago Press, 1966.
- Parkin, S., Green Parties, London : Heretic Books, 1989.
- Randall, V. (ed.) Political Parties in the Third World, New Delhi : Sage, 1988.
- Sartori, G., Parties and Party System, London, Cambridge University Press, 1976.
- Thum G.W. and E.G. Janosik, Parties and the Governmental Systems, NJ, Prentice Hall, 1967.

ELECTIVE 'D' GROUP

ANY ONE COURSE FROM THIS GROUP.

COURSE CODE : POL 681

(ELECTIVE)

Course Title: International Relations after Second World War

- Cold War: Origin, development and impact
- Deterrence, arms race and power politics during Cold War
- Disintegration of Soviet Union: Implications for world politics and security
- Post-Cold War international system
- Impact of 9/11 on world politics
- United Nations: Structure, functions and role
- Issues of Human Rights and International Law
- NAM: Origin, role and relevance
- Regional Organisations: SAARC and European Union
- Third World political problems in the post-Cold War period (specially the conflict in the Middle East and Afghanistan)
- The problem of nuclear proliferation in Asia
- Indian foreign policy: Determinants, objectives and decision-making process
- India's neighbourhood
- Indian economic diplomacy
- India's politico-strategic engagement with the major powers in the post-Cold War period
- A case for reshaping of India's foreign policy in the contemporary world

**DEPARTMENT OF POLITICAL SCIENCE
UNIVERSITY OF ALLAHABAD,
PRE-D.PHIL COURSE**

(Course Approved by the Faculty Board on 03-04-2017 wide letter No. DFA/103/17 dated July 6, 2017)

POL-801 : RESEARCH METHODOLOGY (CREDIT 4)

- Introduction to Social Science Research
- Research Problem
- Research Hypotheses
- Research Design
- Research Methods : Quantitative
- Research Methods : Qualitative
- Statistical Concepts and Presentations : Tables, Charts, Graphs
- Report Writing, Standard Citation Styles, Bibliography
- Basic Computer Application for Research
- Research Ethics

POL-802 : RESEARCH APPROACHES AND TRENDS IN POLITICAL SCIENCE APPROACHES (CREDIT4)

Positivism

Post-Positivist Approaches:

- Critical Theory
- Post Modernism
- Constructivism
- Feminism
- Normative Theory

Research Trends in Subfields:

- Political Philosophy
- Comparative Politics
- Political Institutions
- International Relations
- Government and Politics in India
- Public Policy

Review of Published Research in the Field.

Note : Maximum Marks for each paper shall be 100. End Semester Exam shall be of 60 Marks. The remaining evaluation of 40 Marks will be done on the basis of assignment/group discussion/Seminar Presentation (MM 20), and review of published research in relevant field (MM 20) practical work (MM 20) related to computer application. Grading will be done as per UGC Regulation 2016.

Head, Department of Political Science.

FACULTY OF ARTS
PSYCHOLOGY DEPARTMENT

UNIVERSITY OF ALLAHABAD
ALLAHABAD

LECTURE LIST
2015 - 16



B.A./B.Sc. Part I
THREE YEAR DEGREE COURSE

B.A. / B.Sc. Part I
Paper I - Basic Psychological
Processes and Behavior

1. Introduction

The science of Psychology, methods of Psychology, a brief history of Psychology, Psychology in India, Approaches to Psychology behavioristic, psychodynamic, cognitive and humanistic, **Ethical issues in psychology.**

2. Biological Bases of Behavior

Structure of a neuron, synaptic transmission, the nervous system; central and peripheral - cortical areas and their functions - the endocrine system.

3. Sensation and Perception

Sensory processes - stimulus detection - the absolute and difference threshold. Gestalt principles of perceptual organization. Depth perception; perceptual constanceis and illusion, perceptual defense; Illustrative experiments on characteristics of perceiver and perception.

4. Learning

Features of classical and operant conditioning. Cognitions in Learning - latent learning and acquisition of cognitive maps Observational Learning. Principles of Behavior Modification.

5. Memory

The memory process - encoding, storage and retrieval.

Memory as information processing - Atkinson's stage model, Levels of processing approach to memory. Types of Long term memory - Episodic, semantic and

procedural memory.

Forgetting - Ebbinghaus's forgetting curve, explanations of forgetting; decay, interference and retrieval related forgetting.

Memory as a constructive process - memory distortions and schema.

6. Thinking

Concepts and propositions, inductive and deductive reasoning. Steps in problem solving. Decision making - heuristics and biases.

7. Intelligence

Nature of intelligence, Intelligence as general and specific mental ability; Crystallized and Fluid intelligence, Emotional intelligence. A brief idea about measurement of intelligence.

8. Motivation

Concept and characteristics of motivated behavior. Perspectives on motivation - instincts and drives. Maslow's need hierarchy. Biogenic motive - hunger. Sociogenic motive - achievement.

9. Emotion

Nature of emotions; the eliciting stimuli, appraisals, physiological response and expressions in emotion.

Overview of theories of emotion. Classical and Contemporary theories; James Lange, Cannon Bard, Schachter and Singer, Lazarus and Facial Feedback hypothesis.

Books -

1. Passer, Michael W & Smith, Ronald E. (2013) Psychology : The Science of Mind and Behavior.

- McGraw hill Education (Indian Edition).
2. Baron Robert A & Misra G. (2014) psychology : Indian subcontinent edition, Pearson. Delhi.
 3. Ciccarelli S.K & Meyer G.E. (2008) psychology : South Asian Edition Pearson, Delhi.
 4. Singh A.K. (2003) आधुनिक सामान्य मनोविज्ञान/Motilal Banarasidas, Delhi.

B.A. / B.Sc. Part 1
Paper II - Psychological Statistics

I. An Introduction to Statistics

Basic concepts, use of statistics in psychology, variables-continuous and categorical.

Scales of measurement-nominal, ordinal, interval and ratio.

Descriptive and inferential statistics, data-organising and processing of data.

II. Descriptive statistics

Organising data in frequency distribution.

Calculation of mean, median and mode from raw and grouped data.

Concept of variability-calculation of semi interquartile range, standard deviation by raw score, deviation score formula and grouped data, variance.

Centiles and percentile rank (PR).

III. Graphic representation

Graphic representation of data-frequency polygon, histogram, bar diagram, ogive and line graph.

Direct determination of statistics from graph-centiles and PR.

IV. Correlation

Measurement of association between variables, nature of relationship, Pearson's coefficient of correlation (r) - Computation of r by raw score method and deviation method, factors influencing the correlation coefficient, interpretation of r .

Other methods of correlation-Spearman's rank order co-efficient of correlation.

V. Normal Distribution

Concept of probability.

Nature and characteristics of normal probability curve (NPC), Standard score (z score), applications of NPC.

Curves other than NPC, concept and calculation of skewness and kurtosis.

VI. Inferential Statistics

Purpose of statistical inference, population and samples, sample representativeness.

Sampling distribution of means, standard error of mean.

VII. Hypothesis testing I-t test

Testing hypothesis about single mean, null and alternate hypothesis, region of rejection, confidence limits, One tailed and two tailed test.

Testing hypothesis about differences between sample means - Nature and assumptions of t test, degrees of freedom, levels of significance, computation and interpretation of t values, t test for independent and dependent samples, Type I and type II errors.

VIII. Hypothesis testing II-Analysis of Variance

Analysis of variance - computation of one-way Analysis of Variance, interpretation of results.

IX. Non parametric statistical tests - X^2 test

Differentiation between parametric and Non-parametric tests : concept of distribution free tests.

Chi Square (X^2) test-computation for one and two

variable (contingency) X^2 tests, Interpretation of X^2 value.

Books .

1. ✓ Minium and Clarke (1978) Elements of Statistical Reasoning. Wiley Publication.
2. मिश्रा बबन एवं त्रिपाठी लाल बचन (1994) मनोवैज्ञानिक सांख्यिकी।
आगरा : हर प्रसाद भार्गव।
3. Ferguson (1982). Statistical Analysis in Psychology and Education. McGraw Hill Publication.

B.A. I Paper III-Practical

Max. Marks - 50

Part I : Designing of Experiments

1. Nature of Scientific Method

(a) Definition of Science, Methods and goals of science, rules of science.

II. Experimental Approach in Psychology

A. Scientific explanation in psychology, principles of making causal inferences.

✓ B. Experiments in laboratory setting, experiments in natural setting, ex.post-facto studies.

III. Basic of Experimentation

A. Formulation of research problem.

B. Derivation of hypothesis.

C. Identifying Variables : Independent, dependent and extraneous. Operationalization of variables.

D. Techniques of controlling extraneous variable Exercises in the above topics.

IV. Experimental Design

- ✓ A. Pre-post single group design, matched group design advantages and limitations.
- ✓ B. Design involving more than one levels of independent variables.

V. Exercise the above topics

- A. Analysis of data, interpreting results and report writing
- B. Tabulation of raw-data, analysis and report writing
- C. Exercises in the above topics.

VI. Exercises in Designing Experiments

Part II. Conducting experiments in laboratory.

VII. The students are required to conduct at least one experiment from each of the areas listed below :

- A. Attention Perception
- B. Memory/Forgetting
- C. Learning
- D. Thinking/Problem Solving
- E. Motivation/Emotion.

Students are required to complete six experiments. All experiments must be conducted under the guidance of the instructor without which a student will not be permitted to appear in the examination.

Faculty of Arts

PSYCHOLOGY DEPARTMENT

**UNIVERSITY OF ALLAHABAD
ALLAHABAD**

Lecture List

2015-16

**B.A. / B.Sc. PART II
THREE-YEAR DEGREE COURSE**

B.A./ B.Sc. Part II

Paper I- Psychopathology

Max. Marks -50

I. Meaning and Criteria of Abnormality:

-Statistical, Social Conformity & Personal Adjustment.

II. Historical perspective of abnormal behavior.

III. An overview of the development and classification system of DSM IV.

IV. Theoretical Perspectives:

-Freud's Psychoanalytic theory

-Adler's Individual Psychology

-Jung's Analytical theory

V. Human Adjustment and Coping:

-Type of Stressors: Conflict, Pressures & Frustration

-Factors influencing stress tolerance

-Coping with stress: Ego defense mechanisms & task oriented reactions .

VI. Causal factors in Abnormal Behavior:

-Biological, Psychosocial, Socio-cultural

VII. Disorders as per DSM IV: Clinical picture types & brief idea of etiology of each disorder given below.

- Anxiety Disorders: Generalized Anxiety Disorder (GAD),

Obsessive- Compulsive Disorder (OCD)

Post Traumatic Stress Disorder (PTSD).

- Somatoform Disorders: Conversion,

Hypochondriasis & Pain disorders

- Schizophrenia: Paranoid type, Disorganized type, Catatonic type, Undifferentiated type, Residual type.
- Delusional disorder: Paranoia.
- Dissociative Disorders: Amnesia, Fugue, Depersonalization
- Mood Disorders: Depressive, Bi-polar.

VIII. Brief idea of theoretical approaches to Psychotherapies:

- Skinner's Operant Conditioning theory
- Bandura's Social Learning theory
- Maslow's Humanistic theory
- Carl Roger's Client-Centered theory
- Beck & Ellis: Cognitive Perspective

IX. Psychotherapies:

- Freud's Psychoanalysis, Behavior Modification, Client Centered therapy.

References:

1. Carson, R. C., Butcher, J. N., & Mineka (2005). Abnormal psychology and modern life. New Delhi: Education (Singapore) Pvt. Ltd.
2. Sarason, I. G. & Sarason, B. R. (2002). Abnormal psychology: The problem of maladaptive behavior (Eastern Economy Edition, 11th) New Delhi: Prentice Hall of India.

(5)

3. Coleman, C. (1982). Abnormal Psychology and Modern life. D. B. Tarapore Walla (Indian Reprint).
4. Schultz, D. (1976). Theories of Personality. New York : Woodsworth Publishing Co.
5. Comar, J. R. (1998). Abnormal Psychology. New York : Freeman.
6. सिंह अरूण कुमार (2004) आधुनिक असमान्य मनोविज्ञान, दिल्ली : मोती लाल बनारसीदास

(6)

B.A. / B.SC. II

Paper II - Psychology and Social processes

Max Marks : 50

No of Lectures

I. Introduction to Social Psychology

- (a) Definition and Scope of social psychology. [2]
- (b) A brief history of Social psychology, Social psychology in India. [2]
- (c) **Doing research in social psychology** - experimental, correlational and survey. [1]

II. Social cognition and person perception

- (a) Person perception and impression formation - **Asch** - central trait, primacy and recency effects; Anderson - cognitive algebra. [2]
- (b) **Social cognition and information processing**: schema, Stereotypes, heuristics and biases in person perception. [2]
- (c) Attribution: Inferring the traits and motives of others; Theories of attribution - Jones - Theory of correspondent inference; Kelly - Causal attribution theory & Weiner - attribution of success and failure; biases in attribution process. [4]

III. Social Attitudes

- (a) Nature of attitudes - definition & characteristics of attitudes [2]
- (b) Theories of attitude formation -
 - (i) Learning theories and (ii) Cognitive theories [2]

(c) Measurements of attitudes :

(i) Direct Measures - Attitude Scales - Likert Scale,
Thurstone scale;

(ii) Indirect Measures - Physiological & projective
measures.

[3]

(d) Attitude change: concept and techniques
persuasion and role playing; Festinger's cognitive
dissonance theory.

[2]

IV. Group and Leadership

(a) Nature and characteristics of groups.

[1]

(b) Group formation: Stages and factors of group
formation; Group structure: Roles, status, norms,
communication network and cohesiveness.

[3]

(c) Leadership: Nature and emergence of leadership,
styles of leadership.

[1]

(d) **Group and individual performance: Social facilitation
and Social loafing.**

[2]

V. Social influence processes

(a) Social power: Bases of power, determinants of
social power.

[1]

(b) Conformity: Formation of group norms, conformity
and group pressure, Factors affecting conformity -
situational and individual.

[2]

(c) Compliance: strategies of compliance.

[1]

(d) Obedience to authority.

[1]

VI. Forms of Social behaviour

(a) Aggression: Theories- Instinct theory, frustration-

aggression, Social learning theory, Determinants of aggression, control of aggression.

- (b) Interpersonal attraction: Theories- need for affiliation, Reinforcement and Social exchange theories. Determinants of interpersonal attraction.
- (c) Helping behaviour: Theories- Latane & Darley's Cognitive Model, Learning Theory. Determinants of helping behaviour.

VII. Application of Social psychology

A brief idea about application of social psychology in areas of- (i) Health and (ii) Environment

BOOKS PRESCRIBED:

1. Baron, R. A. and Byrne, D. (2005). Social Psychology (10th Edition) Delhi: Pearson Education Pvt. Ltd.
2. Taylor, S. E., Peplau, L. A. & Sears, D. O. (2006). Social Psychology (12th Edition). New Delhi: Pearson Education.
3. ल.स. त्रिपाठी (1992) आधुनिक सामाजिक मनोविज्ञान। आगरा: हर प्रसाद भार्गव
4. अरुण कुमार सिंह () समाज मनोविज्ञान की रूपरेखा। नई दिल्ली: मोतीलाल बनारसी दास

B.A. / B.Sc. II
Paper III Practical

Max. Marks-50

ASSESSMENT/TEST ADMINISTRATION

1. Basic Concepts in Psychological Assessment:

- A. Purposes and types of tests**
- B. Procedures for test administration**
- C. Test reliability and validity**
- D. Current issues in assessment**

2. Students are expected to prepare a case study with the help of following FOUR Tests.

- A. Intellectual Assessment: Raven's Progressive Matrices/ Bhatia Battery/Verbal test anyone. .**
- B. Aptitude Assessment: Differential Aptitude Test.**
- C. Assessment of Anxiety: Sinha W-A Self-Analysis Form**
- D. Assessment of Personality: Adjustment inventory (Sexena/Kundu) JMPL.**

3. Experiments: Students will be required to do FOUR experiment in the areas given below:

- A. Social facilitation**
- B. Attitude change /cooperation /competition**
- C. Group conformity**
- D. Social factors in perception**
- E. Attribution**
- F. Prosocial behaviour**

Faculty of Arts

PSYCHOLOGY DEPARTMENT

UNIVERSITY OF ALLAHABAD
ALLAHABAD



LECTURE LIST 2015-16

B.A./B.Sc. Part III
THREE YEAR DEGREE COURSE

(2)

B.A./B.Sc. III
Paper I - Lifespan Human Development.

Max. Marks - 50
No. of Lectures

Introduction :

1. **Concept and nature of human development.**
The lifespan approach
Culture and development.
Determinants of development. Nature and nurture issue.
2. **An Overview of Theoretical Perspectives :**
Freud : Psychosexual development
Erikson : Psychosocial development
Piaget : Cognitive development
Information - Processing theories
Social learning theories.
3. **Research Designs for Studying Development :**
Data collection technique : Observation, Cross-sectional,
longitudinal and sequential designs.
4. **Prenatal Development :**
Mechanisms of heredity
Stages of prenatal development
Effects of prenatal environment
5. **Sensory and Perceptual Systems of Neonate.**
6. **Infancy :**
5 Perceptual development
Cognitive development
Parent - Child attachment

Early Childhood :
Cognitive development
Language development - acquisition & theories development of self.
gender identity & roles.
Parenting styles.

8. **Middle Childhood :**
7 Cognitive development. **Moral reasoning**
Personality, Cognitive styles, Socialization - siblings and peers.

9. **Adolescence**
Cognitive development.
Moral development
Adolescent turmoil and identity
Adolescents and their parents.

10. **Youth and Early adulthood :**
Adult identity
Personality adjustment
Developmental Tasks, Life-events and adjustment, Marital adjustment,
Occupational development.

11. **Middle Adult hood**
Cognitive development.
Learning in middle adulthood
Factors influencing changes in cognitive skills.
Personality stability and change
Adult development tasks, theories of Erikson, Peck, Havighurst & Levinson.

12. **Late Adulthood :** An overview of theories of aging Aging and health-physical changes & health, mental health
Changes in Intelligence with age
Cognitive decline .

(4)

RECOMMENDED BOOKS :

Gormly, Anne V. (1997). Lifespan human development VIth ed. New York : Holt, Rinehart and Willston, Inc.

Hurlock, E.B. (2002): Developmental psychology : A lifespan approach, Vth ed. New Delhi : Tata McGraw Hill.

Vander Zandeer, J. W. (1981). Human development IInd Ed. Alfred A. Knopf, Inc.

B.A./B.Sc. III Paper II
Applied Psychology : Clinical Psychology in School
Settings

Max. Marks - 50
Lectures

- | | |
|--|---|
| 1. An overview of applied psychology : use of the scientific method. | 4 |
| 2. Clinical issues : criteria for identifying problem behaviours in children, using the developmental perspective | 6 |
| 3. Clinical techniques : process of diagnosis, health history, mental status examination; psychological and educational tests, target behaviour assessment. | 8 |
| 4. Language development and language disorders : functions of language; components of language; overview of language acquisition theories; Ingram's classification of language difficulties; expressive and receptive language disorders. | 6 |
| 5. Learning Disorders : definition, characteristics, causes, Identification and interventions; dyslexia : concept and clinical features | 6 |
| 6. Perspectives on Intellectual functioning : mental retardation and its classification; academic underachievement : role | 8 |

of sociocultural, psychological and maladaptive family interaction patterns
gifted children : definition, characteristics and developmental consequences;
identification procedures :
Wechsler scales (WISC-III, WPPSI)

7. **Behavioural and conduct problems :** 4
Attention-deficit/hyperactivity disorder : core characteristics and subtypes; **conduct problems :** types of anti social behaviours
8. **Emotional disorders :** anxiety : 4
separation (anxiety), school refusal and test anxiety; depression in young people and at different development periods; autism : core characteristics
9. **Interventions :** overview of major 8
forms of intervention : medical, educational and social, psychological approaches including play therapy, family and group therapies; parent counselling and parent training
10. **Behaviour modification in classroom management :** 6
Basic assumptions; procedures : increasing desirable behaviours and controlling, undesirable behaviours.

Recommended Books

1. Anastasi (1979): *Fields of applied psychology*. New York : Mc Graw Hill.
2. Mash, E.J., & Wolfe, D.A. (1999). *Abnormal child psychology*. Belmont, CA : Wadsworth.
3. O'Leary, K.D., & O'Lavery, S.G. (1977). *Classroom manage-*

- ment : *The successful use of behaviour modification*. New York : Pergamon.
4. Suran, D.G. & Rizzo, J.V. (1979). *Special children : An integrative approach*. Glenview : Scott, Foresman and Co.
 5. Taylor, R. L. & Sternberg, L. (1989). *Exceptional children : Integrating research and training*. New York. Springer Verlag.
 6. Weiner, I.B. (1982). *Child and adolescent psychopathology*. New York : John Wiley.

(12)

B.A./B.Sc. III
Paper III - Psychological Research Methods and Measurement

Max. Marks - 50

- I. **Science & Psychological Research**
Methods of Psychological enquiry; characteristics of scientific method.
Theory & fact.
Nature of psychological research - correlational and experimental. (4) (2)
- II. **Designing Psychological Research**
Meaning, purpose and principles of research design; criteria of good research design, steps in designing research - from choosing a problem to tool construction to planning for data collection.
- III. **Research Setting**
Field - Field observation, field experiments and survey research (78) (50)
Indepth study - case study social, clinical organizational settings
Event based ex post facto research
& Library research, historical research → 13
Laboratory- lab experiments, simulation lab. (56)
- IV. **Sampling and Survey Research**
Population and sample; probability and non probability samples, methoes of drawing random sample, representativeness of sample and sampling error, types of surveys.
- V. **Development of Psychological Measures - Questionnaires & Tests**
Measurement in psychological research.

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1
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(13)

-types of scales - transformation of scale, Stanine, scores
Process of development of questionnaires and tests ; Item
writing, types of items, criteria of item selection Item analy-
sis - statistical steps, Response bias; (32.1)
Item response theory.

VI. Issues of Standardization of tests & questionnaires
Reliability - concept & methods : test retest, split half, paral-
lel form, Chronbach Alpha.
Validity - concept & methods-face, criterion-related, predic-
tive and concurrent, content, construct, cross validation.
Norms - concept & development of norms type of norms.

VII. Observation as research method
Nature & types of observation; observation as tool for data
collection
Field observation-planning for observation, training for ob-
servation, participant observation.

VIII. **Ethical Issues In Psychological Research**
Rights of research participants - Issue of confidentiality de-
ception studies; **Debriefing & informed consent, sharing re-
sults with participants.**

Books :

Kerlinger, Fred N. & Lee, Howard B (2000) Foundations of
Behavioural Research, wadsworth (4th edition).

Anastasi, A. & Urbina, S. (1997). Psychological Testing.
Delhi : Pearson Education. (seventh edition).

Singh, A. K. (1994) Research Methods in Psychology,
Sociology and Education. (English and Hindi) New
Delhi : Motilal Babnarsidas.

त्रिपाठी लाल बचन (1983) मनोवैज्ञानिक अनुसंधान पद्धति आगरा
हर प्रसाद भार्गव, आगरा।

B.A./B.Sc. III
Paper IV - Practicals

Max. Marks - 75

The Practical Course is divided into three parts : construction of scale, conducting a small survey and and observational study. In the first part, students would be required to construct a scale in one of the four areas Educational, Social, Industrial and Clinical by working together in groups. In the second part they will be required to go to their respective fields and design a small survey in which they will be able to use the scale, constructed by them in class. In the third part they will be required to conduct an observational study in the area of Human Development.

A. Construction of a psychological scale

- I. Construction of items and generation of item pool.
- II. Item analysis procedures.
- III. Selection of items.
- IV. Standardization of the scale.

B. Conducting a small study

- I. Designing a small survey utilizing the scale constructed in the class.
- II. Administering the scale in field setting and collecting the data.
- III. Interpreting the data.
- IV. Writing of survey report.

C. Observational study

- I. Conducting an observational study in naturalistic settings on any aspect of human development.
- II. Preparation of observational record.
- III. Interpretation of the data.

PSY: 501 Advances in Cognitive Psychology
M.A./ M.Sc. First Semester

1. An Introduction to Cognitive Psychology

- (a) Meaning of cognition and core concepts in cognitive psychology
- (b) A brief history of cognitive psychology
- (c) Approaches to cognitive psychology: Information processing and connectionist
- (d) A brief idea about cognitive neuroscience methods- PET, FMRI and Event Related Potential techniques. PROFESSIONAL ETHICS

2. Attention

- (a) Selective and divided attention
- (b) Theories of selective attention- filter theories and capacity models.
- (c) Attentional automaticity
- (d) Neuroscience research on attention

3. Perception

- (a) Organization in visual perception
- (b) Theories of Visual perception- top down and bottom up processes.
- (c) Face perception
- (d) Speech perception

4. Memory

- (a) Classical researches on sensory and short-term memory
- (b) The working memory

- (c) The Long-term memory- encoding and retrieval
- (d) Episodic and semantic memory distinction-structure of semantic memory
- (e) Autobiographical memory
- (f) Prospective memory- a brief introduction.
- (g) Memory distortions- seven sins of memory.

5. Thinking. HUMAN VALUES

- (a) Problem Solving strategies.
- (b) Factor that influence problem solving.
- (c) Reasoning- formal and every day reasoning.
- (d) Decision making- heuristics and biases.

Books recommended:

1. Galotti, Kathelin M. (2015). Cognitive Psychology in and out of laboratory. 5th edition. Sage Publications.
2. Matlin, M. (2014). Cognitive Psychology. 8th edition. John Wiley and Sons.
3. Kellog, Ronald T. (2012). Fundamentals of cognitive psychology. Sage Publications.

M.A./ MSc. Previous First semester

Course No.: PSY 502

Course Title: Motivation and Emotions

COURSE OBJECTIVES:

The main objective of the course is to familiarize the student with different approaches that have been used in the study of motivation and emotions. The course will also cover theories of motivation and emotions and issues related to them. Current perspectives in the area will also be addressed.

Unit-1: The study of motivation in Psychology: Historical and contemporary perspectives:

Historical origins of motivational concepts: Theory of Will, Instinct, Drive, Incentive and Arousal;
Contemporary perspectives

Unit-2: Biological and Social Motive: GENDER, HUMAN VALUES

Hunger Motive: Short term physiological model, long term physiological model, cognitive social environmental model; Need for achievement: Origins of need for achievement; Classical theories- Atkinson model, dynamics of action model, McClelland model; contemporary approach of achievement motive

Unit 3: Growth Motivation and Positive Psychology:

Holism and Positive Psychology; Maslow's need hierarchy theory, self-actualization and growth motivation; Rogerian model of self-actualization; Positive Psychology and growth. HUMAN VALUES

UNIT IV: Biological and Cognitive aspects of Emotion:

Nature of emotions; Relationship between motivation and emotion; Biological and cognitive aspect of emotion: James –Lange theory, contemporary perspective, differential emotions theory, facial feedback hypothesis; Cognitive aspects of emotion

UNIT V: Current and Cultural conceptualizations of Emotion: HUMAN VALUES AND PROFESSIONAL ETHICS

Rasa theory, Emotional Intelligence, Subjective well-being, Life satisfaction and Happiness

Books:

1. Reeve, J. (2009) Understanding Motivation and Emotion (5th Ed.) John Wiley & Sons, Inc., United States of America
2. Spence Janet. T. Izard Carol, E. (1985) Motivation Emotion and Personality. North Holland: New York.
3. Weiner, B. (1983) Theories of Motivation Holt, Rinhart and Winston: New York, USA.
4. Franken. Robert E. (1990) Human Motivation 2nd ed. Brooks/Cole Publishing Company. Pacific Grove. California, USA.
5. Weiner Bernard (1992) Human Motivation: Metaphors. Theories and Research. Sage Publications. Newbury Park. California, USA.
6. Strongman, K.T. (1987) 3rd Ed. The Psychology of Emotion. John Wiley and Sons. New York, USA.

M A 1st Semester

PSY 503: Quantitative Analysis in Psychological Research – 4 Credit

The aim of this course is to let the students understand and learn to apply various statistical (Quantitative) analyses to test the hypotheses and interpret the obtained results in order to find answers to their research problems. Students will be taught statistical analyses over and above undergraduate level statistics. Student will also be taught to use computer for quantitative analyses with the use of SPSS.

UNIT 1

Quantitative analysis – Basics of Statistical analyses

Hypothesis testing: Importance of hypothesis testing and interpreting the results in psychological research, measurement levels and analysis

An overview of statistical analysis learnt at undergraduate level – Central tendency, variability, correlation, Normal probability Curve, types of errors in hypothesis testing, types of t tests etc.

UNIT II

Analysis of variance – Basic Designs

Experimental designs – variance control function, Introduction to Analysis of Variance

Calculation of ANOVA - Randomised group design; Repeated measure design; Block design. Planned comparison of means, Newmann Keul test; Trend Analysis;

UNIT III

M. A. I Semester

PSY 504: Advanced Research Methods (4 Credit hours)

Course Objectives: This course is designed to familiarize students with basic concepts, methods of research and their applications. Both experimental and field methods of research will be discussed in detail. Also included in this course are some unobtrusive and qualitative methods of research. The students will be required to work out field applications of these methods to develop practical understanding.

UNIT 1: Introduction to Behavioural Research

Goals of behavioural research; Characteristics of scientific approach; The role of theory in science; Research hypothesis; A priori predictions and post hoc explanations; Conceptual and operational definitions, Strategies of behavioural research.

UNIT 2: Experimental Research-Laboratory Experiments

Lab Experiments: Designs: Randomized Group, Randomized Block, Repeated Measure, Pre-Post Designs, Factorial Designs.

Single Subject Design: Withdrawal (ABA) and Reversal Designs.

UNIT 3: Experimental Research-Quasi and Social Experiments

Quasi Experiments: Non-Equivalent Control Group Designs; Time Series Designs.

Social Experiments: Experimental vs. Mundane Realism; Ways to Control and Manipulate Variables; **Ethical Problems in Experimental Research.** Professional ethics

UNIT 4: Survey Research and Sampling

Nature of Survey Research and Sampling; Designs of Survey Research: Longitudinal, Cross-Sectional and Cohort designs.

Sampling strategies: Probability and Non-Probability Sampling Techniques: Random, Stratified, Cluster, Quota and Snowball Sampling.

UNIT 5: Qualitative Research Methods

Nature and Characteristics of Qualitative Research; Comparison of Qualitative and Quantitative Research; Theoretical Bases of Qualitative Research.

Some Important Methods: Content Analysis, Narrative Research, Focus Group Discussion.

Recommended Books:

1. Blackstone, Amy (2012). Principles of Sociological Inquiry: Qualitative and Quantitative Methods (Black and White Print Textbook)
2. Breakwell, Hammond, Schaw and Smith (2007). Research Methods in Psychology. Sage, New Delhi.
3. Cook and Campbell (1979). Quasi-experiments. Rand McNally College Publishing Company, USA.
4. Elmes, D.G., Kantowitz, B.H., Roediger, H. L.(2012) Research Methods in Psychology. Woodsworth Cengage Learning, USA.
5. Kerlinger, Fred, Lee and Howard (2000). Foundations of Behavioural Research. Surjeet Publications, Delhi.

6. Leary, M. R. Introduction to Behavioral Research Methods. Allyn and Bacon.
7. Singh, A.K. (2008) Test, measurements and Research Methods in Behavioural Sciences, Bharti Bhawan, New Delhi (English)

M. A./M.Sc. I Semester

PSY. 531: Laboratory Experiments

Credit: 4

Course objectives: The purpose of this course is to impart knowledge and skills relating to planning and conducting psychological experiments. Students will be required to select an area of investigation, develop an experimental plan, collect data in the lab, analyse the data, interpret and submit a report at the end of the semester.

Unit I: Introduction to experimental method in psychology. PROFESSIONAL ETHICS

Unit II: Designing of experiments. PROFESSIONAL ETHICS

Unit III: Experiment 1- Cognitive Processes

Unit IV: Experiment 2- Affecting Processes

Unit V: Report writing

Reading material- to be provided by the instructor/s.

MA/ MSc Psychology II semester

PSY 506: Advances in Social Psychology – Credit 4

Course Objectives: The aim of this course is to let the students appreciate some basic issues in social psychology over and above the undergraduate level basic course in social psychology. As part of the internal assessment the students will be required to do some exercises such as experiments/ review of some journal articles and class presentations which are expected to enrich their understanding of the issues discussed in class.

Unit I : Theoretical approaches and explanations of social behavior

- (a) Social Psychology- Past, present and future
- (b) An introduction to major theoretical approaches in social psychology e.g. learning theory, Field theory, role theory, cognitive theory orientation, symbolic interaction approach

Unit II: Language & Communication

- (a) Nature of language- signs, symbols & sharing of meaning
- (b) Social aspect of language- paralinguistic, speech style, social markers of language
HUMAN VALUES
- (c) Non-verbal communication-facial expressions, gestures, postures, physical and environmental clues etc.
- (d) Contact between cultures-ethno-linguistic vitality, second language acquisition

Unit III: The Social Nature of Self: Self & Identity

- (a) Self and Identity- Development of social self
- (b) Sex and gender- gender as crucial aspect of identity, gender stereotypes GENDER
- (c) Knowing the self- Self concept, self awareness and self perception
- (d) Feeling about self- Self esteem, self motives, and self discrepancy theory
- (e) Dealing with self- Self monitoring and self presentation

Unit IV: Social cognition & Attitudes HUMAN VALUES

- (a) History of social cognition research- From Asch's impression formation & Anderson's cognitive algebra to modern schema approach
- (b) Schema- schema and prototypes, types of schema, schema development and change
- (c) Social cognitive processes and person perception- encoding, storage and retrieval of social information, salience and vividness, social inference- priming, errors in inference
- (d) Attitudes: Attitude formation, attitudes and behavior, Reasoned action theory
- (e) Changing attitudes- persuasion and attitude change, cognitive theories of attitude change

Unit V: Group Processes and minority influence. HUMAN VALUES

- a) Interaction in groups- individual vs group performance, roles in groups, group norms

- b) Group decision making- brainstorming, nominal group and Delphi techniques, faulty decision making, groupthink and group polarization
- c) Social exchange-co-operation and competition, Prisoners' dilemma, Social dilemma
- d) Conformity and Minority Influence- Social Impact Theory

Reference Books:

1. Baron, R. A. & Byrne, D. (2012). Social Psychology. Singapore: Pearson Education Pvt Ltd.
2. Hogg M. A. & Vaughan, G. M. (2005). Social Psychology. Edinburgh Gate: Pearson Education Pvt Ltd
3. Stephen, C. W. & Stephen, W. G. (1985). The Two Social Psychologies. Illinois: Dorothy Press
4. Hewstone, M. Stroebe, W. & Jones, K. (Eds) (2012). An Introduction to Social Psychology. West Sussex, UK: John Wiley & Sons

M. A. II Semester

PSY 507: Classic Theories and Modern Perspectives in Personality (4 Credit hours)

Course Objectives: The course is concerned with basic classical theories of personality and modern perspectives. The classical theories include basic age old issues of human nature. The students of personality would gain the understanding of human life and its meaning. The course also has a foundation in conceptual and empirical scientific advances in the modern era. The students shall be given exercises to develop skills to understand the depth of human nature.

MODULE 1:

1. Personality and Science, a brief history of Personality Psychology.
2. Psychoanalytic aspects of personality. GENDER

MODULE 2: HUMAN VALUES AND GENDER.

3. Neo-analytic aspects of personality: Jung, Adler, Karen Horney, Erikson, Mahler.
4. Behavioural and learning aspects of personality: Skinner, Hull, Dollard Miller, Sears.

MODULE 3: HUMAN VALUES

5. Cognitive and social cognitive aspects of personality: Kelly, Lewin, Bandura, Rotter.
6. Trait and skill aspects of personality; Cattell, Allport, Big- five factors, Social emotional skill (intelligence), Eysenk.

MODULE 4: HUMAN VALUES

7. Humanistic-Existential aspect of Personality.
8. Person situation Interactionist aspects; Murray, Mischel and integrative approach.

MODULE 5:

9. Culture and personality

10. Important issues in Positive Psychology. HUMAN VALUES

Reference Books:

1. Liebert , R. M. & Spiegler, M.D. (1997). Personality: Strategies and Issues. 6th ed. California: Brooks/Cole Publishing Co., Pacific Grove.
2. Hall, C., Lindzey, G. & Campbell John,B (1998). Theories of Personality. 4th ed. J. New York: Wiley and Sons.
3. Hjelle, L. A. & Ziegler, D. J. (1991). Personality Theories: Basic Assumptions, Research and Applications, 2nd ed. McGraw- Hall, International Student Edition.
4. Friedman, H. S. & Schustack, M. W. (2004). Personality: Classic Theories and Modern Research. New Delhi: Pearson Education Pvt. Ltd.
5. Mischel, W., Yuichi, S. R. & Smith, P. E. (2004). Introduction to Personality: Toward an Integration. New York: John Wiley and Sons.
6. Seligman, M. E. P. (2002). Authentic happiness: using the new Positive Psychology to realize your potential for lasting fulfilment. New York: Free Press. ('A Guide to developing positive emotions, positive character and personal satisfaction').
7. Frager, R., & Fadiman, J. (2007). Personality and personal Growth. New Delhi: Pearson Education. Pvt.Ltd.
8. Berry, J. W., Poortinga, Y., Segall, M. & Dasen, P. Cross- Cultural Psychology: Research and Applications. New York: Cambridge University Press.

M.A./M.Sc. II Semester

Course No.: PSY 505

COURSE TITLE: Physiological Foundations of Psychological Processes

Course objectives:

The main objective of this course is to familiarize students with the basic structure, functions and anatomy of the physiological systems involved in different psychological processes, such as learning, memory and emotions. The course will provide basic understanding of neural functioning and the role of different brain areas in cognitive and affective processes. The role of biological factors in psychopathology will also be addressed.

Unit I: Nature of Physiological Psychology

- ❖ Biological roots
- ❖ **Methods.** Professional ethics

Unit II: Structure and Functions of the cells of the Nervous System

- ❖ Cells of the Nervous System
- ❖ Communication within a neuron
- ❖ Communication between neurons

Unit III: Structure of the Nervous System

- ❖ Cerebral cortex: anatomical and functional subdivisions
- ❖ Limbic system, basal ganglia, hippocampus, hypothalamus, and diencephalon
- ❖ Brain stem
- ❖ Cerebellum

- ❖ Spinal cord
- ❖ Autonomic nervous system

Unit IV: Neurophysiological structures underlying learning, memory and emotional behavior

- ❖ Learning and synaptic plasticity: Long-term potentiation, NMDA receptors, mechanisms of synaptic plasticity
- ❖ Relational learning: Anterograde amnesia, anatomy of anterograde amnesia
- ❖ Emotions as response patterns: The role of the amygdala in fear, anger, and aggression

Unit V: Understanding Psychiatric Disorders

- ❖ Psychotic disorders
- ❖ Mood disorders
- ❖ Anxiety disorders

References

1. Beaty, J. (2001). *The Human Brain: Essentials of Behavioral Neuroscience*. Thousand Oaks: Sage Publications.
2. Carlson, N.R. (1999). *Foundations of Physiological Psychology*. Boston: Allyn & Bacon.
3. Gazzaniga, M.S., Ivry, R.B., & Mangun, G.R. (2002). *Cognitive Neuroscience: The biology of the mind*. New York: W.W. Norton & Company.

M.A./M.Sc. II Semester

PSY 508: Environmental Psychology

Credit: 04

Course objectives: The objective of this course is to introduce the area of environmental psychology which seeks to understand the relationship between human behaviour and well-being in relation to the socio-physical environment. Through this course the students will understand the nature, scope and basic concepts of environmental psychology and environmental influence. Frontier areas of environmental psychology will also be discussed.

Unit I: Environmental Psychology: History, Scope and methods

Introduction:

- Definitions
- Typology of Environment
- Built natural environmental/physiology
- Social environment
- Environment, Culture and Behaviour
- History
- Methods

Unit II: **Environment: Physical/Natural Environment.** Environment and Sustainability

- Attitudes
- The Lithosphere
- The Atmosphere
- The Biosphere
- Temperature
- Humidity

Social Environment:

- Language
- Culture
- Health

Built Environment:

- Neighbourhood

- Places and Spaces
- Building Green spaces, Parks
- Supporting infrastructure
- Water supply
- Transportation

Unit III: Processes of Person-Environment. Environment and Sustainability

- Environmental Cognition
- Environmental Perception
- Environment Stress

Unit IV: Environmental Stressors. Environment and Sustainability

- Territoriality
- Crowding
- Noise
- Air Quality
- Traffic
- Garbage
- Water

Experiences, Consequences and Adaptation to stressors

Theories in Environment and Behaviour

Unit V: Disaster and their Management. Environment and Sustainability

- Natural Disasters
- Manmade Disasters
- Disaster Prevention, Management

Books:

1. Bechtel, R. B., & Bechtel, R. B. (1997). *Environment and behavior: An introduction*. Sage Publication
2. Gifford, R. (2007). *Environmental psychology: Principles and practice* (p. 372). Colville, WA: Optimal books.
3. Steg, L. E., Van Den Berg, A. E., & De Groot, J. I. (2013). *Environmental psychology: An introduction*. BPS Blackwell.
4. Stokols, D., & Altman, I. (Eds.). (1987). *Handbook of environmental psychology* (Vol.1 & 2). John Wiley & Sons.

M. A./M.Sc. II Semester

PSY 532: Interviewing and Field Work

Credit:4

Course objectives: The purpose of this course is to introduce to students PRA as a technique of community intervention in developmental projects. The students will be trained in the application of PRA as a foal for research and evaluation. Besides in this course, students will also learn skills for preparing interview schedules and conducting interviews.

Unit I: Introduction to interviewing

Unit II: Construction of an interview schedule

Unit III: Practicing interviewing skills. PROFESSIONAL ETHICS

Unit IV: Data collection and analysis. HUMAN VALUES AND PROFESSIONAL ETHICS

Unit V: Report writing

Reading material- to be provided by the instructor/s.

M.A./M.Sc. III Semester

PSY 651: Health Psychology

Credit: 4

Course Objectives:

The course aims to understand the field of health and is an exploration of the role of psychological factors in the prevention and maintenance of good health, the treatment of already existing illness, and recovery from or adaptation to on-going illness. An attempt is made to impart a body of knowledge, together with theory and to the application of knowledge in everyday life. Whenever possible, Indian researcher would be discussed.

Course Content:

Unit-I: An Overview of Psychology and Health

What is health? Current perspectives on health and illness, Conducting Research

The Body's Physical System: The Endocrine System, The Cardiovascular System, The Immune System

Unit-II: Health Beliefs and Illness Cognitions

Health behaviours, Lay theories of health, Health belief models

Meaning of being healthy and ill; Illness cognitions; Leventhal Self-regulatory Model of Illness Cognitions and Coping

Unit-III: Lifestyles to Enhance Health and Prevent Illness

Health and Behaviour; General Factors in Health-Related behaviours; Developmental, **Gender and Socio-cultural Factors in Health.** GENDER

Substance Use and Abuse, Alcohol Use and Abuse,

Obesity and Eating Behaviour, Nutrition, Weight Control and Diet, Exercise

Unit-IV: Becoming Ill and Getting Medical Treatment

The Management of Pain and Discomfort, Perceiving and Interpreting Symptoms;

Patients-Practitioner Relationship; Compliance; Adhering to Medical Advice, In the Hospital: The setting and effects on patients,

Unit-V: Chronic and Life-Threatening Health Problems, Looking to the Future

Adjustment to Chronic disease: Cancer, HIV, Diabetes Mellitus, Coronary Heart Disease;

Psychosocial Interventions for people with Chronic Conditions; Looking to the future,

Recommended Books:

1. Di Matteo, R.M. & Martin R. Lesbe (2002). *Health Psychology*: Boston: Allyn& Bacon.
2. Sarafino, E. P.(1998). *Health Psychology, Third Edition*, New York, John Wiley & Sons.
3. Taylor, Shelly, E. (2006). *Health psychology*. Tata McGraw-Hill Education.
4. Ogden, J. (2004). *Health Psychology: A textbook 3rd edition*. New York.

M.A./M.Sc. II Semester

COURSE NO: PSY 657

COURSE TITLE: CLINICAL PSYCHOLOGY

NO. OF CREDITS: 4 (40 contact hours)

Course objectives:

This introductory course aims to introduce students to the field of clinical psychology and its practice in India. Different models regarding the causation of mental illness and dysfunctional behaviours will be presented and the contribution of these approaches to the pathogenesis of a wide range of mental and behavioural disorders will be presented. An additional objective is to discuss the different classification schemes and the multiple assessment procedures used. Frontier areas in clinical psychology will also be discussed. Students will be required to practice some of the basic procedures taught in clinical settings.

UNIT I: Introduction

- ❖ Field of clinical psychology
 - ❖ Clinical psychology in India: History, current status and professional issues.
- PROFESSIONAL ETHICS

UNIT II: Models of Clinical Psychology I

- ❖ Psychodynamic model (Freud and Adler). PROFESSIONAL ETHICS
- ❖ Behavioural model. PROFESSIONAL ETHICS
- ❖ Phenomenological model. Human values

UNIT III: Models of Clinical Psychology II

- ❖ Cognitive model. PROFESSIONAL ETHICS AND HUMAN VALUES
- ❖ Biological model
- ❖ Other models: Systems model, MMPI model

UNIT IV: Clinical Assessment Procedures

- ❖ Signs and symptoms of mental disorders
- ❖ Current classifications schemes (ICD-11, DSM-5)
- ❖ History Taking and Mental Status Examination. HUMAN VALUES
- ❖ Clinical Interview. HUMAN VALUES
- ❖ Testing. PROFESSIONAL ETHICS

UNIT V: Extensions and Applications

- ❖ Clinical Child Psychology. HUMAN VALUES
- ❖ Clinical Neuropsychology

References

1. *Diagnostic and statistical manual of mental disorders: Fifth edition*, (2013). Washington, D.C.: American Psychiatric Association.
2. Gelder, M., Mayou, R., & Cowen, P. (2001). *Shorter Oxford textbook of psychiatry*. New Delhi: Oxford University Press.
3. Hecker, J.E., & Thorpe, G.L. (2005). *Introduction to clinical psychology: Science, practice, and ethics*. Delhi: Pearson Education.
4. Kaplan, H.I., Freedman, A.M., & Sadock, B.J. (Eds., 1980). *Comprehensive textbook of psychiatry III* (Vol.1). Baltimore: Williams & Wilkins.
5. Kendall, P.C., & Norton-Ford, J.D. (1982). *Clinical psychology: Scientific and professional dimensions*. Chicester: John Wiley.
6. Nietzel, M.T., Bernstein, D.A., & Milich, R. (1998). *Introduction to clinical psychology*. (Fifth Edition). New Jersey: Prentice-Hall.

7. Prabhu, G.G. (1983). Clinical psychology: Then and now. *Indian Journal of Clinical Psychology*, 9, i-xvi.
8. Rao, K., & Mehrotra, S. (1998). Clinical psychologists in India: A time for reflection and action. *Indian Journal of Clinical Psychology*, 25, 124-135.
9. Thapa, K. (2000). Clinical psychology in India: Dilemmas and challenges. *Indian Psychological Abstracts and Reviews*, 7, 231-272.
10. *The ICD-11 classification of mental and behavioural disorders: Clinical descriptions and diagnostic guidelines* (2018). Geneva: World Health Organization.
11. Watson, R.I. (1952). *The clinical method in psychology*. New York: Harper.

Course No.: PSY-653

Course Title: Developmental psychology

COURSE OBJECTIVES:

The course has been designed with an objective to provide a good knowledge base in the area of developmental psychology. It aims to cover the conceptual issues, theories, current and changing perspectives on human development. Further, the focus is on certain selected themes which have drawn the attention of development psychologists world over and on their research contribution which have enriched the understanding of human development.

1. Concepts, trends and issues in human development. HUMAN VALUES AND PROFESSIONAL ETHICS

Life span development psychology; modern approaches to life span development; life span development and culture

2. Stages of human development and salient characteristics. HUMAN VALUES

Prenatal to adolescence

Adulthood to aging

3. Cognitive Development

Theories of Werner, and Piaget

Information processing approaches

Vygotsky's social-historical development

Cultural factors in cognitive development

4. Moral Development

Piagetian contribution

Kohlberg's theory of moral reasoning

Turiel's constructivist /interaction theory

Shweder's social communication theory

5. Socialization and the institutions of society. PROFESSIONAL ETHICS AND HUMAN VALUES

Concepts of socialization

Psychological approach to socialization

Enculturation, socialization and acculturation

Eco-cultural perspectives

Parenting styles

Socialization in the Indian context. HUMAN VALUES

Reading List:

Books:

1. Berk, L.E. (1999). *Child Development*, 3rd.Ed. New Delhi: Prentice Hall.
2. Berk, L.E. (2004). *Development through the Life Span*, Pearson Education. Inc.
3. Berry, J.W., Poortinga, Y.H., ; Segall, M.H., & Dasen, P.R. (2002). *Cross-Cultural Psychology*: Cambridge University Press.
4. Kakar, S. (1979). *Indian Childhood: Cultural Ideals and Social Reality*. Delhi: Oxford University Press.
5. Saraswati, T.S. (Ed.) (2003). *Cross-Cultural Perspectives in Human Development: Theory Research and Applications*. Sage: New Delhi.
6. William, Crain.(2005). *Theories of Development: Concepts and Applications*. Pearson Education: New Jersey.

Chapters from books:

7. Baltes, P.B., & Brim, O.G. Jr. (1979). *Life Span Development & Behavior*, Vol. II. New York; Academic Press.
 - a. Life-Span Developmental Psychology: Some Converging Observations on History and Theory. Paul B Baltes, Pp.256-274.
8. Berry, J.W., Dasen, P.R., & Sarswathi, T.S.(1997). *Handbook of Cross-Cultural Psychology: Basic Processes And Human Development* Vol Boston: Allyn Bacon.
 - a. Human Development in Culture across the Life-Span, J. Vasiner, & J. Lawrence.
 - b. Cognition and Cognitive Development, Pp.145-175.
 - c. The Development of Moral Judgment, L. Eckensberger, & R. Zimba.
9. Pawlik, K. & Rozenzweig, M. R. (2000). *The International Handbook of Psychology*, pp.235-260. London: Sage.
 - a. Developmental Psychology I: Prenatal To Adolescence: Heidi Keller
 - b. Developmental Psychology II: Adult hood And Aging: Lea Pulkkinen

M. A. (Final) III Semester

PSY659: Organizational Behaviour (4 Credit hours)

The main aim of this course is to introduce the salient features of the field of Organizational Behaviour. This would include, both, the behaviour of the individuals in organized settings as well as the behaviour of Organizations in their environment. Here, the emphasis is on developing the conceptual apparatus to understand the functioning of organizations and the application of these basic concepts to the understanding of Indian organizations.

Unit I: Introduction to Organizational Behaviour

- Defining Organizational behaviour- Characteristics of organizations, organization and environment, Organizational behaviour as managing people and organization.
- Historical roots and approaches to Organizational Behaviour- Scientific management, Classical organizational theories, Human relations movement.
- Contemporary perspectives in Organizational behaviour- system and open system approaches, contingency perspective, interactional perspective.

Unit II: Interpersonal processes in Organization

- Motivation: A brief overview of major content and process theories of motivation- Maslow's & ERG Theories; Motivating performance at work settings- MBO and employee engagement programmes.
- Power and politics in Organization: Power in organization, types and uses of power, lower level employee power; power, authority and control in organizations, political behaviour in organization.

Unit III: Group Processes and Leadership in Organization

- Group dynamics: importance of groups in organization; Groups and teams– types of teams, building effective teams.
- Classical and contemporary approaches to leadership- trait approach, behavioural approach and situational/contingency approach, Fiedler's and Hersey & Blanchard's Theories. Charismatic leadership and transformational leadership, Nurturant Task Master, leadership across cultures.
- Decision making in Organization:
Individual decision making- processes and models- rational model and bounded rationality, behavioural model, political model.

Group decision making- Brainstorming, Nominal group technique, Delphi technique.

Unit IV: Organizational Processes. HUMAN VALUES AND PROFESSIONAL ETHICS

- Role taking in organizations: organization as a system of roles, role episode, factors affecting role behaviour- individual and organizational factors.

- Organizational culture: nature and definition of organizational cultures, approaches to culture- Ouchi framework, Peters and waterman approach, determinants of culture, teaching of culture.
- Organizational Socialisation: Work and organizational socialisation, Schein and Van Maanen theory, Stages of socialisation process, techniques of socialisation.

Unit V: Emerging issues in Organizational Behaviour. HUMAN VALUES, GENDER AND PROFESSIONAL ETHICS

- Diversity in Organizations: Diversity issues, managing diversity in organization.
- Ethics in organization- ethical and unethical behaviours.

Recommended Books:

1. Luthans, F. (2002). Organisational Behaviour. (9th ed). NY: McGraw- Hill International edition.
2. Robbins, S. P. (2013). Organisational Behaviour. (15th ed). New Delhi: Prentice Hall of India Private Ltd.
3. Morehead , G. & Griffin, R. W. (1997). Organisational Behaviour. (3rd ed) Delhi: Jaico Publishing House.
4. Katz, D. & Kahn, R. L. (1978). The Social Psychology of Organisations. New York: John Wiley & Sons.
5. Hellriegel, D., Slocum, J. W. & Woodman, R. W. (1998). Organisational Behaviour. (8th ed). Ohio: South-Western College Publishing.

M.A./M.Sc. IV Semester

Course No.PSY 651

Credit:4

Course Title: Stress and Coping

Course Objectives: The purpose is to familiarize the students with the concept of stress, different models of stress, sources and consequences of stress and the different way of coping. By the end student would have a better understanding of stress as a concept, how it affects our life and how they can deal with it, to avoid its negative effects.

UNIT-I STRESS AND ITS MEANING

- What is stress, **concepts of Stress in Indian and Western tradition**, Myths and Facts about Stress, Physiology of Stress, Psychoneuroimmunology. HUMAN VALUES
- Measuring stress: Physiological Arousal, Life Events and Daily Hassles

UNIT II- MODELS OF STRESS

- Physiological Models of Stress: General Adaptation Syndrome Model and Cannon's Flight or fight Model.

- Load of Information Models: Stimulus Overload/Underload Model and Optimal Information Flow and Mood.
- Interactional Models: Cognitive Model of Stress, Person-Environment (P-E) Fit Model and Systems Model of Stress

UNIT III- SOURCES AND CONSEQUENCES OF STRESS

- Sources of Stress: Source within Job, Family and Society
- Burnout: Concept and its impact on Health.
- Consequences of Stress- Medical Consequences: Hypertension, Coronary Heart Diseases and Breast Cancer.
- Other Consequences of Stress: Behavioural, Emotional and Cognitive consequences.

UNITIV- STRESS RESPONSE AND ITS MODIFIERS

- Psychophysiology of Stress Response
- Modifiers of Stress: Social Support, Sense of Personal Control and Personality- Hardy Personality, Type A& Type B behaviour pattern and Hostility.

UNIT V- COPING AND STRESS MANAGEMENT. PROFESSIONAL ETHICS

- Definition of coping, Methods of Coping: problem focused coping, emotion focused coping, engagement coping, disengagement coping, accommodative coping, meaning focused coping and proactive coping
- Strategies for Coping: emotional discharge, cognitive redefinition, denial, intellectualization, avoidance and time management
- What is stress management, techniques of stress management: medication, relaxation, systematic desensitization, biofeedback, modeling, meditation, hypnosis, buffer creation and social support interventions.

References:

1. Agrawal, R. (2001). *Stress in life and at work*. Sage Publications.
2. Misra, G. (Ed.). (1999). *Psychological perspectives on stress and health*. Concept Publishing Company.
3. Pestonjee, D. M. (1992). *Stress and coping: The Indian experience*. Sage Publications Ltd.
4. Quick, J. C., Quick, J. D., Nelson, D. L., & Hurrell Jr, J. J. (1997). *Preventive stress management in organizations*. American Psychological Association.
5. Sarafino, E. P., & Smith, T. W. (2014). *Health psychology: Biopsychosocial interactions*. John Wiley & Sons.
6. Taylor, S. E. (2015). *Health psychology*. McGraw-Hill Education.

M. A. (Final) IV Semester

PSY 660: Human Resource Management (4 Credit hours)

The aim of this course is to initiate the students interested in pursuing careers in the corporate world into some basic functions of human resource management/ personnel management. It will deal with topics such as functions of HR/ Personnel managers, man power planning, job analysis, recruitment, selection and placement, remunerations and rewards. A basic knowledge of Organisational behaviour is the pre-requisite. As part of internal assessment students will be required to do some exercises/practicum in any one of the HR function and submit the report and also do class presentations.

Module I

Introduction: Human Resource Management

- (a) Evolution of management of human resources
- (b) From personnel management to human resource management
- (c) **Immediate context and HRM** GENDER
- (d) HRM in India
- (e) Functions of HR managers

Module II

Human resource planning

- (a) Definition and need for manpower planning
- (b) Assessing current human resources
- (c) Assessing future need – demand and supply of manpower
- (d) Techniques for determining human resource requirements
- (e) Indian perspective on human resource planning

Module III

Recruitment and selection

- (a) Recruitment process
- (b) Job analysis
- (c) Methods and techniques of recruitment
- (d) Problems of recruitment in India
- (e) Selection processes
- (f) Selection methods – application, tests, interviews, job review
- (g) Barriers to effective selection

Module IV

Remuneration and reward. HUMAN VALUES AND PROFESSIONAL ETHICS

- (a) Theoretical foundations of remuneration strategies
- (b) Compensation administration
- (c) Factors determining pay
- (d) Salary and wages
- (e) Rewarding productive employees vs. rewarding teams

Module V

Performance appraisal/ Management. PROFESSIONAL ETHICS

- (a) Nature and significance of performance appraisal (PA)
- (b) Issues in PA
- (c) Methods of PA

Recommended Books:

1. Beardwell. I. & Holden. (1996). Human Resource Management- A contemporary perspective. Delhi: MACMILLAN India LTD.
2. Dwivedi, R. S. (1997). Managing Human Resources – Personnel Management in Indian enterprises. New Delhi: Galgotia Publishing Company.
3. DeCenzo, D. A. & Robbins, S. P. (1997). Personnel/ Human Resource Management. New Delhi: Prentice Hall of India Private Limited.

M.A./M.Sc. IV Semester

Course No: PSY 658

Course Title: Clinical Interventions:

Course objectives:

Building upon the introductory course on Clinical Psychology, this paper focuses on the contribution of different models to the area of clinical interventions. The major psychotherapeutic traditions are discussed and critically evaluated and their applicability to different types of problems is presented. Group, family and community-level interventions are also discussed. Students will be required to practice some of the basic procedures taught in clinical settings.

Unit I: Therapeutic interventions

- Defining psychotherapy, therapeutic commonalities. HUMAN VALUES
- Course of clinical interventions: PROFESSIONAL ETHICS

Unit II: Interventions with individual

- Psychoanalysis and psychodynamic therapies (with a focus on Alder)
- Person-centred therapy
- Existential psychotherapies. PROFESSIONAL ETHICS AND HUMAN VALUES

Unit III: Cognitive-behavioural interventions

- Behaviour therapy techniques
- Rational emotivebehaviour therapy
- Cognitive therapy.
- Cognitive-behaviourtherapy. PROFESSIONAL ETHICS AND HUMAN VALUES

Unit IV Group interventions

- Mechanisms of group psychotherapy and group processes
- Interventions with families. PROFESSIONAL ETHICS AND HUMAN VALUES

Unit V: Community and cultural approaches

- Primary, secondary and tertiary prevention,
- Crisis theory and intervention,
- Indian notions of psychotherapy.

PROFESSIONAL ETHICS AND HUMAN
VALUES

References:

1. Kaplan, H.I., Freedman, A.M., & Sadock, B.J. (Eds., 1980). *Comprehensive textbook of psychiatry III* (Vols. 2 & 3). Baltimore: Williams & Wilkins.
2. Kendall, P.C. & Norton-Ford, J.D. (1982). *Clinical psychology: Scientific and professional dimensions*. Chichester: John Wiley.
3. Nietzel, M.T., Bernstein, D.A., & Milich, R. (1998). *Introduction to clinical psychology*. (Fifth Edition). New Jersey: Prentice-Hall.
4. Prochaska, J.O. & Norcross, J.C. (2003). *Systems of psychotherapy: A transtheoretical analysis*. Pacific Grove: Brooks/Cole.
5. Sahakian, N.S., (Ed., 1976). *Psychotherapy and counselling: Techniques in interventions*. Chicago: Rand McNally.

M.A./M.Sc. IV Semester

Psy 654: Theories of Human Development

1. **What is a theory? HUMAN VALUES AND PROFESSIONAL ETHICS**
 - 1.1 Structural components of Developmental theories.
 - 1.2 Limitations of Developmental theories.
 - 1.3 Families and paradigms of Developmental theories.

2. **Endogenous Paradigm: GENDER AND HUMAN VALUES**
 - 2.1 Freud and Psychoanalysis
 - 2.2 Erikson and Psychosocial theories
 - 2.3 Wilson and Socio-biology
 - 2.4 Chomsky and generative Grammar
 - 2.5 Ainsworth and Infant attachment

3. **The Exogenous Paradigm: GENDER AND HUMAN VALUES**
 - 3.1 Skinner and operant conditioning
 - 3.2 Bandura and Social Cognitive theories
 - 3.3 Vygotsky and Zones of development

4. **The Constructive Paradigm: GENDER AND HUMAN VALUES**
 - 4.1 Piaget and cognitive development
 - 4.2 Kohlberg and moral development
 - 4.3 Levinson conception of theory of adult development

5. **Future directions in developmental Psychology. PROFESSIONAL ETHICS**
 - 5.1 Cognitive revolution, age of information
 - 5.2 The human genome project, Brain research.

References

1. Paranjpe, A.C. (2010). Theories of self and Cognition: Indian Psychological perspective, *Psychology and Developing Societies*, 22(1), 5-48.
2. Bhattacharya, O., Chatterjee, A. and Basu, J. (2017). Humility: an emerging construct in moral development, *Psychological Studies*, 62(1), 1-11.
3. Mishra, A. and Dalal, A.K. (2015). The young and the old- Ambiguity of the Role models and values among Indian youth: *Psychology of India-Durganand Sinha*. New Delhi: Sage.
4. Levinson, Daniel, J. (1986). A conception of Adult Development. *American Psychologist*, 41(1), 3-13.
5. Garcia, A.S., Guzman, M. RT.de (2017). Filipino Parenting in the USA: The experiences of Filipino Mothers in Northern Nevada. *Psychology and Developing Societies*, 29(2), 264-287.
6. Green, M. and Piel, J.A. (2002). *Theories of Human Development*. Allyn and Bacon.

M.A./M.Sc. Semester IV (2021)

PSY 634: Behavioural Skills

Course objectives:

In this course the students will be trained building communication skills; interpersonal skills and stress management skills, which are necessary for application of psychological knowledge in everyday life.

Unit I: An introduction to Behavioural Skills: human values

Unit II: Behavioural Skills 1 - Processes Related to Self

Unit III: Behavioural Skills 2- Interpersonal Process- Communication and Feedback: human values

Unit IV: Behavioural Skills 3- Group Process: professional ethics

Reading material - to be provided by the instructor/s.

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27.01.2021

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27.1.2021

Rishi
27/01/2021

M. A./M.Sc. III Semester

PSY 533: Psychological Testing

Credit: 4

Course objectives: This course aims to instruct students in the administration, scoring and interpretation of major psychological tests, such as intelligence and personality tests. These tests include both objective and projective tests such as the Myers-Briggs Type Indicator (MBTI), the Wechsler Adult Intelligence Scale –Third Edition (WAIS-III), the Thematic Apperception Test (TAT) and the Rorschach Inkblot Test. Students will also learn related skills such as, gathering bio-data information, behavioural observation and report writing.

Unit I: Theoretical bases of testing.

Unit II: MBTI: Administration, scoring, interpretation and report writing.

professional ethics

Unit III: WAIS-III: Administration, scoring, interpretation and report writing.

professional ethics

Unit IV: TAT: Administration, scoring, interpretation and report writing.

professional ethics

Unit V: Rorschach: Administration, scoring, interpretation and report writing.

professional ethics

References:

1. Anastasi, A., & Urbina, S. (1997). *Psychological testing*. Prentice Hall/Pearson Education.
2. Gregory, R.J. (1996). *Psychological Testing: History, principles and applications*. Boston: Allyn and Bacon.
3. Klopfer, B., Ainsworth, M.D., Klopfer, W.G., & Holt, R., (1995). *Developments in the Rorschach Technique: Vol. 1, Technique and theory*. New York: World Book Company.
4. Murray, H.A. (1938). *Explorations in personality*. New York: Oxford University Press.

Reading Material- to be provided by the instructor/s.

सत्र- 2018-19 से प्रभावी पाठ्यक्रम

संस्कृत- बी0 ए0 -प्रथमवर्ष

प्रथम-पत्र

पूर्णाङ्क-75

अभिज्ञानशाकुन्तलम्-

इकाई 1-हिन्दी-अनुवाद

10×2=20

इकाई 2- संस्कृत व्याख्या

10×1=10

संस्कृत छाया

04

इकाई 3 (क) समालोचनात्मक प्रश्न

06

(ख) नाट्यशास्त्रीय पारिभाषिक शब्दों पर टिप्पणी

5× 2=10

इकाई-4 साहित्यदर्पण से निम्नलिखित अलंकारों का लक्षण एवम् उदाहरण सहित परिचय-
15

अनुप्रास, यमक, श्लेष, उपमा, रूपक, उत्प्रेक्षा, अतिशयोक्ति, सन्देह, भ्रान्तिमान्, व्यतिरेक, अपह्नुति, प्रतिवस्तूपमा, दृष्टान्त, अर्थान्तरन्यास, तुल्ययोगिता, दीपक, विभावना, विशेषोक्ति, विरोधाभास, परिसंख्या।

इकाई-5- निम्नलिखित छन्दों का लक्षण एवम् उदाहरणसहित परिचय- 10

अनुष्टुप्, इन्द्रवज्रा, उपेन्द्रवज्रा, उपजाति, द्रुतविलम्बित, वंशस्थ, वसन्ततिलका, मालिनी, शिखरिणी, मन्दाकान्ता, शार्दूलविकीर्णित, आर्या।

द्वितीय-प्रश्नपत्र

किरातार्जुनीयम् (प्रथमसर्ग)

पूर्णाङ्क-75

इकाई-1- हिन्दी अनुवाद

$$8 \times 2 = 16$$

इकाई-2 (क) संस्कृत-व्याख्या

$$8 \times 1 = 08$$

(ख) समालोचनात्मक प्रश्न

$$= 06$$

नीतिशतकम् (श्लोक संख्या 1 से 30 तक)

इकाई-3- हिन्दी अनुवाद

$$10 \times 1 = 10$$

संस्कृत-व्याख्या

$$10 \times 1 = 10$$

लघुसिद्धान्तकौमुदी (संज्ञा-प्रकरण)

इकाई-4 - प्रत्याहार, उच्चारण एवं प्रयत्नज्ञान, सूत्रों की व्याख्या पर विशेष बल। = 15

इकाई-5- हिन्दी से संस्कृत में अनुवाद

$$= 10$$

संस्कृत-बी0ए0 –द्वितीयवर्ष

प्रथम-प्रश्नपत्र

पूर्णाङ्क-75

कादम्बरी कथामुखम् (केवल गद्यभाग-प्रभातवर्णन पर्यन्त)

इकाई-1- गद्यांशों का हिन्दी अनुवाद

8 × 2 = 16

इकाई-2-(क) संस्कृत व्याख्या

8 × 1 = 08

(ख) समास (पाठ्यग्रन्थ से)

2 × 2 = 04

इकाई- 3- कादम्बरी से सम्बन्धित समालोचनात्मक प्रश्न।

7 × 1 = 07

इकाई- 4- मेघदूतम् – पूर्वमेघ (श्लोक संख्या 1 से 30 तक)

(क) हिन्दी अनुवाद

8 × 1 = 08

(ख) संस्कृत-व्याख्या

7 × 1 = 07

इकाई 5 – (क) वैदिक वाङ्मय का संक्षिप्त परिचय (प्रश्न एवं टिप्पणियाँ)

– 10

(ख) लौकिक संस्कृत साहित्य का इतिहास (बीसवीं सदी पर्यन्त) –

महाकाव्य, खण्डकाव्य, गद्यकाव्य, चम्पू, नाटक, जन्तुकथा आलोचनात्मक प्रश्न एवं टिप्पणियाँ।

15

द्वितीय-प्रश्नपत्र

पूर्णाङ्क - 75

इकाई एक, दो एवं तीन

= 30

वैदिकसूक्त -

विश्वेदेवासूक्त, (ऋ01.89), विष्णुसूक्त (ऋ01.54), इन्द्रसूक्त (ऋ02.12), प्रजापति सूक्त (ऋ0 10.121) पुरुषसूक्त (ऋ010.90), वाक्सूक्त (ऋ0 10.125) एवं शिवसंकल्पसूक्त (शुक्लयजुर्वेद अध्याय 34, कण्डिका 1-6)-

हिन्दी-अनुवाद, सूक्त सारांश एवं व्याकरणात्मक टिप्पणियाँ।

इकाई4- कठोपनिषद् (प्रथम अध्याय)

हिन्दी-व्याख्या, आलोचनात्मक प्रश्न/पारिभाषिक शब्दों पर टिप्पणियाँ।

20

इकाई 5 - लघुसिद्धान्तकौमुदी - (सन्धिप्रकरण)

1-सूत्रों की व्याख्या

5 × 2 = 10

2-सन्धि के उदाहरणों की साधनिका

5 × 3 = 15

संस्कृत-बी0 ए0 तृतीयवर्ष

प्रथम-प्रश्नपत्र

पूर्णाङ्क - 75

इकाई 1 एवं 2 -

साहित्यदर्पण (प्रारम्भ से तृतीय परिच्छेद की 28 वीं कारिका तक) 25

इकाई 3-

उत्तररामचरितम् (तृतीय अंक पर्यन्त)

हिन्दी अनुवाद, संस्कृतव्याख्या एवं समालोचनात्मक प्रश्न। 25

इकाई 4 -

नाट्यशास्त्रीय पारिभाषिक शब्दों पर टिप्पणियाँ (केवल अर्थप्रकृतियाँ कार्यावस्थाएँ एवं सन्धियाँ)
15

इकाई 5- संस्कृत में निबन्धलेखन। 10

द्वितीय-प्रश्नपत्र

पूर्णाङ्क - 75

इकाई 1 एवं 2 - तर्कसंग्रह 25

इकाई 3 एवं 4 - श्रीमद्भगवद्गीता (अध्याय 2 एवं 3) 25

इकाई 5 - ईषावास्योपनिषद् 25

तृतीय-पुस्तक

पूर्णाङ्क - 75

इकाई 1 एवं 2 -

लघुसिद्धान्तकौमुदी -समास प्रकरण। 30

इकाई -3 -

मध्यसिद्धान्तकौमुदी (कारक प्रकरण) 20

इकाई -4

(क) वाच्यपरिवर्तन 05

(ख) सन्, क्यच्, णिच्, क्यङ्, क्यप्, क्विप् प्रत्ययों का व्यावहारिक ज्ञान। 10

इकाई 5 -

हिन्दी से संस्कृत में अनुवाद 10

Name of the programme- M.A. in Sanskrit
Semester-1

Course Code SAN-501

Core Course

Title of Course -Hymns of Rigveda

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term Exam.=20

Marks for End Sem. Exam-60

Unit- I	सवितृसूक्त 1/35, मरुत सूक्त 1/85,	12 अंक
Unit-II	रुद्र सूक्त 2/33, मित्र सूक्त 3/59, उषस् सूक्त 4/51,	12 अंक
Unit-III	मित्रावरुणौ सूक्त 7/61, अश्विनौ 7/71, वरुण सूक्त 7/86	12 अंक
Unit-IV	अक्ष सूक्त 10/34, सृष्टि सूक्त 10/129	12 अंक
Unit-V	पदपाठ, स्वरांकन एवं व्याकरणात्मक टिप्पणियाँ	12 अंक

Name of the programme- M.A. in Sanskrit

Semester-1

Course Code- SAN-502

Core Course

Title of Course -पालि प्राकृत एवं अपभ्रंश

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term Exam.= 20

Marks for End Sem. Exam- 60

पलि-प्राकृत अपभ्रंश संग्रह पुस्तक के निम्नलिखित अंश-

3

इकाई -1- मायादेविया सुपिनम्, गोतमस्स उप्पादो, महाभिनिक्खमनम्, बावेरुजातकम्,

जवसकुणजातकम् ससजातकम्, निग्गोध मिगंजातकम् -पालि

12 अंक

इकाई-2- धम्मपदसंगहो, धनियसुत्तं, महापजापतिगोतमीगाथा, मालुक्यपुत्तगाथा, आशोकाभिलेख,
पटिच्चसमुत्पादो,अनत्तवादो - पालि

12 अंक

इकाई-3- गाहासतसई, स्वप्नवासवदत्तम्, कर्पूरमंजरी की प्राकृतें।

12 अंक

इकाई-4- मृच्छकटिकम्, वसुदत्तकथा की प्राकृते।

12 अंक

इकाई -5- अपभ्रंश मुक्तक संग्रह तथा भाषा वैज्ञानिक टिप्पणी।

12 अंक

Name of the programme- M.A. in Sanskrit
Semester-1

Course Code- SAN-503

Core Course

Title of Course – भारतीय दर्शन – न्याय एवं वेदान्त

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term Exam.=20

Marks for End Sem. Exam-60

तर्कभाषा- प्रारम्भ से प्रत्यक्ष प्रमाणपर्यन्त

इकाई -1- कारण लक्षण पर्यन्त

12 अंक

इकाई -2- प्रमाण लक्षण, प्रत्यक्ष प्रमाण

12 अंक

वेदान्तसार-

इकाई -3- खण्ड सं० 1 से 10 तक

12 अंक

इकाई -4- खण्ड सं० 11 से 35 तक

12 अंक

इकाई -5- खण्ड सं० 36 से 59 पर्यन्त

12 अंक

Name of the programme- M.A. in Sanskrit
Semester-1

Course Code- SAN-504

Core Course

Title of Course – संस्कृत व्याकरण

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term Exam.=20

Marks for End Sem. Exam-60

4



लघुसिद्धान्त कौमुदी के अधोलिखित प्रकरण

इकाई -1- अजन्त पुंलिंग-राम, सर्व, विश्वपा, हरि, सखि, पति शब्दों की साधनिका प्रक्रिया 12 अंक

इकाई -2- अजन्त स्त्रीलिंग रमा, मति, गौरी, श्री एवं नपुंसक लिंग ज्ञान, वारि, दधि शब्दों
की साधनिका प्रक्रिया 12 अंक

इकाई -3 - विश्ववाह, इदम्, राजन्, मघवन्, त्रि, चतुर् शब्दों की साधनिका प्रक्रिया 12 अंक

इकाई -4- भू धातु - लट्, लृट्, लकारों में रूप सिद्धि प्रक्रिया 12 अंक

इकाई -5- एध् धातु- लट्, लृट् लकारों में रूप सिद्धि प्रक्रिया 12 अंक

Name of the programme- M.A. in Sanskrit

Semester-1

Course Code- SAN-505

Core Course

Title of Course - संस्कृत काव्यशास्त्र

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term Exam.=20

Marks for End Sem. Exam-60

1- काव्य प्रकाश

इकाई 1- प्रथम, द्वितीय उल्लास 12 अंक

इकाई 2- तृतीय, चतुर्थ उल्लास 12 अंक

इकाई 3- नवम उल्लास 12 अंक

इकाई 4- काव्य प्रकाश - दशम उल्लास 12 अंक

उपमालङ्कार से अतिशयोक्ति पर्यन्त

इकाई 5- काव्यप्रकाश - दशम उल्लास

प्रतिवस्तूपमालङ्कार से पर्यायोक्त पर्यन्त 12 अंक

Name of the programme- M.A. in Sanskrit

Semester-2
Course Code -SAN-506

Core Course

Title of Course – निर्वचन एवं ऋग्वेद भाष्य भूमिका

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term Exam.=20

Marks for End Sem. Exam-60

निरुक्त प्रथम अध्याय एवं ऋग्वेद भाष्य भूमिका

Unit-I	निरुक्त प्रथम अध्याय– प्रथम पाद	12 अंक
Unit-I	निरुक्त प्रथम अध्याय– द्वितीय पाद	12 अंक
Unit-III	निरुक्त प्रथम अध्याय– तृतीय तथा चतुर्थ पाद	12 अंक
Unit-IV	निरुक्त प्रथम अध्याय– पंचम तथा षष्ठ पाद	12 अंक
Unit-V	ऋग्वेद भाष्य भूमिका	12 अंक

Name of the programme- M.A. in Sanskrit
Semester-2

Course Code- SAN-507

Core Course

Title of Course – भाषा विज्ञान

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term Exam.=20

Marks for End Sem. Exam-60

6

Course–भाषा विज्ञान

इकाई – एक

भाषा का स्वरूप एवं प्रकृति, भाषा विज्ञान की परिभाषा, उपयोगिता एवं उसके विवेच्य विषय

प्राचीन भारत में भाषा वैज्ञानिक कार्य , संस्कृत ध्वनियों का स्वरूप– स्थान एवं प्रयत्न 12 अंक

इकाई – दो

अर्थ विज्ञान– अर्थ परिवर्तन के कारण एवं दिशाएँ, भाषिक वर्गीकरण– अकृतिमूलक एवं

पारिवारिक वर्गीकरण की सामान्य रूपरेखा 12 अंक

इकाई – तीन – भारोपीय भाषा परिवार की भाषायें और उनकी विशेषतायें, लौकिक, वैदिक,

अवेस्ता भाषाओं की विशेषतायें तथा परस्पर तुलना 12 अंक

इकाई– चार

ध्वनि विज्ञान– ध्वनि परिवर्तन के कारण एवं दिशायें, ध्वनि नियम– ग्रिम, ग्रासमान एवं वर्नर वर्गीकरण– सतम् एवं केन्तुम्, भारत ईरानी भाषा परिवार– मुख्यतः संस्कृत एवं अवेस्ता भाषाओं की विशेषतायें 12 अंक

इकाई– पाँच

संस्कृत का कर्मिक विकास– प्राचीन भारतीय (वैदिक लौकिक) आर्य भाषा तथा मध्यकालीन भारतीय आर्यभाषा (पालि प्राकृत एवं अपभ्रंश) का सामान्य परिचय 12 अंक

Name of the programme- M.A. in Sanskrit

Semester-2

Course Code -SAN-508

Core Course

Title of Course – भारतीय दर्शन – न्याय एवं सांख्य

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term Exam.=20

Marks for End Sem. Exam-60

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तर्कभाषा– अनुमान प्रमाण से प्रमाण निरूपणान्त

इकाई – एक– अनुमान प्रमाण, हेत्वाभास 12 अंक

इकाई – दो– उपमान , शब्द प्रमाण का निरूपण एवं अन्य प्रमाणों का खण्डन 12 अंक

सांख्य तत्त्वकौमुदी

इकाई – तीन– कारिका 1 से 10 तक 12 अंक

इकाई – चार– कारिका 11से 20 तक 12 अंक

इकाई– पाँच–

कारिका 21से 30 तक 12 अंक

Name of the programme- M.A. in Sanskrit

5



Semester-2
Course Code- SAN-509
Core Course
Title of Course – संस्कृत व्याकरण
Number of credit-4
Pds. allotted to the course per week-4
Marks for T1/T2=20
Marks for Med Term Exam.=20
Marks for End Sem. Exam-60

लघुसिद्धान्त कौमुदी के निम्नांकित प्रकरण

इकाई – एक– पूर्व कृदन्त	12 अंक
इकाई – दो– उत्तर कृदन्त	12 अंक
इकाई – तीन– तद्धित प्रत्यय– शैषिक प्रकरण पर्यन्त	12 अंक
इकाई – चार– महाभाष्य पस्पशाह्निक प्रयोजन निरूपण पर्यन्त	12 अंक
इकाई– पाँच– महाभाष्य – पस्पशाह्निक का शेष भाग	12 अंक

Name of the programme- M.A. in Sanskrit
Semester-2
Course Code-SAN-510
Core Course
Title of Course – काव्य शास्त्र एव प्रकरण
Number of credit-4
Pds. allotted to the course per week-4
Marks for T1/T2=20
Marks for Med Term Exam.=20
Marks for End Sem. Exam-60

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ध्वन्यालोक

इकाई – एक– प्रथम उद्योत कारिका 13 तक	12 अंक
इकाई – दो – प्रथम उद्योत कारिका 14 से समाप्ति तक	12 अंक
इकाई – तीन – चतुर्थ उद्योत	12 अंक
इकाई – चार– मृच्छकटिकम् अंक 1 से 4 तक	12 अंक
इकाई– पाँच– मृच्छकटिकम् अंक 5 से 10 तक	12 अंक

6



Name of the programme- M.A. in Sanskrit
Semester-3
Course Code SAN-551
Elective Course (Group A - Veda)
Title of Course – ऋग्वेद द्वितीय मण्डल – के चयनित सूक्त
1st Paper
Number of credit-4
Pds. allotted to the course per week-4
Marks for T1/T2=20
Marks for Med Term Exam.=20
Marks for End Sem. Exam-60

ऋग्वेद द्वितीय मण्डल के चयनित सूक्त

इकाई –1	सूक्त संख्या 1, 2, 3, 4, 5	12 अंक
इकाई–2	सूक्त संख्या 6, 7, 8, 9, 10, 11	12 अंक
इकाई–3	सूक्त संख्या 12,23, 33, 35, 38	12 अंक
इकाई–4	व्याकरणात्मक टिप्पणी	12 अंक
इकाई–5	वैदिक स्वरांकन एवं पदपाठ	12 अंक

Name of the programme- M.A. in Sanskrit
Semester-3
Course Code- SAN-552
Elective Course (Group A)

9

Title of Course – (i) शुक्ल यजुर्वेद (माध्यन्दिन संहिता,
(ii) वाजसनेयि प्रातिशाख्य (अध्याय 1 से 3तक)
Number of credit-4
Pds. allotted to the course per week-4
Marks for T1/T2=20
Marks for Med Term Exam.=20
Marks for End Sem. Exam-60

शुक्ल यजुर्वेद (माध्यन्दिन संहिता,)

इकाई –1	शुक्ल यजुर्वेद संहिता – प्रथम अध्याय	12 अंक
इकाई–2	शुक्ल यजुर्वेद संहिता – द्वितीय अध्याय	12 अंक
वाजसनेयि प्रातिशाख्य (अध्याय 1 से 3तक)		

इकाई-3	वाजसनेयि प्रातिशाख्य – प्रथम अध्याय	12 अंक
इकाई-4	वाजसनेयि प्रातिशाख्य द्वितीय अध्याय	12 अंक
इकाई-5	वाजसनेयि प्रातिशाख्य तृतीय अध्याय	12 अंक

Name of the programme- M.A. in Sanskrit

Semester-3

Course Code SAN-553

Elective Course (Group A)

Title of Course –प्रातिशाख्य

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term Exam.=20

Marks for End Sem. Exam-60

इकाई 1-	ऋग्वेद प्रातिशाख्य प्रथम पटल	12 अंक
इकाई 2-	ऋग्वेद प्रातिशाख्य द्वितीय पटल	12 अंक
इकाई 3-	ऋग्वेद प्रातिशाख्य तृतीय पटल	12 अंक
इकाई -4	ऋग्वेद प्रातिशाख्य षष्ठ पटल	12 अंक
इकाई -5	समीक्षात्मक प्रश्न	12 अंक

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Name of the programme- M.A. in Sanskrit

Semester-3

Course Code SAN-554

Elective Course (Group- B)

Title of Course – काव्य शास्त्र

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term Exam.=20

Marks for End Sem. Exam-60

काव्यप्रकाश के निम्नलिखित उल्लास-

इकाई 1-	पंचम उल्लास	12 अंक
इकाई 2-	षष्ठ उल्लास	12 अंक

इकाई 3-	सप्तम उल्लास	12 अंक
इकाई 4-	अष्टम उल्लास	12 अंक
इकाई 5-	काव्यमीमांसा प्रथम परिच्छेद	12 अंक

Name of the programme- M.A. in Sanskrit
Semester-3
Course Code SAN-555
Elective Course (Group- B-Litreture)
Title of Course – नाट्यशास्त्र
Number of credit-4
Pds. allotted to the course per week-4
Marks for T1/T2=20
Marks for Med Term Exam.=20
Marks for End Sem. Exam-60

दशरूपक के निम्नांकित अंश

इकाई 1- प्रथम प्रकाश	12 अंक
इकाई 2- द्वितीय प्रकाश	12 अंक
इकाई 3- तृतीय प्रकाश	12 अंक
इकाई 4- चतुर्थ प्रकाश	12 अंक
इकाई 5- समीक्षात्मक प्रश्न	12 अंक

Name of the programme- M.A. in Sanskrit
Semester-3
Course Code- SAN-556
Paper III
Elective Course (Group- B- Literture)
Title of Course – महाकाव्य
Number of credit-4
Pds. allotted to the course per week-4
Marks for T1/T2=20
Marks for Med Term Exam.=20
Marks for End Sem. Exam-60



नैषधीयचरितम् प्रथम सर्ग

इकाई 1- 1 से 50 श्लोक तक

12 अंक

(हिन्दी अनुवाद संस्कृत व्याख्या)

इकाई 2-

12 अंक

(हिन्दी अनुवाद 51 से सर्गान्त तक)

इकाई 3-

आलोचनात्मक प्रश्न

12 अंक

षिषुपालवधम् प्रथम सर्ग

इकाई 4- प्रथम सर्ग (हिन्दी अनुवाद एवं संस्कृत व्याकरण)

12 अंक

इकाई 5- आलोचनात्मक प्रश्न

12 अंक

Name of the programme- M.A. in Sanskrit
Semester-3

Course Code -SAN-557

Elective Course (Group- D- Philosophy)

Title of Course – न्याय दर्शन

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term Exam.=20

Marks for End Sem. Exam-60

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न्याय सूत्र वात्स्यायनभाष्य सहित- प्रथम अध्याय

इकाई 1- प्रथमाह्निक सूत्र 1 से 9 तक

12 अंक

इकाई 2- प्रथमाह्निक सूत्र 10 से 30 तक

12 अंक

इकाई 3- प्रथमाह्निक सूत्र 31 से 41 तक

12 अंक

इकाई 4- आह्निक-2 सूत्र 1 से 9 तक

12 अंक

इकाई 5- आह्निक-2 सूत्र 10 से पादान्त तक

12 अंक

Name of the programme- M.A. in Sanskrit
Semester-3
Course Code SAN-558
Elective Course (Group- D- Philosophy)
Title of Course – योग दर्शन
Number of credit-4
Pds. allotted to the course per week-4
Marks for T1/T2=20
Marks for Med Term Exam.=20
Marks for End Sem. Exam-60

योगसूत्र- व्यास भाष्य सहित

इकाई 1- समाधिपाद सूत्र 1 से 16 तक	12 अंक
इकाई 2- समाधिपाद सूत्र 17 से 29 तक	12 अंक
इकाई 3- समाधिपाद सूत्र 30 से 40 तक	12 अंक
इकाई 4- समाधिपाद सूत्र 41 से 51 तक	12 अंक
इकाई 5- साधनपाद सूत्र 01से 11 तक	12 अंक

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Name of the programme- M.A. in Sanskrit
Semester-3
Course Code SAN-559
Elective Course (Group-D- Philosophy)
Title of Course – शांकर दर्शन
Number of credit-4
Pds. allotted to the course per week-4
Marks for T1/T2=20
Marks for Med Term Exam.=20
Marks for End Sem. Exam-60

ब्रह्मसूत्र शांकर भाष्य

इकाई 1- अध्यासभाष्य एव सूत्र स0 1.1.1 एवं स0 1.1.2	12 अंक
इकाई 2- सूत्र स0 1.1.3 एवं 1.1.4 तक	12 अंक
इकाई 3 - सूत्र स0 1.1.5 से 1.1.11 तक	12 अंक
इकाई 4 - पंचदशी प्रकरण 1 एवं 2	12 अंक
इकाई 5- पंचदशी प्रकरण 3 से 5 तक	12 अंक

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Name of the programme- M.A. in Sanskrit
Semester-3

Course Code- SAN-511

Core Course

Title of Course – अनुवाद एवं मीमांसा शास्त्र

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term Exam.=20

Marks for End Sem. Exam-60

सभी छात्रों के लिये अनिवार्य

अनुवाद (हिन्दी से संस्कृत)

इकाई 1- कारकाश्रित अनुवाद 15 अंक

इकाई 2- निबन्धात्मक अनुवाद 15 अंक

अर्थसंग्रह

इकाई 3- भावना निरूपण 10 अंक

इकाई 4- विधिनिरूपण 10 अंक

इकाई 5- मंत्र, निषेध, अर्थवाद, नामधेय निरूपण 10 अंक

Name of the programme- M.A. in Sanskrit

Semester-3

Course Code SAN-512

Core Course

एम0 ए0 सेमेस्टर –3

Title of Course –शिलालेख, भारतीयसंस्कृति तथा दर्शन

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term Exam.=20

Marks for End Sem. Exam-60

सभी छात्रों के लिये अनिवार्य

इकाई 1- शिलालेख- निम्नलिखित शिलालेखों पर आधारित प्रश्न 12 अंक

(i)समुद्रगुप्त का प्रयाग प्रशस्ति स्तम्भ लेख(ii) नृपचन्द्र का मेहरौली स्तम्भ लेख(iii) कुमार गुप्त का मन्दसौर अभिलेख (iv)स्कन्द गुप्त का जूनागढ़ अभिलेख(v) पुलकेशिन् द्वितीय की ऐहोल प्रशस्ति

इकाई 2- प्राचीन भारतीय संस्कृति- शिक्षा, कला, राज्य का स्वरूप, स्त्रियों की दशा, धार्मिक आन्दोलन	12 अंक
इकाई 3- भारतीय दर्शन की विशेषतायें, उपनिषदों में दार्शनिक प्रवृत्तियों,	12 अंक
इकाई 4- बौद्ध दर्शन का सामान्य परिचय प्रमुख सम्प्रदाय तथा उनके सिद्धान्त	12 अंक
इकाई 5- जैन दर्शन का सामान्य परिचय (प्रमुख सिद्धान्त), चार्वाक दर्शन	12 अंक

Name of the programme- M.A. in Sanskrit
Semester-4
Course Code SAN-560
Elective Course (Group A -Ved)
Title of Course -स्वर वैदिकी
Number of credit-4
Pds. allotted to the course per week-4
Marks for T1/T2=20
Marks for Med Term Exam.=20
Marks for End Sem. Exam-60

वैदिक स्वरप्रक्रिया (सिद्धान्त कौमुदी)

इकाई -1	धातुस्वर (स्वर प्रकरण)	12 अंक
इकाई-2	फिट् सूत्र :	12 अंक
इकाई-3	समासस्वर,	12 अंक
इकाई-4	तिडन्त स्वर	12 अंक
इकाई-5	लेट् लकार, लुङ् लकार, लिट् लकार से सम्बन्धित नियमों का अध्ययन	12 अंक

Name of the programme- M.A. in Sanskrit
Semester-4
Course Code SAN-561
Elective Course (Group A- Ved)
Title of Course -शतपथ ब्राह्मण
Number of credit-4
Pds. allotted to the course per week-4
Marks for T1/T2=20
Marks for Med Term Exam.=20
Marks for End Sem. Exam-60

शतपथ ब्राह्मण (प्रथम काण्ड)

इकाई -1	शतपथ ब्राह्मण –व्रतोपायनम्, अपां प्रणयनम्, पात्रासादनम्, हविर्निर्वापः, अवघातः	12 अंक
इकाई -2	शतपथ ब्राह्मण – उत्पवनम्,पेषणम्,कपालोपधानम् ,आज्यनिर्वापः, संयवनम्	12 अंक
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इकाई -3	अपां निनयनम्, वेदि निर्माणम् ,पटनीसन्नहम् ,आज्यावेक्षणम् , सुक् सम्मार्जनम्	12 अंक
इकाई -4	शतपथ ब्राह्मण में प्रतिपादित कथायें	12 अंक
इकाई -5	शतपथ ब्राह्मण में प्रतिपादित यज्ञ प्रक्रिया एवं इष्टियों	12 अंक

Name of the programme- M.A. in Sanskrit
Semester-4
Course Code SAN-562

Elective Course (Group A- Ved)

Title of Course – अवेस्ता, प्राचीन फारसी शिलालेख तथा निरुक्त
Number of credit-4
Pds. allotted to the course per week-4
Marks for T1/T2=20
Marks for Med Term Exam.=20
Marks for End Sem. Exam-60

इकाई -1	बहिस्तुन् शिलालेख प्रथम प्रकोष्ठ	12 अंक
इकाई -2	अवेस्ता हओम यस्त 1 से 16 पर्यप्त	12 अंक
इकाई -3	अवेस्ता हओम यस्त 17 से 32 पर्यप्त	12 अंक
इकाई -4	निरुक्त द्वितीय अध्याय	12 अंक
इकाई -5	निरुक्त सप्तम अध्याय	12 अंक

Name of the programme- M.A. in Sanskrit
Semester-4

Course Code SAN-563

1st Paper

Elective Course (Group- B- Litature)

Title of Course – उपन्यास एवं पद्यरचना
Number of credit-4
Pds. allotted to the course per week-4

Marks for T1/T2=20
Marks for Med Term Exam.=20
Marks for End Sem. Exam-60

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इकाई- 1 - शिवराजविजयम् प्रथमनिःश्वास - (हिन्दी अनुवाद)	12 अंक
इकाई- 2- शिवराजविजयम् प्रथमनिःश्वास - (आलोचनात्मक प्रश्न)	12 अंक
इकाई- 3 - हर्षचरितम्, पञ्चम-उच्छ्वास (हिन्दी अनुवाद)	12 अंक
इकाई 4- वृत्तरत्नाकर तृतीय अध्याय	12 अंक
इकाई -5- संस्कृत पद्यरचना	12 अंक

Name of the programme- M.A. in Sanskrit
Semester-4

Course Code SAN-564

Elective Course (Group- B- Litature)

Title of Course - रसगंगाधर एवं रत्नावली

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term Exam.=20

Marks for End Sem. Exam-60

रसगंगाधर रस प्रकरण पर्यन्त

इकाई 1- प्रारम्भ से ध्वनि भेद तक	12 अंक
इकाई 2- रस प्रकरण समाप्ति पर्यन्त	12 अंक

रत्नावली

इकाई 3- अंक 1 एवं 2	12 अंक
इकाई 4-अंक 3 एवं 4	12 अंक
इकाई -5 समीक्षात्मक प्रश्न	12 अंक

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Name of the programme- M.A. in Sanskrit
Semester-4

Course Code SAN-563

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Elective Course (Group- B- Litratue)

Title of Course – चम्पू एवं गद्यकाव्य

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term Exam.=20

Marks for End Sem. Exam-60

नलचम्पू

इकाई 1— श्लोक सं० 15 तक	12 अंक.
इकाई 2— श्लोक सं० 16 से 35 तक	12 अंक
इकाई 3— श्लोक सं० 36 से 50 तक	12 अंक
इकाई 4— श्लोक सं० 51 से 64 तक	12 अंक

शुकनासोपदेश

इकाई 5— कादम्बरी— शुकनासोपदेश	12 अंक
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Name of the programme- M.A. in Sanskrit

Semester-4

Course Code SAN-566

Elective Course (Group- C- Philosophy)

Title of Course – न्याय वैशेषिक दर्शन

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term=20

Marks for End Sem. Exam-60

न्यायसिद्धान्तमुक्तावली – प्रत्यक्षःखण्ड

इकाई 1— पदार्थ निरूपण	12 अंक
इकाई 2— कारण एवं अन्यथा सिद्ध	12 अंक
इकाई 3— प्रत्यक्ष प्रमाण लौकिक सन्निकर्ष,	12 अंक
इकाई 4— प्रत्यक्ष प्रमाण अलौकिक सन्निकर्ष	12 अंक

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प्रशस्तपादभाष्य—

इकाई 5— सामान्य, विशेष, समवाय, निरूपण

12 अंक

Name of the programme- M.A. in Sanskrit
Semester-4
Course Code SAN-567
Elective Course (Group- C- Philosophy)
Title of Course – प्राक्शांकर वेदान्त तथा योगदर्शन
Number of credit-4
Pds. allotted to the course per week-4
Marks for T1/T2=20
Marks for Med Term=20
Marks for End Sem. Exam-60

योगसूत्र – व्यास भाष्य सहित

इकाई— 1 – साधन पाद, सूत्र सं० 12 से 28 तक

12 अंक

इकाई— 2 – साधन पाद, सूत्र सं० 29 से 55 तक

12 अंक

विभूति पाद, 1-04

माण्डूक्योपनिषद्, माण्डूक्यकारिकोपेत

इकाई 3— उपनिषद् भाग

12 अंक

इकाई 4— कारिका भाग अध्याय 1 एवं 2

12 अंक

इकाई –5 कारिका भाग अध्याय 3 एवं 4

12 अंक

Name of the programme- M.A. in Sanskrit
Semester-4
Course Code SAN-568
Elective Course (Group- C- Philosophy)
Title of Course –शाङ्कर वेदान्त
Number of credit-4
Pds. allotted to the course per week-4
Marks for T1/T2=20
Marks for Med Term=20
Marks for End Sem. Exam-60

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ब्रह्मसूत्रशांकरभाष्य

इकाई— 1 आनन्दमयाधिकरण

12 अंक

इकाई- 2	द्वितीय अध्याय प्रथम पाद	12 अंक
	1- स्मृत्यधिकरण	2- विलक्षणत्वाधिकरण
	3- नप्रयोजनत्वाधिकरण	
इकाई-3	1- वैषम्यनैर्घृण्याधिकरण	12 अंक
	2- अभावाधिकरण	
	3- एकस्मिन्नसंभवाधिकरण	
इकाई- 4	1-पत्यधिकरण	12 अंक
	2- उत्पत्त्यसंभवाधिकरण	
इकाई- 5	चतुर्थ अध्याय का चतुर्थ पाद	12 अंक

Name of the programme- M.A. in Sanskrit

Semester-4

Course Code SAN-513

Core Course

एम0 ए0 सेमेस्टर -4

Title of Course – निबन्ध, शब्द दर्शन

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term=20

Marks for End Sem. Exam-60

सभी छात्रों के लिये अनिवार्य

संस्कृत निबन्ध

इकाई -1	शास्त्रीय निबन्ध	15 अंक
इकाई- 2	समस्यामूलक निबन्ध	15 अंक
इकाई- 3	न्याय सिद्धान्त मुक्तावली शब्दखण्ड कारिका 81	10 अंक
इकाई -4	न्याय सिद्धान्त मुक्तावली शब्दखण्ड कारिका 82 लक्षणानिरूपण	10 अंक
इकाई -5	न्याय सिद्धान्त मुक्तावली शब्दखण्ड कारिका 83 ,84 आसत्ति, योग्यता, आकांक्षा	10 अंक

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Name of the programme- M.A. in Sanskrit

Semester-4

Course Code SAN-514

(18)



Core Course

Title of Course – कवि एवं काव्य शास्त्र, शङ्करोत्तर वेदान्त

Number of credit-4

Pds. allotted to the course per week-4

Marks for T1/T2=20

Marks for Med Term=20

Marks for End Sem. Exam-60

सभी छात्रों के लिये अनिवार्य

इकाई –1	कवियों का अध्ययन– भास,कालिदास, अश्वघोष, भवभूति, सुबन्धु	12 अंक
इकाई– 2	काव्य शास्त्रीय प्रवृत्तियों– रस, शीति,अलंकार,वक्रोक्ति, ध्वनि एवं औचित्य सम्प्रदायों का सैद्धान्तिक परिचय	12 अंक
इकाई –3	योगदर्शन, अष्टांगयोग, ईश्वर	12 अंक
इकाई– 4	शङ्करोत्तर वेदान्त विशिष्टाद्वैत	12 अंक
इकाई –5	शङ्करोत्तर वेदान्त अन्य वेदान्त सम्प्रदाय	12 अंक

INDIAN SOCIETY: CONTINUITIES AND CHANGES

Course Code: SOC -504

Type: Core Course

Semester: Autumn

L-T-P-C (4-1-0-5)

Objectives of the Course:

The course aims to provide fairly adequate and comprehensive understanding of Indian society in its multi-faceted dimensions. This course is aimed at sensitizing the students to the diversity as well as interconnectedness of sociological perspectives on Indian Society and its debates and dynamics in contemporary India.

UNIT I Idea of India:

Distinctive characteristic of Indian society; Conceptualizing caste and approaches to its study; Unity in diversity (Regional, Linguistic and Religious Diversities)

UNIT II Contemporary Debates on Indian Society; with special reference to Tribe, Village and City.

UNIT III Traditional Social Institutions in Modern Settings

- Changing Marriage, Family and Kinship system

UNIT IV Modernization and Changing Social Structure

- Interplay between Tradition and Modernity
- Adaptation of Caste in Modernizing Society
- Changing Women in Indian Society

UNIT V Economic and Political Processes in Indian Society

- Issues of Poverty; Human Development Concern;
- Political Institution; Panchayat Raj Institutions
- Ethnicity and Nation-Building

- Garfinkel, Harold. 1984. *Studies in Ethno-methodology* Oxford, Blackwell
- Gramsci, Antonio 1971. *Selections from the Prison Notebooks* International Publishers CO.
- Merton, R.K. 1968. *Social Theory and Social Structure*. New York: Free Press
- Mead, G.H. 1962. *Mind, Self and Society*. Chicago: Chicago University Press.
- Parsons, T. 1951. *The Social System*. New York: Free Press.
- Schutz, A. 1967. *The Phenomenology of the Social World*, Evanston: Northwestern University Press.
- Sturrock, John ed. 1979. *Structuralism: From Levi Strauss to Derrida*. Oxford: Oxford University Press.
- Waters Malcom 2000. *Modern Sociological Theories* London: Sage Publications
- Zeitlin, I. M. 1998. *Rethinking Sociology: A Critique of Contemporary Theory*. Jaipur: Rawat.

Further Readings:

- Althusser, L 2009. *Reading Capital*, London: Verso
- Bottomore, Tom. 1984. *The Frankfurt School*. Chester, Sussex: Ellis Horwood and London: Tavistock Publications.
- Collins, R. 1994. *Four Sociological Traditions*, New York, Oxford University Press
- Ritzer, G. & Goodman. 2003. *Modern Sociological Theory*, New York: McGraw-Hill
- Ritzer, G. 1992. *Sociological Theory*, New York: McGraw-Hill
- Turner, Jonathan H. 1995. *The Structure of Sociological Theory*. Jaipur: Rawat.

DEVELOPMENT OF SOCIOLOGY IN INDIA

Course Code: SOC-506

Type: Core Course

Semester: Spring

L-T-P-C (4-1-0-5)

Objectives of the Course:

Building on the comprehension gained in the previous paper on changes and continuities in Indian society, this paper attempts to realize how sociologists have grappled with social developments in India and have tried to contribute sociological knowledge. This paper introduces various perspectives advanced by sociologists on Indian society and concludes by mapping the current debates in Indian Sociology.

UNIT- I Emergence of Indian Sociology

Social conditioning of Indian Sociology; Sociology in India and Sociology for India; Indigenization of Sociology

- UNIT II Perspectives on Indian Society-I**
Indological- G.S. Ghurye, Louis Dumont
Civilizational approach- N.K Bose
- UNIT III Perspectives on Indian Society-II**
Structural-functional- M.N Srinivas
Marxism- D.P. Mukherji, A.R. Desai
- UNIT IV Perspectives on Indian Society-III**
Value Theory- Radha kamal Mukherjee
Ecological Perspective- Ramchandra Guha
- UNIT V Contemporary Perspectives on Indian Society**
Subaltern perspective- B.R. Ambedkar, Ranajit Guha
Feminist Perspective- Sharmila Rege

Essential Readings:

- Atal, Yogesh. 2003. *Indian Sociology: From where to where*, Jaipur: Rawat Publication
- Bose, N.K. 1961. *Peasant Life in India: A Study in Indian Unity and Diversity*, Calcutta: Anthropological Survey of India
- Dass, V. 1977. *Structure and Cognition: Aspects of Hindu caste and rituals*, Delhi: OUP
- Dube, S.C. 1955. *Indian Village*, London: Routledge and Kegan Paul
- Ghurye, G.S 1969. *Caste and Race in India* Mumbai: Popular Prakashan
- Guha, R. 1989. *The Unquiet Woods: Ecological Change and Peasant Resistance in Himalayas*, New Delhi: Oxford University Press.
- Guha, Ranajit (eds.). 1982. *Subaltern Studies I: Writing on South Asian History and Society*, Delhi: OUP.
- Marriott, McKim, 1990. *India through Hindu Categories*, New Delhi: Sage Publications.
- Madan, T.N, 2011. *Sociological traditions: Methods and perspectives in the sociology of India*, New Delhi: Sage Publications.
- Mukherjee, Ramakrishna. 1979. *Sociology of Indian Society*, Bombay: Popular Prakashan.
- Mukherji, D.P. 1988. *Diversities*, Delhi: Manak Publication.
- Omvedt, Gail 2006. *Dalit Visions: The Anti-Caste Movement and the Construction of an Indian Identity* Orient Longman
- Oommen, T.K. 1972. *Charisma, Stability and Change: An analysis of Bhoodan, Gramdan movement in India*, New Delhi: Thompson Press.
- Oommen, T.K. and P.N. Mukherji (eds.) 1988. *Indian Sociology: Reflections and Introspections*, Bombay: Popular Prakashan.

Rege, Sharmila. 2003. *Sociology of Gender*, New Delhi: Sage Publications.
Srinivas, M. N 2003. *Religion and Society among the Coorgs of South India*, New Delhi: OUP

Further Readings:

- Baviskar, Amita. 2006. *In the Belly of the River: Tribal Conflicts over Development in the Narmada Valley*, New Delhi: Oxford University Press.
Cohen, Bernard. 1996. *Colonialism and its forms of knowledge*, Princeton: Princeton University Press
Hardiman, David 1987 *The Coming of Davi: Adivasi Assertion in Western India* New Delhi Oxford University Press
Karve, I. 2008. *Yuganta- The end of an epoch*, Hyderabad: Orient Longman.
Madan T.N 2000. *Pathways: Approaches to the Study of Society in India* Oxford University Press, Delhi.
Mazumdar, Vina 1985. *Emergence of women's question and role of women's studies*. New Delhi: Centre for Women's Development Studies,
Yogesh Atal (ed.) 2009. *Sociology and Social Anthropology in India*. ICSSR Survey of Advances in Research, New Delhi: Dorling Kindersley (India) Pvt. Ltd.

SOCIOLOGY OF DEVELOPMENT

Course Code: SOC-507
Type: Core Course
Semester: Spring
L-T-P-C (4-1-0-5)

Objectives of the Course:

The course offers a broad overview of the conceptualization of development and different perspectives that emerged in specific historical and political conditions. The debates on development will provide the better understanding of the recent issues in the area.

UNIT I Some Basic Concepts

Introduction to Sociology of Development; Growth, progress, modernization, development, developmentality, underdevelopment, human development, social development, sustainable development, happiness, captive mind

UNIT II Theories and Critiques of Development-I

Weber, Myrdal, Gausfield

UNIT III Theories and Critiques of Development-I

Frank, Samir Amin, Schumacher, Wallerstein

UNIT IV Development and Socio-economic Disparities

Development and Gender; Development and marginalized groups; development and new peasant movement

UNIT V Contemporary Concerns on Development

Food security; health care; Swadeshi movement; sustainable agriculture; alternative development; Post Development

Essential Readings:

- Alatas Syed Hussein 1974. *The Captive Mind and Creative Development*, International Social Science Journal, 26 (4).
- Alavi, Hamza and T Shanin Ed. 1984. *Introduction to the Sociology of Developing Societies*. London: Palgrave
- Amin, Samir. 1979. *Unequal Development*. New Delhi: OUP
- Deb Debal 2009. *Beyond Developmentality: Constructing Inclusive Freedom and Sustainability*, Earthscan Publications
- Escobar, A 1995. *Encountering Development: The Making and Unmaking of the Third World*. Princeton: Princeton University Press
- Frank, Andre Gunder 1971. *Capitalism and Underdevelopment in Latin America*, Penguin Books.
- Gusfield, Joseph R. 1967. 'Tradition and Modernity: Misplaced Polarities in the Study of Social Change' *American Journal of Sociology* Vol. 72. No.4 pp 351-362
- Haq, Mahbub Ul. 1991. *Reflections on Human Development*. New Delhi, OUP
- Myrdal, Gunnar. 1972. *Asian Drama: An Inquiry into the Poverty of Nations*. Pantheon
- Schumacher, E. F 1973. *Small is Beautiful! Economics as if People Mattered* Blond & Briggs
- Schuurman, Frans J. 2001. *Globalization and Development Studies*, New Delhi: Vistaar Publications
- Sen Amartya 1999. *Development as Freedom* New Delhi, OUP
- Wallerstein, Immanuel. 1974. *The Modern World System*. New York: OUP
- Webster, Andrew, 1984. *Introduction to the Sociology of Development*; London,
- Weber, Max 1958. *The Protestant Ethic and the Spirit of Capitalism* (T Parsons translated) Cloucester MA: Peter Smith

Further Reading

- Ashley, C and S Maxwell 2001. *Rethinking Rural Development*, Blackwell.
- Bardhan, P. 1984. *The Political Economy of Development in India*. Delhi: Oxford University Press.
- Blomstroms, M. and B. Hettne 1984. *Development Theory in Transition*, Zed.
- Colin Leys 1996. *The Rise and Fall of Development Theory*, Indiana University Press
- D. H. Meadows, D.L. Meadows 1972. *The Limits to Growth*. New York: Universe Books

- Gupta, Dipankar (ed.) 1992: *Social stratification*, New Delhi: OUP.
- Patnaik, U. 1987-1987. *Peasant Class Differentiation*, New Delhi: OUP.
- Stokes, Eric. 1978. *The Peasant and the Raj: Studies in Agrarian Society and Peasant Rebellion in Colonial India*. Cambridge: Cambridge University Press.
- Atal, Yogesh, 1971: *Local Communities and National Politics*, Delhi: National Publishing House
- Lewis, Oscar. 1958: *Village Life in Northern India: Studies in a Delhi Village*, Urbana: University of Illinois.
- Lieten, G.K. 1992: *Continuity and Change in Rural West Bengal*, New Delhi: Sage Publications.
- Majumdar, D.N. 1958: *Caste and Communication in an Indian Village*, Bombay: Asia Publishing House.
- Sen Amartya (1981), *Poverty and Famines*, Oxford University Press, New Delhi.
- Singla, Pamela. 2007. *Women's Participation in Panchayati Raj*, Jaipur :Rawat Publications
- Yogesh Atal (ed.) 2009. *Sociology and Social Anthropology in India*. ICSSR Survey of Advances in Research, New Delhi: Dorling Kindersley (India) Pvt. Ltd.
- Bina Agarwal (1994). *Field of one's own: Gender and Land Rights in South Asia*. Cambridge: Cambridge University Press.
- Dharma Kumar (1992). *Land and Caste in South India*. Delhi: Manohar.
- Sen A.K. (1981). *Poverty and Famines: An Essay on Entitlement and Deprivation*. OUP.

URBAN SOCIOLOGY

Course Code: SOC-552

Course Type: Elective Course

Semester: Spring

Course Mode: L-T-P-C: 4-1-0-5

Objectives of the Course:

The course offers a broad trajectory of the development of Urban Sociology as a discipline with the most recent discourses in the area. The paper also attempts to develop a critical outlook on the process of urbanization and its implication in developing countries in general and in India in particular.

UNIT I Introduction: The Field of Urban Sociology

Introduction to urban sociology; Origin and development of urban societies
Some Basic Concepts: urbanization, urbanism, Rural-Urban Continuum, conurbation, suburbanization, ghettoisation, urban ecology, Typology of urban centers, Town, Cities and Megacities

UNIT II Theories of Urban Sociology

Classical Theories of City: The City- Max Weber; Metropolis and mental life - George Simmel
The Chicago School and its critics: Theories of Robert Park, Burgess, Mc Kenzie and Louis Wirth

UNIT III The New Urban Sociology

Henri Lefebvre; David Harvey; Manuel Castells

UNIT IV Urban Social Structure and Urbanisation in Developing Countries

Cities in the Developing World; Urbanization and its consequences in south Asia and other developing countries; Urban inequalities: Caste, Class and Ethnic segregation of space

UNIT V Cities in India: Problems, Planning and Governance

Demographic, economic and ecological characteristics of cities in India

Urban poverty, ethnic conflicts, immigration, housing and slums crime, urban pollution and environmental concerns

Urban planning and Urban governance

Essential Readings:

- Castells Manuel and A. Sheridan, 1977. *The Urban Question*, London: Edward Arnold
- Davis, Kingsley ed. , 1973. *Cities: Their Origin, Growth and Human Impact*, W.H Freeman and CO. San Francisco
- Harvey, David , 1989. *The Urban Experience*, Baltimore: John Hopkins Press
- Max Weber et. al. 1966. *The City*, Free Press, New York, (Translation and edited by Don Martindale and Gertrud Neuwirth)
- Simmel, Georg, 1976. *The Metropolis and Mental Life: The Sociology of Georg Simmel*, New York: Free Press
- Smith Wallace F. 1975. *Urban Development- The Processes and Problems*, University of California Press
- Wirth, Louis 1991. *Urbanism a Way of Life* Irvington Publications
- Zukin, Sharon, 1995. *The Cultures of Cities*, London: Blackwell
- Patel, Sujata & Kushal Deb ed. 2006. *Urban Studies*, Delhi: Oxford University Press
- Varshney, Ashutosh 2002. *Ethnic conflicts and civic life: Hindus and Muslims in India*, New Delhi: Oxford University Press

Further Reading

- Ida Susser ed. 2002. *The Castells Reader on Cities and Social Theory*. Malden, MA: Blackwell Publishing Limited
- James L. Spates et al. 1982. *The Sociology of Cities*, New York: St' Martin's Press
- Lewis, Oscar 1998. "The culture of poverty". *Society* 35 (2): 7. January
- Park, Robert E et al. 1925. *The City*, University of Chicago Press.
- Sassen Saskia. 1991. *The Global City*, Princeton: Princeton University Press
- Patel, Sujata & Jim Masselos , 2005. *Bombay and Mumbai: The City in Transition* New Delhi: Oxford University Press
- Veena Das 2006. 'Urbanisation' chapter in *Handbook of Indian Sociology*, New Delhi: Oxford University Press
- Legates, Richard & F.Stout, 2007. *The City Reader*. New York: Routledge
- Wilson, William Julius. 1990. *The Truly Disadvantaged: The Inner City, the Underclass, and Public Policy*. Chicago, IL: University of Chicago Press

- Harrison, David 1988. *The Sociology of Modernization and Development*, London: Routledge
- Illich, Ivan 1974. *Medical Nemesis*. London: Calder & Boyars
- Rahnema Majid 1997. *The Post Development Reader*, London: Zed Books
- Rajendra Pandey 1985. *Sociology of Development: Concepts, Theories and Issues* New Delhi: Mittal Publications
- Wallerstein Immanuel: 1979. *The Capitalist World Economy*; Cambridge, Cambridge University Press
- Kennedy, Robert E. 1962. 'The Protestant Ethic and the Parsis' *American Journal of Sociology* Vol. 68, No. 1
- Wiarda, Howard 1983. 'Toward a non-ethnocentric Theory of Development: Alternative Conceptions from the Third World' *Journal of Developing Areas* Vol. 17. 433-452, July
- Geertz, Clifford 1963. *Agricultural Involution: The Process of Ecological Change in Indonesia*. Berkeley University of California Press
- K.C. Alexander, 1994. *The Process of Development of Societies*, New Delhi: Sage.

RURAL SOCIOLOGY: INDIAN PERSPECTIVE

Course Code: SOC-551
Course Type: Elective Course
Semester: Spring
Course Mode: L-T-P-C: 4-1-0-5

Objectives of the Course:

This course provides insight to rural India through sociological understanding of rural social structure, change and development. The course will equip the students with conceptual, theoretical and empirical clarity with regard to the comprehension of rural life and application as sociological skills to plan, monitor and evaluate rural development programme in India.

UNIT I Introduction to Rural society and Peasants:

Rural Sociology: Origin and growth; Methodological issues on Village Studies: Folk-Urban Continuum, Little Community, conceptualizing peasantry:

UNIT II Theorizing Peasantry:

Chayanov's theory of peasant economy, Marx on peasantry; Post-Marxian views on the peasantry -Daniel Thorner, T. Shanin

UNIT III Agrarian Social Structure in India:

Changing Rural Family: Structure and functions

Caste: Elaboration of caste ranking, Caste-class nexus

UNIT IV Rural Economy and Polity:

Agrarian classes - landlord, peasant, tenant, and labourer; changing rural power structure after 73rd and 74th constitutional amendment.

UNIT V Developmental Concerns in Rural society:

Land reforms and its consequences; implications of green revolution, Food Security and Sustainable agriculture

Rural poverty, ICT and Rural Development; Globalization and agriculture (IPRs, WTO/GATT etc)

Essential Readings:

- Chauhan, Brij.Raj. 1974. "Rural Studies: A Trend Report", in ICSSR (ed) *A Survey of Research in Sociology and Social Anthropology*, Vol.I, Bombay: Popular Prakashan.
- Wiser, W.H. 1936. *The Hindu Jajmani system*, Lucknow: Lucknow Publishing House
- Beteille, Andre. 1974. *Six Essays in Comparative Sociology*, New Delhi: OUP
- Joshi P.C. 1976. *Land Reforms in India*, Delhi: Allied Publisher
- Kolenda Pauline 1983. *Caste, Cult and Hierarchy*, Meerut : Folklore Institute.
- Shanin, T. 1972. *The Awkward Class*, Oxford: Oxford University Press
- Scott, James C. 1976. *The Moral Economy of the Peasant: Rebellion and Subsistence in Southeast Asia*, New Haven and London: Yale University Press.
- Shiva, Vandana. 2001. *Patents, Myths and Reality*, New Delhi: Penguin Books India.
- Ashley, C and S Maxwell 2001: *Rethinking Rural Development*, Blackwell.
- Desmarais, A.A. 2007: *Globalisation and the Power of Peasants*, Delhi: Daanish Books.
- Jean Dreze (2004). 'Democracy and Right to Food'. *Economic and Political Weekly*, Vol.39, No.17, pp. 1723-31.
- Madan, V. (ed) 2002: *The village in India*, New Delhi: Oxford University Press.
- Daniel Thorner (1966). *The Theory of Peasant Economy*, In D Thorner et al (ed) *A V Chayanov's Theory of Peasant Economy*, New Delhi: OUP.
- D Goodman and M Redclift. 1981. *From Peasant to Proletarian: Capitalist Development and Agrarian Transitions*, Oxford: Blackwell Publications.
- Harris, J. (ed.). 1982. *Rural Development. Theories of Peasant Economy and Agrarian Change*, Hutchinson: London

Further Reading:

- Desai A. R. ed. 1978. *Rural Sociology in India*, Bombay: Popular Prakashan.
- Beteille, A 1965. *Caste, Class and Power*, Berkeley: University of California Press.
- Wolf, Eric R. 1966. *Peasant*, New York: Prentice Hall.
- Chauhan, B.R. 2003. 'Village Community' in V. Das (ed.). *Sociology and Social anthropology*, OUP.
- Breman Jan, Peter Kloos and Ashwani Saith (1997). *The Village in Asia Revisited*, Delhi: OUP.
- Frankel F (1971). *India's Green Revolution*, Bombay: OUP
- Atal, Y. 1986. *The changing frontiers of caste*, Delhi: National Publishing House.
- Dhanagare, D. N. 'The Green Revolution and Social Inequalities in rural India'. *Bulletin of Concerned Asian Scholars*. 20(2) 2-13.

SOCIOLOGY OF EXCLUSION AND INCLUSIVE POLICIES IN INDIA

Course Code: SOC-609
Course Type: Core Course
Semester: Autumn
Course Mode: L-T-P-C: 4-1-0-5

Objectives of the course:

This course aims to introduce basic issues and perspectives concerning the concepts of social exclusion and inclusion. The concept of social exclusion envelops the understanding of poverty, deprivation and goes beyond this conventional wisdom to include the social and other conditions of all sorts of inequalities. The course takes a critical look at the traditional understanding of exclusion and tries to identify the ways and means of inclusion of the excluded categories.

- UNIT I Understanding Exclusion and Marginalization:**
Inequality, Capability, justice; exclusion; Humiliation; Marginalization
- UNIT II Dimensions of Social Exclusion and its consequences:**
Social Exclusion - Concept, Approaches and Forms; Life course perspective on social exclusion; Education and Exclusion; Gender and Exclusion
- UNIT III Significant thinkers on Social Exclusion and marginalized-I:**
Social Thinkers - Views of Jyotirao Phule; Periyar; M.K Gandhi
- UNIT IV Significant thinkers on Social Exclusion and marginalized-II:**
Baba Saheb Ambedkar, Ram Manohar Lohia
- UNIT V Contemporary Policies for the Inclusion of Excluded categories:**
Policies for Excluded categories (Scheduled Castes, Scheduled Tribes, OBC and their consequences)

SOCIAL MOVEMENTS IN INDIA

Course Code: SOC-657
Course Type: Elective Course
Semester: Spring
Course Mode: L-T-P-C: 4-1-0-5

Objectives of the Course:

This course introduces students of Sociology to the collective efforts of people to bring transformations in human society. It deals with nature, characteristics, structure and processes of social movements besides its emergence, dynamics, theories and arena of social movements.

UNIT I Basic Concepts

Reform, Revival, Revolution, Social Movement, Counter-Movement

UNIT II Dynamics of Social Movements

Leadership and Movements, Media and Movements, NGOs and Activism

UNIT III Theoretical Perspectives on Social Movements

Structural- Functional, Marxist, Weberian, Contemporary

UNIT IV Old Social Movements in India

Tribal Movement, Peasant Movement, Labour Movement

UNIT V New Social Movements in India

Dalit Movement; Women's Movement

Course Code : SOC - 610

Objectives of the Course:

This course aims to provide students with an understanding of philosophical issues besides research designs, formulation of research problems, in terms of comparative, functional and evolutionary, historical perspectives besides their explanations.

UNIT I Philosophy of Social Science Research

Types of Knowledge; Deduction and Induction; Value-neutrality and Reflexivity in Social Sciences; Ethics in Social Sciences

UNIT II Components of Social Research

Concept, Definition, Classification, Hypothesis, Theory, Fact, Empirical generalization

UNIT III Methodological Perspectives in Social Research

Positivism and Its Critiques; Hermeneutics, Conjectures and Refutations

UNIT IV Methodological Perspectives in Social Research

Comparative, Functional, Dialectical and Ethnographic Methods

UNIT V Explanations and Critical Social Research in Social Sciences:

Genetic, Intentional and Functional Explanations; Grand Theories vs Middle-Range Theories,

Essential Readings:

- Durkheim E. 1937. *The Rules of Sociological Method*, New York: The Free Press
- Giddens, A. (Ed.). 1974. *Positivism and Sociology*, Cambridge: Cambridge University Press
- Goode, W.J. and Hatt, P. K.. 1952. *Methods in Social Research*, New York: McGraw-Hill
- Kuhn, T. S. 1970. *The Structure of Scientific Revolution*, Chicago: Chicago University Press
- Merton, Robert K. 1968. *Social Theory and Social Structure*, London: Free Press
- Nagel, Ernest and Morris R Cohen 1981. *An Introduction to Logic and Scientific Method* Simon Publications
- Weber, Max; 1949. *Methodology of Social Science*; Free Press, Glencoe
- Feyerabend, P. K. 1975. *Against Method*, London: New Left Books
- Popper, Karl. 1963. *Conjectures and Refutations* London: Routledge
- Galtung, J. 1967. *Theory and Methods of social research*, Oslo: Universitetsforlaget
- Babbie, E. 2007. *The Practice of Social Research*, USA: Wadsworth
- Brown, Robert 1963. *Explanation in Social Science* London: Rutledge and Kegan Paul
- Mukherji, P.N. 2000. *Methodology of Social Research: Dilemmas and Perspectives*, Delhi: Sage

Course Code : SOC - 659

on medicalisation and health care in general. Special attention is paid to health and its relationship with diverse social institutions in India with a focus on recent advances, agencies and stakeholders in this area

- UNIT I Sociology of Health: Basic Concepts and Approaches**
Health, illness, sickness, diseases, healing, hygiene; Medical Model
Dimensions and indicators of health
Social epidemiology: Approaches
- UNIT II Perspectives on Sociology of Health**
Functionalist, Conflict, Interactionist, and Post-Modern
- UNIT III Health Care Institutions**
Family and Health care: The elderly, gender
Hospitals and Health Care: Hospital as a social organization (Doctors, Nurses and Patients); Community Health Care; Rural Health Programs; Commercialization of health care services
- UNIT IV State and Health Care**
Health for all; **maternal and child health**; family welfare programs; Drug policies and patents; Sanitation
- Unit V Indigenous Knowledge systems of medicine in Developing Countries**
Systems of Medicine and alternative practices; NGOs and Health Care; Communicable diseases

Essential Readings:

- Young Allan Anthropologies of illness and Sickness. 1982. *Annual Review of Anthropology*, 11, pp 257-285,
- Rothman, Kenneth 2002. *Epidemiology. An introduction*, Oxford: Oxford University Press
- Conard P. 2007. *Medicalisation of Society: On the Transformations of Human Conditions into Treatable Disorders*, Baltimore, John Hopkins University Press
- David. Arnold, 1994. *Colonising the Body: State, Medicine and the Epidemic Disease in Nineteenth Century India*, Oxford University Press, Delhi,
- Douglas Mary 1966. *Purity and Danger: An Analysis of Concepts of Pollution and Taboo* Routledge
- Kevin White 2009. *An Introduction to the Sociology of Health and Illness*. New Delhi: Sage Publications.
- Nagle Madhu 1988. *Medical Sociology*, Printwell Publishers, Jaipur
- Sontag Susan 1990. *Illness and its Metaphors*, London: Penguin pp 1-86
- Turner Bryan , 1987. *Medical Power and Social Knowledge*, London; Sage
- Annandale, Ellen 1998. *The Sociology of Health and Medicine: A Critical Introduction* London: Polity Press
- D Banerjee 1982. *Poverty, Class and Health Culture in India*, Vol. 1, New Delhi: Prachi Prakashan
- Foucault, Michael, 1989. *The Birth of the Clinic: An Archeology of Medical Perception* Routledge

Course Code : SOC - 662

This course offers a foundation for the sociological dimensions of education. It lays emphasis on major theoretical perspectives in sociology of education and its institutional linkages along with the emerging debates in the globalized era.

UNIT I Basic Concepts

Meaning and Types; Basic Education, De-schooling; Critical Pedagogy, Counter-School Culture; Cultural Capital; Curriculum as an Ideology, Knowledge Industry

UNIT II Theoretical Perspectives of Education-I

Functionalist Perspective- Emile Durkheim & Talcott Parsons

Modernist Perspective- John Dewey

UNIT III Theoretical Perspectives of Education-II

Critical Perspective- Michael Apple

Social Reproduction- Pierre Bourdieu

Feminist Perspective- Brian Skeggs

UNIT IV Education and Social Order

Education, Family and Socialization; Education and Modernization; Education, Stratification and Mobility; Education and Employment; Affirmative Policies of Education

UNIT V Implications of Liberalization on Education

Non-Government Initiatives; Privatization in Higher Education; Skill Development

Essential Readings:

- Aikara, J. 2004. *Education: Sociological Perspective*. Jaipur: Rawat Publications
- Apple, M. 2003. *The State and Politics of Education*. New York: Routledge
- Banks, O. 1971. *Sociology of Education*. London: Batsford
- Bourdieu, P. 1990. *Reproduction: In Education, Society and Culture* London: Sage Publications.
- Chanana, K. 2001. *Interrogating Women's Education*. Jaipur : Rawat Publications.
- Chitnis, S. and Altbach, P. G. 1993. *Higher Education Reform in India: Experience and Perspectives*. New Delhi: Sage Publications.
- Dewey, J. 1916. *Democracy and Education: An Introduction to the Philosophy of Education*. New York:
- Durkheim, E. 1956. *Education and Sociology*. New York: Free Press
- Foucault, M. 1969. *The Archeology of Knowledge*. London: Routledge and Kegan Paul.
- Friere, P. 2006. *Pedagogy of the Oppressed*. London: The Continuum International Publishing Group.

B.A. 2nd year

Paper – I: Social Change

Ist Unit:

Social and Cultural change – Meaning, Definition, characteristics and its comparative analysis

Forms of change- Progress, Growth, Development, Evolution, Diffusion, Revolution

Change in structure and change of structure

II unit:

Theories of Social Change- Evolutionary (Spencer); Linear (A.Comte); Cyclic (Pareto); Conflict (Marx); Ideological (Weber); functional (W. Moore)

III unit:

Factors of Social Change – Demographic, Biological, Economic, technological and cultural

Facilitators of Social Change: Social Planning and Five year Plans in India

IV unit:

Cultural Processes – Universalization and Parochialization, Modernization, Sanskritization, Westernization, Secularization, Globalization

V unit:

Social Movement – Meaning and Types: Socio-religious movements (Arya Samaji); Peasant movement (Moplah); Environmental movement (Chipko); Dalit movement (Dravidian)

References:

Bottomore, T.B. 1972. *Sociology: A guide to problems and literature*. Bombay: George

Allen and Unwin (India) (in Hindi by Gopal Pradhan)

Moore, W.1965. *Social Change*, Englewood Cliffs, NJ: Prentice Hall

Srinivas, M.N. 1963. *Social Change in Modern India*, Berkeley: University of California Press

Rao, M.S.A.1979. *Social movements in India*, Delhi: Manohar Publisher

Desai, A.R.1979. *Peasant Struggles in India*, Bombay: Oxford University Press

Singh, Y. 1973. *Modernization of Indian Tradition*, Delhi: Thompson Press (in Hindi by Ravinder Agarwal)

Oommen, T.K. 2010. *Social movements I& II*, New Delhi: OUP

B.A. 2nd year

Paper – II: Social Problems in India

Ist Unit:

Social Problems: Concept and Approaches

- **Concept, Characteristics and theoretical approaches to Social problems; Types of Social Problems – Sociology and social problems;**

II unit:

Child, Youth and Old age concerns: State policy and its consequences

III unit:

Poverty and Unemployment: Concept, Causes and its eradication (IRDP, MGNREGA)

IV unit:

Implications of affirmative action and State Policy on Scheduled castes, Scheduled tribes and Other Backward classes

V unit:

Gender issues, Casteism, Communalism, Terrorism and Corruption

References:

Becker, H. 1966. Social Problems: A modern approach, New York: John Wiley & Sons

Horton, P.B & Leslie, G.R. 1970. The Sociology and social problems, New York: Appleton Century Crofts

Stark, R. 1975. Social Problems, New York: Random house

Das, Veena. 2006. Handbook of Indian Sociology, New Delhi: OUP

India: 2010 – Reference book, GOI: Publication Division

B.A. 3rd year

Paper – III (b): Sociology of Crime (optional)

Ist Unit: Basic Concept:

Social Disorganization; Conformity, Anomie, Deviance, Delinquency, Crime, Tort; repressive and restitutive sanctions; Social control

II unit: Theories of crime

Lombroso (Biological theory); Sutherland (differential behavior); Merton (Anomie); Becker (labeling theory); Sub-cultural theory (Albert Cohen)

III unit: Causes and Types of Crime

Biological, Geographical, Social, Economic, Political and Religious causes of crime

White Collar Crime, Juvenile Delinquency, Organized crime, Cyber crime, **crime against women**

IV unit: Types of Punishment

Corporate punishment; Imprisonment; Capital Punishment; Social function of Punishment (Durkheim)

V unit: Theories of Punishment and rehabilitation(Deleted for examination evaluation)

Retributive, Deterrent, Preventive, Reformatory; Probation and parole

References:

Reckless, Walter, G.1967. The Crime Problem, New York: Meridith Publishing

Sutherland, Edwin, H. and Donald R. Creassy, 1968: Principles of Criminology, Bombay, Times of India Press.

Pranjpe, N V. 2008: *Criminology and Penology*. Allahabad: Central Law Publication.

Nisbet, R.A. 1966. Contemporary Social problems, New York: Harcourt, Brace & World, Inc.

B.A. 3rd year

Paper – III: Urban & Industrial Sociology

- UNIT I Introduction to Urban Sociology**
Urban sociology –Concept & scope; Characteristics of urban societies; Concept of Urbanization, Urbanism and Urbanity; Types of urban centers; Meaning and types of Migration
- UNIT II Introduction to Industrial Sociology**
Emergence of Industrial Sociology; Organization - Meaning and its types; Industrialization and Industrial relations in India; Forms of industrial disputes and Workers' Participation in Management
- UNIT III Approaches of Urban & Industrial Sociology**
Approaches to Urban Sociology: Max Weber - The City; The Chicago School (Robert Park & Ernest Burgess); Louis Wirth - Urbanism as a way of life
Approaches to Industrial sociology – Classical (Karl Marx, Max Weber and Emile Durkheim) & Modern (Talcott Parsons, Ralph Dahrendorf)
- UNIT IV Issues related to urban – industrial setting in India**
Urban Social Structure (Caste, Class & Ethnic groups) and Urban Planning in India
Impact of urbanization & industrialization on various institutions: Child labour; Crime against women; Problem of slums
- UNIT V State, Urban space & environmental concerns**
Environmental Degradation, Solid waste management and Sanitation concerns in urban space; Environmental Concerns: *Chipko Andolan, Narmada Bacchao Andolan, Namami Gange*

References:

- Bose, Ashish 1973. Studies in India's Urbanization, New Delhi: Tata McGraw Hill
Berge E.E. 1962. Urban Sociology, New York: Free Press
Schneider, E. V. 1957. Industrial Sociology. New York: McGraw Hill
Max Weber et. al. 1966. The City, Free Press, New York,
Wirth, Louis 1991. Urbanism a Way of Life, Irvington Publications
Park, Robert E et al. 1925. The City, University of Chicago Press.
Alfred de Souza 1979 The Indian City; Poverty, ecology and urban development, Manohar, Delhi
Amiya Kumar Das 2002. Urban Planning in India New Delhi: Rawat Publications
M.S.A Rao, 1992 1974. Urban Sociology in India New Delhi: Orient Longman
Guha, R. 1994. Social Ecology. New Delhi: Oxford University Press.
Chauhan, I.S 1998. Environmental Degradation, Delhi: Rawat Publications.
Mehta S.R. (ed)1997. Poverty, Population and Sustainable Development, New Delhi: Rawat Publications.

FACULTY OF LAW

UNIVERSITY OF ALLAHABAD

SYLLABUS B.A.LL.B. (Hons.): FIVE YEAR INTEGRATED COURSE

SEMESTER-II

PAPER-I

English-III

UNIT - I

A Essential of Good Writing

a Basic sentence faults:

- i) Sentence fragments
- ii) Comma Splice
- iii) Squinting constructions
- iv) Split infinitives
- v) Dangling constructions
- vi) Illogical comparisons

b Effective sentences:

- i) Subordination
- ii) Sentence variety
- iii) Parallelism
- iv) Emphasis
- v) Directness
- vi) Appropriateness

UNIT - II

B Writing Skills and Speech Training

- i) Précis
- ii) Reports
- iii) Proposals
- iv) Making Speeches
- v) Group Discussion

UNIT - III

C Reading Comprehension:

Intensive Reading: The Famous Speeches :(Ten) - To be prescribed.

- i) Dalai Lama – Nobel Lecture, University of Auola, Oslo
- ii) Jawaharlal Nehru – Tryst with Destiny

- iii) Mahatma Gandhi – Kashmir Issue
- iv) Mother Teresa – We have been created to love
- v) St. Francis of Assisi – Sermon of Birds
- vi) Swami Vivekananda – Response to welcome
- vii) Swami Vivekananda – A clarion call to the youth of India

UNIT - IV

D Extensive Reading : Any two of the following:

- 1) **Sherlock Holmes**: The following short stories ‘A Scandal in Bohemia’, ‘Silver Blaze’, ‘The Final Problem’, ‘The Adventure of the Six Napoleons’, ‘The Adventure of the Devil’s Foot’ and ‘The Adventure of the Illustrious Client’
- 2) **Malgudi Days**, R.K.Narayan (Eight stories from **Lawley Road** as appear in **Malgudi Days**)
- 3) **Roses in December**, M.C.Chhagla
- 4) **The Autobiography**, Benjamin Franklin, New York: The Modern Library, 1950
- 5) **Hind Swaraj**, MK Gandhi, Ahmedabad: Navjeevan, 2006

Note:

The students have to **select any two** of the prescribed books in this section as per their own interest. The books will not be taught formally in the class but compulsory questions will be there in the examination.

Text-Books and Reference Materials:

- i) **Word Power Made Easy**, Norman Lewis (Amsco School Publication, New York)
- ii) Foreign Expressions Appendix in **Twenty-first Century Chambers Dictionary**
- iii) **Essentials of Grammar and Composition**, Glenn Leggett, C. David Mead and William Charvat, Prentice Hall of India, New Delhi
- iv) **Remedial English Grammar**, FT Worod, Macmillan, Delhi
- v) **Improve Your Writing**, VN Arora and Lakshmi Chandra (Delhi:Oxford U P, 1981)
- vi) **A Course in Phonetics and Spoken English**, J Sethi and PV Dhamija (Prentice-Hall of India, New Delhi, 1992)
- vii) **A Text Books of English Phonetics for Indian students**, T Balasubrananian (Macmillan India Ltd, Delhi, 2005)

- viii) **Business Correspondence and Report Writing**, RC Sharma and Krishna Mohan (Tata-McGraw-Hill, New Delhi, 2008)
- ix) **English for Law**, MA Yadugiri and Githa Bhasker, (Foundation Books, New Delhi et al, 2005)
- x) **Professional English in Use**, (Law), Gillian D. Brown and Sally Rice, (Cambridge U P, New Delhi,2008)
- xi) **Oxford Advanced Learner's Dictionary of Current English**
- xii) **Collins Cobuild Dictionary of English Language**
- xiii) **English Pronouncing Dictionary (ELBS)**
- xiv) Krishna Mohan and NP Singh, **Speaking English Effectively**, Delhi: Macmillan, 2005
- xv) Hari Mohan Prasad and Rajnish Mihan, **How to Prepare for Group Discussion and Interview**, New Delhi: Tata McGraw-Hill, 2005
- xvi) Simon Elliott, **Public Speaking for All Occasions**, London: Business Books, 1971
- xvii) Francis Soundararaj, **Speaking and Writing for Effective Business Communication**, Delhi: Macmillan, 2007

PAPER-II

Political Science -II

Foundations of Political Obligation

UNIT – I

- 1- Concepts: Power, Authority, Legitimacy.
- 2- Moral Obligation and Political Obligation.

UNIT – II

- 1- Foundations of Political Obligation:
 - (i) Classical View: Hobbes, Locke, Rousseau.
 - (ii) Modern View: Maxweber, Marx, and Emile Durkheim
- 2- Utilitarian Theory of Political Obligation

UNIT – III

- 1- Political Obligation versus Civil disobedience: Grandhian and Neo-Gandhian view
- 2- The Problem of Obedience to Unjust Laws: Law versus Justice

PAPER-III

Semester-II

History- II

Unit -I

- a. Delhi Sultanate Theory of Kingship, Balban and Allauddin Khalji, Administrative Apparatus.
- b. Mughals: Theory of Sovereignty (Akbar).

Unit -II

Kings and their Courts

- a. Cholas: Local Self -Government, politics in Mughal India.
- b. Vijayanagara State.
- c. Zamindari & Jagirdari system.

Unit -III

- a. Social Reforms of Akbar, Status & Position of Women.
- b. Bhakti Movement and Sufism in India.

Unit-IV

- a. Administration of Justice, Qazi-ul-Qazat.
- b. Panchayats, Investigations & Punishments.

PAPER-IV

Sociology-II

Indian Sociology

UNIT I

- (a) Hindu marriage, traditional types and forms
- (b) Hindu marriage a sacrament
- (c) Muslim Marriage Traditional types and forms
- (d) Muslim Marriage a contract

UNIT II

- (a) Polygamous system and usages
- (b) Kinship system and usages
- (c) Joint Family

UNIT III

- (a) Caste system and Jaymani system
- (b) Dominant castes
- (c) Casteism.

UNIT IV

- (a) Sanskritization
- (b) Westernization, Modernization

PAPER-V

Sociology-III

Society and Crime

UNIT I

- (a) Social Disorganization
- (b) Social Pathology
- (c) Crime and Similar terms, Types and forms of crime

UNIT II

- (a) Causes of crime
- (b) Theories of crime
- (c) Social Control, Means and Agencies of social control

UNIT III

- (a) Punishment, types and theories of punishment
- (b) Reforms and Rehabilitations
- (c) Prison-systems

UNIT IV

- (a) Corruption
- (b) White-collar-crime
- (c) Crime against women and children

PAPER-VI

Political Science-III

Comparative Politics and Comparative Political Philosophy

UNIT I

- (a). Meaning, Nature and scope of comparative politics.
- (b). Approaches to the study of comparative politics: Traditional and Modern approaches.

UNIT II

- (a). Constitutionalism: Meaning, Nature and kinds of constitutionalism.
- (b). Democratic Theory:
 - (i) Definition and Meaning of Democracy
 - (ii) Direct Democracy: Referendum, Initiative and Recall (with special reference to Switzerland)
 - (iii) Grassroot Democracy: Rural and Urban local self-government with special reference to 73rd and 74th Amendment Acts.

UNIT III

- (a). Political Parties: Meaning, role and functions of political parties in modern state.
- (b). Pressure Groups: Meaning, Role and Techniques of pressure groups in modern democracy

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SEMESTER - I

PAPER-I

English – I

Unit-I

A Vocabulary: Learning the proper use of:

- 1 Legal Terms
- 2 Idiomatic expressions
- 3 Foreign words and phrases (Important Latin, Greek and English Prefixes)
- 4 Words often confused

B Grammatical Prerequisites:

- 1 Singular and Plural
- 2 Determiners
- 3 Words used as different parts of speech
- 4 Time and Tense
- 5 Conditionals
- 6 Reported Speech
- 7 Transformation

Unit-II

C Intensive Reading: The following short stories from R. K. Narayan's *Malgudi Days* (Mysore: Indian Thought Publication, 2006)

1. 'An Astrologer's Day'
2. 'The Missing Mail'
3. 'Gateman's Gift'
4. 'The Blind Dog'
5. 'Out of Business'
6. 'Atilla'

D Extensive Reading: Any two of the following books:

1. Agatha Christie, , **Witness for the Prosecution** : Harper Collins, London
2. Ernest Hemingway, **The Old Man and Sea**, Harmonds Worth:Penguin
3. Galsworthy, **Justice**
4. George Orwell, **Animal Farm**

Note: The students have to select any two of the prescribed books in this section as per their own interest. The books will not be taught formally in the class but compulsory questions will be there in the examination.

Unit-III

E Composition skills

1. **Paragraph Writing:**
Topic Sentence, Ways to Develop a Paragraph (Inductive Order, Deductive Order, Question to Answer Order, Exposition, Time Order, Comparison and Contrast, Enumeration).
2. **Letter writing:**
 - I.** Qualities of a letter
 - II.** Format of a letter
 - III.** Types of letters
3. **Note Taking**

Unit-IV

F Listening Comprehension and IPA

- 1 **a** Consonant and vowel sounds in English
- b** Speech Mechanism
- c** /-t /, /-d /, /-id / endings
- d** /-s /, /-z /, /-iz / endings
- e** Consonant clusters
- f** Syllables
- g** Word stress and sentence stress

Text-Books and Reference Materials:

- i) Word Power Made Easy**, Norman Lewis (Amsco School Publication, New York)
- ii) Foreign Expressions Appendix in Twenty-first Century Chambers Dictionary**
- iii) Essentials of Grammar and Composition**, Glenn Leggett, C. David Mead and William Charvat, Prentice Hall of India, New Delhi
- iv) Remedial English Grammar**, FT Worod, Macmillan, Delhi
- v) Improve Your Writing**, VN Arora and Lakshmi Chandra (Delhi:Oxford U P, 1981)
- vi) A Course in Phonetics and Spoken English**, J Sethi and PV Dhamija (Prentice-Hall of India, New Delhi, 1992)
- vii) A Text Books of English Phonetics for Indian students**, T Balasubrananian (Macmillan India Ltd, Delhi, 2005)
- viii) Business Correspondence and Report Writing**, RC Sharma and Krishna Mohan (Tata-McGraw-Hill, New Delhi, 2008)
- ix) English for Law**, MA Yadugiri and Githa Bhasker, (Foundation Books, New Delhi et al, 2005)
- x) Professional English in Use**, (Law), Gillian D. Brown and Sally Rice, (Cambridge U P, New Delhi,2008)
- xi) Oxford Advanced Learner's Dictionary of Current English**
- xii) Collins Cobuild Dictionary of English Language**
- xiii) English Pronouncing Dictionary (ELBS)**

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SEMESTER - I

PAPER-II

Political Science-I

Political Theory and Political Organisation

Unit-I

Political Theory

1. Definition, Meaning and Nature of Political Science and its relationship with Law.
2. Concept of State:
 - (i) Essentials of state.
 - (ii) Origin of state: Social Contract and Historical Evolutionary Theory.
 - (iii) Liberal, Marxist, Idealist, Classical Hindu and Islamic view of state.

Unit-II

3. Sovereignty:
 - (i) Concept and Attributes of sovereignty.
4. Concepts: Liberty, Equality, Rights.

Unit-III

5. Political Ideologies: Liberalism, Marxism and Fascism

Political Organisation

6. Organisation of Government: Unitary, Federal, Parliamentary and Presidential forms of Government.

Unit-IV

7. Doctrines: Separation of Powers, Rule of Law, Judicial Review and Judicial Activism.

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SEMESTER - I

PAPER-III

History-I

Ancient History

Unit I

Sources of Law in Ancient India: Veda, Dharma Shastra, Tradition, Customs and Traditions.
Legal Thinkers of Ancient India Manu.

Unit II

Nature of State, Notions of Kingship (Brahminic, Buddhist, Kautalyan), and administrative apparatus in Vedic Age and Age of Mauryas.

Unit III

Kinship, Caste and Class: Family, Rules of Marriage, Gotra, Jatis and Varnas.

Unit IV

Types of Courts and Procedures and Role of Village Panchayats.

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SEMESTER - I

PAPER-IV

Sociology-I

General Sociology

UNIT-I

- (a) Sociology, Scope and Subject Matter of Sociology
- (b) Social structure
- (c) Status and Role
- (d) Society and A Society

UNIT-II

- (a) Institutions and Associations
- (b) Social groups, primary and secondary groups,
Reference groups, In and Out groups

UNIT-III

- (a) Community
- (b) Urban Community
- (c) Rural community
- (d) Rural-Urban continuum

UNIT-IV

- (a) Socialization
- (b) Theories of Socialization

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SEMESTER - I

PAPER-V

Law of Local Self-Government

Unit- I:

- Evolution of Local Self-Government in India
- Constitutional Provisions on local Self-Government
- Recommendations of Balwantrai Mehta and Ashok Mehta Committees on Local Self - Government , A brief survey of C.H. Hanumantha Rao Committee Report, G.V.K. Rao Committee Recommendations, L.M.Singhvi Committee, V.N.Gadgil Report, Bhuria Committee Report for PESA
- Importance of Constitutional Amendments: 73rd Amendment – Rural Local bodies; Basic features ;74th Amendment – Urban Local bodies; Basic features.

Unit-II

- Structure and functions of Panchayati Raj in Uttar Pradesh, Gram Panchayat, Gram sabha, Election and removal of Pradhan, Nyay Panchayat;
- Notification regarding Consolidation, Revision and Correction of Maps and records, Preparation of Consolidation Scheme and Enforcement of Consolidation Scheme.

Unit-III

- Structure and functions of Urban local bodies in Uttar Pradesh, Municipality, Nagar Panchayat and Municipal Corporations;
- Constitutions of Development authority.

Unit-IV

- Constitution of Rent Control Tribunals, Regulation of Rent, Standard Rent, Allotment order, Letting, Appeal against allotment or release

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SEMESTER - I

PAPER-VI
English- II

Unit-I

1. Origin and Development of Equity: Maxims Viz Equity follows the law; where equities are equal, the law shall prevail; He who seeks equity, must do equity; He who comes to equity must come with clean hands; Delay defeats equity; Equality is equity; Equity looks to the intent rather than to the form; Equity acts in personam.

Unit-II

2. Development of Legal Vocabulary Legal terms and maxims for example:
Ab initio, ad interim, alibi, adhoc, audi alteram partem, bonafide, custodia legis, de novo, ejusdem generis, functus officio, habeas corpus, ipso facto, in limine, lis pendens, modus operandi, ratio decidendi, per se, status quo, ultra vires, vis major, etc.
3. Comprehension of Legal Texts—Shahbano case list nine more such cases

Unit-III

4. Legal Writing:
 - a) Legal News Writing
 - b) Legal Report Writing
 - c) Legal Essay Writing

Unit-IV

5. Legal Drafting:
 - a) Notices, Civil Suit & Affidavit.

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SEMESTER-III

PAPER-I

Political Science-IV

The Constitution of India

Unit - I

***Part-I* Constitutional Development in India**

1. Factors influencing constitutional development: Colonialism and Nationalism in India; Meaning, Nature and Different Stages.
2. Major Pre-Constitutional Acts: From Regulation Act to the Act of 1935.

Unit - II

3. Making of the Indian Constitution: Organisation, Powers and Functions of constituent Assembly.

***Part-II* The Constitution of India**

4. The Philosophy of the Constitution: The objectives Resolution, Preamble.

Unit - III

5. Salient Features of the constitution.
6. Legislatures: (i) Union Legislature and officers of Parliament.
(ii) State Legislature.

Semester III

PAPER-II

History III

1. Unit I: Social Reform Movements (Brahmo Samaj, Prarthana Samaj, Arya Samaj, Ramkrishna Mission, Swami Vivekanand)

2. Unit II: From 1600-1836:

- a. Charters of the East India company: 1600, 1661
- b. Settlements: Surat, Madras, Bombay
- c. Statutes : Regulating Act, 1773; The Act of Settlement 1781
- d. Adalat System: Warren Hastings's Judicial Plans of 1772, 1774 and 1780;

3. Unit III: Evolution of Law & Legal Institutions:

- a. Development of Personal Laws, Criminal Law & Civil Law
- b. Codification of Laws: Charter of 1833, The First Law Commission, The Second Law Commission.
- c. Establishment of High Courts under The India High Courts Act, 1861

4. Unit IV: Freedom Movement and Making of the Indian Constitution.

Recommended Text Books:

- a) D.D.Kosambi Ancient Indian History and Culture Delhi 1969 reprint
- b) P.V.Kane. History of Dharmashastras
- c) Champak Laxmi. Cholas
- d) Nilkanth Shastri. History of South India
- e) K.P. Jaiswal - Indian Polity 150-350 AD
- f) K.A.Nizami Some aspects of Religion and Politics in 13th century India
- g) A.L. Basham, the Wonder that was India, Part-I, Rupa & Co.
- h) S.A.A Rizvi, The Wonder that was india, Part –II
- i) K.S. Lal History of Khilji's
- j) Yusuf Hussain Indo-Muslim Polity

PAPER-III

Law of Tort, M.V. Accident and Consumer Protection Law

Unit - I

1. **Nature:** (i) Definition and Essential Elements of Tort, Scope of Law of Tort. (ii) Difference between Tort and Crime, Tort and Contract, Tort and Quasi-Contract, Tort and Trust, (iii) Fault and No Fault Liability. (iv) Whether it is Law of Torts or Law of Tort?
2. **Basic Maxims:** (i) *Ubi jus ibi remedium* (ii) *Injuria sine damno* (iii) *Damnun sine injuria*.
3. **General Defences:** (i) *Volenti non fit injuria*. (ii) Act of God, Inevitable Accident, Statutory Authority, Act of Necessity.
4. **Remoteness of Damage (Remoteness of Consequences)**

Unit - II

5. **Vicarious Liability:** Nature of Vicarious Liability (i) Master and Servant Relationship (ii) State Liability
6. **Strict Liability and Absolute Liability**
7. **Joint Tortfeasers.**
8. **Tort against Person:** (a) Assault (b) Battery (c) False Imprisonment
9. **Malicious Prosecution**

Unit - III

10. **Negligence:** Definition, Essential elements, *Res Ipsa Loquitur*, Product Liability due to negligence of manufacturer, Contributory Negligence, Last Opportunity rule.
11. **Nuisance:** Meaning, Elements, Kinds of Nuisance, Defences.
12. **Defamation:** Meaning, Kinds, Essential Elements and Defences.
13. **Torts against Property:** Trespass, Deceit.

REFERENCES:

- 1- Winfield on the Law of Tort.
- 2- Salmond on the Law of Torts.
- 3- Ramaswamy Iyer's the Law of Torts.
- 4- Ratanlal and Dheeraj Lal on the Law of Tort.
- 5- R.K. Bangia: Law of Torts.
- 6- R.W.M. Dais: Tort Law.
- 7- Weir: Cases and material on the Law of Tort

PAPER-IV

Constitutional Law –I

Unit - I

- 1 Nature of Constitution of India, Its salient features and pre-amble

Unit - II

- 2 Union and State Executive
- 3 Parliament and State Legislature-General, Officers of parliament, disqualification of members, powers privileges and immunities of parliament, state legislatures and its members, legislative procedure

Unit - III

- 4 Union and State Judiciary; Appointment of Judges, Jurisdiction, Independence of Judiciary
- 5 Centre-State Relations

Unit - IV

- 6 Trade, Commerce clause
- 7 Services under Union and States

Reference:

- 1 Constitutional Law of India by M.P.Jain
- 2 Constitutional Law of India by V.N.Shukla
- 3 Constitutional Law of India by H.M. Seervani
- 4 Constitutional Law of India by D.D. Basu
- 5 Constitutional Law of India by J.N. Pandey

PAPER-V

LAW OF CONTRACT-I

LAW OF CONTRACT (GENERAL PRINCIPLES): SECTION 1 TO 75 OF THE INDIAN CONTRACT ACT:

Unit - I

1. **Introduction: Meaning and Kinds of Contract.**
2. **Essential Elements of a Contract.**
3. **Proposal:**
 - (i) Meaning, Elements, Kinds of Proposal (or Offer). Rules relating to Communication of Proposal and Revocation of Proposal, Modes of Revocation of Proposal.
 - (ii) Meaning of Promise, Reciprocal Promise and Agreement.
4. **Acceptance:** Meaning, Elements, Rules regarding Communication and Revocation of Acceptance.

Unit - II

5. **Consideration:** Meaning & Elements, Past Consideration, Doctrine of Privity of Contract.
What Consideration and Objects are lawful and what not, Exceptions to the rule "an agreement without consideration is void."
6. **Competence of parties to a Contract** with special reference to minor's agreement.
7. **Free consent:** Factors vitiating free consent - Coercion, Undue influence, Fraud, Mis-representation, Mistake.

Unit - III

8. **Void Agreements** with special reference to Agreement in Restraint of Trade, Sale of Goodwill, Wagering Agreement: Meaning, Nature
9. **Contingent contract:** Meaning, Nature and circumstances when a contract is Contingent.
10. **Discharge of Contract:** Breach of Contract including Anticipatory breach of contract

Unit - IV

11. Impossibility of Performance (Doctrine of Frustration of Contract)
12. Novation of Contract, Alteration of Contract.

REFERENCES:

- 1- Law of Contract by Anson.
- 2- Law of Contract by Cheshire and Fifoot.
- 3- Law of Contract by Mulla
- 4- Law of Contract by Avatar Singh
- 5- Law of Contract by T.R. Desai

PAPER-VI

FAMILY LAW -I

Unit - I

1. Introduction: Outlines of Hindu and Muslim personal laws: with reference to sources and Schools.
2. Conditions for a valid marriage under the Hindu Law, Muslim Law and the Special marriages Act, 1954 – A comparative study
 - (a) Ceremonies
 - (b) Prohibited Degree of Relationship
 - (c) Sapinda
 - (d) Disabilities under Muslim Law and their effects
3. Kinds of Marriage (in the Hindu Law, Muslim Law and the Special Marriage Act, 1954)
 - (a) Valid
 - (b) Void
 - (c) Voidable
 - (d) Irregular
 - (e) Temporary

Unit - II

4. The Nature and Effect of a marriage vis-a-vis the Child Marriage Restraint Act, 1978.
5. The Divorce under the Hindu Marriage Act, 1955 (Grounds and their Effects).

Unit - III

6. The Divorce under the Dissolution of Muslim Marriage Act, 1939 (Grounds and their Effects).
7. The Divorce under the Special Marriage Act, 1954 (Grounds and their Effects).
8. Divorce by mutual consent: 'Khula' and 'Mubaraat' under Muslim Law and Divorce by mutual consent under the Hindu Law.

Unit - IV

9. Extra Judicial Divorce (without intervention of the Court) under Muslim Law with special reference to modern Judicial Approach in the area of talak.
10. The conditions and Effects of
 - (a) Talaq
 - (b) Talaq tafweed

REFERENCES:

- 1- **Muslim Law** by A.A.A. Fyzee.
- 2- **Muslim Law** by R.K. Sinha.
- 3- **Muslim Law** by Tahir Mahmood.
- 4- **Muslim Law** by D.F. Mulla.
- 5- **Muslim Law** by Tyabjee.
- 6- **Hindu Law** by D.F. Mulla
- 7- **Hindu Law** by Paras Diwan
- 8- **Mohammedan Law** by Syed Ameer Ali vol. 1 & 2
- 9- **Mohammedan Law** by Aquil Ahmad

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SEMESTER-IV

Paper-I

Political Science-V

International Politics: Theory and Practice

Unit - I

Part-I Theory

1. Meaning, Nature and scope of international Politics.
2. Key concepts: National Power, National Interest, National Security, Terrorism.

Unit - II

3. Alternative Models of International Security: balance of Power, Collective Security, Nuclear Deterrence, Disarmament and Arms control.
4. Foreign Policy and Diplomacy: Concept Determinants and objectives of Foreign Policy and Diplomacy, Diplomacy: Old and New.

Unit - III

Part-II Practice

5. (i) India's Foreign Policy: Determinants, Evolution since 1947, Recent Developments.
(ii) India's Nuclear Policy: Evolution and Recent Developments.

Unit - IV

6. Non-Aligned Movement(NAM): Origin, Role and Relevance, India and NAM.

Paper-II

Political Science-VI

Public Administration

Unit - I

Part-I Administrative Theory

1. Meaning, Scope and Significance of Public Administration.
2. Ecology of Public Administration.
3. New Public Administration.

Unit - II

4. Organisation: Meaning, Types and Bases of Organisation, Theories of Organisation and Principles of Organisation.

Part-II Indian Administration

5. Structure of Organisation: Central Secretariat, Cabinet Secretariat, PMO.

Unit - III

6. Constitutional Statutory Institutions/Commissions: Financial Commission, Union Public Service Commission, Election Commission, National Human Rights Commission, National Commission for Scheduled Castes, National Commission for Scheduled Tribes, National Commission for Women, National Commission for Minorities, National Backward Classes Commission.

PAPER-III

Administrative Law

Unit - I

- 1- Definition, Nature and Scope.
- 2- Reasons for the growth of administrative law and its importance in modern times.
- 3- Doctrine of Separation of powers.
- 4- Rule of Law

Unit - II

- 5- Delegated legislation: Meaning, reasons of its growth, Constitutional limits and control of delegated legislation.
- 6- Natural Justice: Rule against bias, Fair hearing, reasoned decisions.

Unit - III

- 1- Judicial control of Administrative Discretions and Actions:
- 2- Doctrine of Legitimate expectation
- 3- proportionality
- 4- Public Accountability

References:

1. American Administrative Law by Bernard Schwartz
2. English Administrative Law by Wade and Phillips
3. Indian Administrative Law by M.P. Jain and S.N. Jain
4. Indian Administrative Law by I.P. Massey
5. Indian Administrative Law by C.K. Takwani
6. Indian Administrative Law by S.P. Sathe
7. Indian Administrative Law by Prof. U.P.D. Kesari
8. Indian Administrative Law by Prof. J.J.R. Upadhyay

REVISED SYLLABUS OF CONSTITUTIONAL LAW-II

PAPER-IV

Constitutional Law –II

Unit - I

- I. Fundamental Rights

Unit - II

- I. Directive Principles of State Policy
- II. Right to property

Unit - III

- I. Amendment of the Constitution
- II. Fundamental Duties

References

- 1 Constitutional Law of India by M.P.Jain
- 2 Constitutional Law of India by V.N.Shukla
- 3 Constitutional Law of India by H.M. Seervani
- 4 Constitutional Law of India by D.D. Basu
- 5 Constitutional Law of India by J.N.Pandey

PAPER V

LAW OF CONTRACT- II

Specific Contracts

Unit - I

Contract of Indemnity

Meaning and Essentials

Indemnifier and indemnity holder – Rights and Duties vis-à-vis

Contract of Guarantee

Meaning and Essentials

Distinction between guarantee and Indemnity

Continuing Guarantee

Revocation of Continuing Guarantee

Rights of Surety and discharge of Surety from liability

Unit - II

Contract of Bailment

Meaning, Essentials and Kinds

Termination of bailment

Rights and Duties of bailor and bailee

Contract of Pledge:

Definition and Essentials, Distinction between bailment and Pledge

Contract of Agency

Meaning of Agency

Agent, Distinction from Servant and Independent contractor

Kinds of Agents

Creation of agency

Unit - III

Partnership under the Indian Partnership Act, 1932

1. Definition and Essentials of Partnership
2. Distinction of Partnership with Joint Hindu Family business and Company
3. Kinds of Partnership
4. Kinds of Partners
5. The position of minor in a Partnership firm
6. Registration of the firm
7. Dissolution of the firm

Unit - IV

The Sales of Goods Act, 1930

1. Definition and Essentials of Sale
2. Distinction between Sale and agreement to sell
3. Conditions and warranties, meaning and difference, with special reference to 'Caveat Emptor'
4. Nemo dat quod non habet

Reference:

1. The law of contract & specific relief- Avtar Singh
2. The law of contract II - R.K. Bangia
3. The law of contract II- S.K. Kapoor
4. The sale of Goods Act & The Indian Partnership Act- Mulla
5. Introduction to law of partnership including limited liability partnership- Avtar Singh
6. Law of Sale of Goods - Avtar Singh
7. A Treatise on the law of partnership- Lindley

PAPER-VI

FAMILY LAW -II

Unit - I

1. The woman's special right to property

- (a) Stridhana
- (b) Woman's Estate
- (c) Effect of /S.14, /S.15 of the Hindu Succession Act, 1956 on the Stridhan and Woman's Estate
- (d) 'mahr' (Dower)
- (e) Lawful agreements in favour of wife e.g. 'Kharchai Pandan' and 'Mewa Khori'

Unit - II

2. The Law of maintenance

- (a) The Persons entitled for maintenance
- (b) The maintenance of wife under Cr.P.C. 1973
- (c) The maintenance of Hindu wife under the Hindu Adoption and Maintenance Act, 1956
- (d) The maintenance during pendency of suit and permanent alimony under /S.24, /S.25 the Hindu Act, 1955
- (e) The maintenance of the divorced woman under the Muslim Women (Protection of Rights on Divorce) Act, 1986
- (f) The maintenance of the wife under the Special Marriages Act, 1954

Unit - III

6. The Basis of Succession in Personal Laws the Hindu Law and Muslim Law

- (a) General Principles
- (b) Exclusion from Inheritance.
- (c) Administration of Estate U/S320, 322-325 of the Indian Succession Act, 1925 and general rules of bequest in Muslim Law.
- (d) Kinds of heirs and distribution of shares
- (e) Survivorship and Succession
- (f) S.6 of the Hindu Succession Act, 1956.
- (g) Adjustment of inheritance in peculiar cases by using the doctrine of 'Increase' and 'Return', in Muslim Law.

REFERENCES:

1. **Hindu Law: Principles & Precedents** by Raghavachariar, N.R.
2. **Essays in classical & Modern Hindu Law** in 4 vols. By Derrett, J.D.M.
3. **Hindu Law and usage** by Mayne
4. **Principles of Hindu Law** in 3 vols. By Srinivasan
5. **Law of Marriage & Divorce** by Saharay, H.K.
6. **Modern Hindu Law** by Kesari, U.P.D.
7. **Hindu Law** by Agarwal, R.K.

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SEMESTER-VI

PAPER-I

Public International Law

Unit-I

- ❖ Nature, Origin and basis of International Law
- ❖ Sources of International Law

Unit-II

- ❖ Relation between International Law and Municipal Law
- ❖ Recognition of States

Unit-III

- ❖ Extradition
- ❖ Asylum

Unit-IV

- ❖ Law of sea
- ❖ Peaceful Settlement of International Disputes

Reference Books:

1. Oppenheim - International Law
2. Starke's - International Law
3. H.O. Agrawal - International Law and Human Rights
4. S.K. Kapoor - International Law
5. S.K. Verma - International Law

PAPER-II

Company Law

Unit-I

- ❖ **Meaning of Company, Definition, Incorporation**
Effects of Incorporation- Doctrine of Legal Personality and Lifting the Veil
Advantages and Disadvantages of incorporation
Liability for Pre-incorporation Contracts

Unit-II

- ❖ **Memorandum of Association:** Its meaning and importance, Object clause, Doctrine of ultravires, Effect of ultravires transaction
- ❖ **Articles of Association:** Meaning and importance, Distinction between Memorandum and Articles, Doctrine of Indoor Management

Unit-III

- ❖ **Prospectus:** Meaning and contents; Civil and Criminal Liability for false statements in the prospectus
- ❖ **Shares:** Meaning, Nature and kinds, Share Capital, Difference between Share and Debenture

Unit-IV

- ❖ **Prevention of Oppression and Mismanagement.** Meaning, purpose, conditions and Methods
- ❖ **Winding up of Companies:** Meaning, Kinds and consequences of winding up

Recommended Books:

1. Company Law by Avtar Singh
2. Company Law by Kailash Rai
3. Cases and Material on Company Law Hicks, Andrew
4. Company Law by R.K. Bangia

PAPER-III

Law of Crimes-II

Unit I

- ❖ Abetment
- ❖ Criminal Conspiracy
- ❖ Criminal Attempts

Unit II

- ❖ Sedition
- ❖ Unlawful Assembly, Riot and Affray

Unit III

- ❖ Culpable Homicide and Murder
- ❖ Wrongful restraint and Wrongful confinement
- ❖ Kidnapping and Abduction

Unit IV

- ❖ Theft and Extortion
- ❖ Robbery and Dacoity
- ❖ Criminal Misappropriation
- ❖ Mischief
- ❖ Forgery

PAPER-IV

Property Law-II and Easement

Specific Transfer and The Indian Easements Act, 1982

Unit I

- Sale-** Definition, Sale how made, Contract for sale
Rights and Liabilities of buyer and seller
Marshalling by subsequent purchaser
- Exchange -** Definition, Rights and Liabilities of parties.

Unit II

- Mortgage -** Definition and kind of mortgage. Difference between Mortgage and charge
Right of Redemption
Right to foreclosure or Sale
Doctrine of Marshalling

Unit III

- Lease -** Definition, Duration of certain leases, Leases how made
Rights and liabilities of Lessor and Lessee.
Determination of Lease
Holding over
- Gift -** Definition, Essentials elements
Revocation of Gift
Onerous Gift
Universal donee

Unit IV

- Easement-** Definition, Nature of Easements
Kinds of Easements, Easement of Necessity and Quasi necessity
- Licence -** Definition, nature and essential features, Difference between Easement, Licence and Lease

PAPER-V

LAND LAW INCLUDING TENURE AND TENANCY SYSTEM

U.P. REVENUE CODE 2006 (U.P.ACT NO. 80F 2012)

Unit I

- ❖ Objects and reasons of U.P. Land Revenue Code 2006
- ❖ Some Important Concepts (Definition: Abadi, Grove Land, Gaon Fund and Gram Sabha, Taungya Plantation, Bhumi Prabandhak Samiti etc.)
- ❖ Composition and Function of Bhumi Prabandhak Samiti,

Unit II

- ❖ Existing Land Tenure System (Bhumidhar with transferable rights, Bhumidhar with nontransferable right, Asami & Government Lessee).
- ❖ Rights of Various Tenure Holders, including their Right to Mortgage and Lease.
- ❖ Rule of transfer for SC & ST Tenure Holders.
- ❖ Succession of Male Tenure Holder.
- ❖ Succession of Female Tenure Holder.
- ❖ Wasiyat

Unit III

- ❖ Ejectment of Trespasser and effect of non_ejectment.
- ❖ Surrender and Abandonment
- ❖ Right of Division
- ❖ Revenue and Rent
- ❖ Land revenue and Procedure for realization of arrears of land revenue

Reference Books:

1. Justice S.D. Singh- U.P. Zamindari Abolition Act 1947
2. Justice B. Malik- Ceiling and Regulation Act 1976
3. B.P. Srivastava- U.P. Zamindari Abolition Act
4. S.M. Hussain- U.P. Zamindari Abolition Act
5. S.P. Srivastava- Law of Zamindari Abolition
6. Surendra Malik - Panchayati Raj Act 1947
7. S.P. Srivastava- U.P. Land Revenue Act 1901
8. R.R. Maurya- U.P. Land Law

PAPER-VI

Interpretation of Statutes and Principles of Legislation

Unit I

❖ **Basic Principles:**

- i) Meaning of Interpretation and Construction
- ii) Intention of the Legislature
- iii) Statute must be read as a whole in its context

❖ **Basic Rules of Interpretation:**

- i) Literal Rule
- ii) Golden Rule
- iii) Mischief Rule

Unit II

❖ **Internal Aids to construction**

- i) Different parts of Statutes and their aid in interpretation with special reference to Preamble, Illustration, Definition or Interpretation clause, Proviso and Schedules
- ii) Noscitur A Sociis
Ejusdem generis
Expressio Unis Est Exclusio Alterius
Casus Omissus
Surplusage

Unit III

❖ **External Aids to Interpretation**

- i) Reports of Commissions and Committees
- ii) Proceedings in Parliament
- iii) Statement of Objects and Reasons
- iv) Precedents
- v) Dictionaries
- vi) Text-Books and Encyclopedias

Unit IV

- ❖ **Interpretation of Taxing and Penal Statutes**
- ❖ **Interpretation of Remedial Statutes**
- ❖ **Repeal and Amendment of Statutes**
- ❖ **Interpretation of the Constitution**
- ❖ **Special Rules for Interpretation of Constitution**
 - i) Presumption of validity
 - ii) Liberal interpretation
 - iii) **Stare-decicis-** whether applicable in constitutional matters
 - iv) Doctrine of Implied Powers
 - v) Doctrine of Occupied Field

Reference Books:

1. Maxwell - Interpretation of Statutes
2. G.P. Singh - Principles of Statutory Interpretation
3. Markandey Katju & S.K. Kaushik - N.S. Bindra's Interpretation of Statutes
4. Jagdish Swaroop – Interpretation of Statutes

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SEMESTER-VII

PAPER-I

Alternate Dispute Resolution

Unit-I

- Alternate Dispute Redressal System:**
 - Necessity
 - Concept and scope of ADR
 - Legal Recognition of ADR : Legal Services Authority Act 1987; C.P.C. (Amendment) Act 1999, Malimath Committee Report
- Kinds of ADR System :** Lok-Adalat, Arbitration under Arbitration, Conciliation, Mediation

Unit-II

- Lok-Adalat under Legal Services Authority Act 1987**
 - Organisation and Jurisdiction of Lok Adalat
 - Powers of Lok Adalat
 - Functioning of Lok Adalat

Unit-III

- Arbitration under Arbitration and Conciliation Act 1996**
 - Definitions:** Arbitration, Arbitration Agreement, Arbitral Award, International Commercial Arbitration
 - Power of the Court to refer to arbitration
 - Appointment of Arbitration
 - Conduct of Arbitral Proceedings
 - Arbitration-award
 - Setting aside of Arbitral award

Unit-IV

- Conciliation:**
 - Meaning and scope
 - Appointment and Role of Conciliators
 - Conciliation proceedings

PAPER-II

Code of Criminal Procedure

Unit-I

- Definitions
- Constitution and Powers of Criminal Courts
- Arrest and Rights of arrested person
- Process to compel Appearance
- Security for keeping peace and Good Behaviour
- Maintenance of Wives, Children and Parents
- Preventive action of the police

Unit-II

- Information to the police and powers to investigate
- Cognizance of offences, Limitation for taking cognizance
- Complaints to Magistrates and commencement of Proceedings

Unit-III

- Form and Joinder of charges
- Trial Before a Court of Session
- Trial of warrant cases by Magistrates
- Trial of Summons cases by Magistrates

Unit-IV

- Summary Trials
- Plea-Bargaining
- Language and contents of Judgement
- Appeals, Reference and Revision
- Bail and bonds

Reference Books:

1. R.V. Kelkar – The Code of Criminal Procedure
2. S.N. Misra – The Code of Criminal Procedure
3. Lectures on Criminal Procedure by R.V. Kelkar
4. Ratan Lal – Code of Criminal Procedure
5. Batuk Lal – Code of Criminal Procedure
6. Paranjape – The Code of Criminal Procedure

PAPER-III

Gender Justice & Feminist Jurisprudence

Unit-I

1. Introduction –
Meaning and concept of gender justice and feminist jurisprudence.
Causes for violence against women.
Feminist theories –
 - a. Liberal feminism.
 - b. Radical feminism.
 - c. Socialist feminism.
2. Constitutional provisions and gender justice –
 - 2.1 Gender justice and fundamental rights and fundamental duties.
 - 2.2 Gender justice and directive principles of state policy.

Unit-II

3. Gender based violence and significant international efforts–
Specific provisions (relating to women) of Universal Declaration of Human Rights, brief reference to International Covenants on Civil and Political Rights, 1966 and Economic, Social and Cultural Rights, 1966, commission on status of women.
Declaration on elimination of discrimination against women, 1967.
Convention on the elimination of all forms of discrimination against women, 1979.
 - a. Committee on the elimination of discrimination against women.
 - b. The optional protocol to the convention on the elimination of all forms discrimination against women.World Conference on women with special focus on –
 - a. The first world conference on status of women, Mexico, 1975-World Plan of Action.
 - b. The Third world conference on women, Nairobi, 1985-Nairobi forward looking strategies.
 - c. The Fourth world conference on Women, Beijing, 1995-Beijing platform For Action- critical areas, steps to be taken.World conference on Human Rights at Vienna, 1993- Deceleration on Elimination of violence against Women, 1993.

Unit-III

4. Women and specific offences –
 - 4.1 Domestic violence w.r.t –
 - a. S. 498A IPC, matrimonial conception of cruelty.

- b. Salient features of Protection of women From Domestic violence Act, 2005.
- 4.2 Sexual harassment of women at workplace.
- 4.3 Female foeticide –
- a. Main features of Medical Termination of Pregnancy Act, 1991-
 - b. Salient features of Pre-conception and Pre-natal Diagnostic techniques (prohibition of sex selection) Act, 1994.

Reference Books:

1. Mamta Rao - Law Relating to Women and Children.
2. Dr. Anjani Kant - Law Relating to Women and Children.
3. Dr. S.C. Tripathi - Women and Criminal Law.
4. Prof. (Dr.) G.R. Nair – Gender Justice under Indian Criminal Justice System.
5. S.R. Myneni - Women and the Law.
6. Flavia Agnes, Women and law in India – an omnibus

PAPER-IV

Penology & Victimology

Unit-I

1. Meaning, aim and scope of Penology

Unit-II

2. Tackling the problem of Criminality- Penology.
 - Concept of Punishment
 - Theories of Punishment with special reference to the Deterrent and the Reformative theories.
 - Kinds of Punishment under the Indian Penal Code.
 - Capital Punishment

Unit-III

3. Prison System
 - Prison reforms in India
 - Prison objectives and problems
 - Prisoner's Rights

Unit-IV

4. Juvenile delinquency – Nature and Control measures with special reference to the Juvenile Justice (Care and Protection Act) 2015.
5. Meaning and importance of Victimology
 - Recognition and development of victim's rights.
 - Judicial attitude towards rights of victims.
 - Legislative measures for compensation to the Victims of Crime.

Reference Books:

1. Barnes and Teeters – New Horizons of Criminology
2. Sutherland, E.H. – Principles of Criminology
3. Paranjape, N.V. - Criminology and Penology
4. Siddique Ahmad - Criminology and Penology
5. Srivastava S.S. - Criminology and Criminal Administration

PAPER-V

Principles of Taxation Law

Unit-I

- Tax:** Meaning, Types and Purpose of Taxation
Difference between Tax and fee, Tax and Duty
 - Tax evasion, Tax avoidance and Tax-planning
- Scheme of Taxation:**
 - No tax without authority of Law (Article-265)
 - Taxes Levied by Union and collected by States (Article-268)
 - Tax Levied and collected by Union, Assigned to States (Article-269)
 - Tax Levied and collected by Union and Distributed between Union and States (Article-270)
 - Taxes for the purpose of Union (Article-271)
 - Taxes Levied and collected by the Union and distributed between Union and States (Article-272)

Unit-II

- Income Tax Act, 1961:**
 - Basic Concepts:**
 - Assessment year
 - Previous year
 - Assessee
 - Meaning of Income
 - Gross Total Income
 - Agricultural Income
 - Chargeability
 - Residential Status of a person
 - Residential Status and incidence of Tax

Unit-III

Heads of Income

- Income from Salaries
- Income from House property
- Income from profits and gains from business and profession
- Income from Capital Gains
- Income from other Sources

Unit-IV

Computation of Income

Income Tax Authorities and their Powers

Procedure for Assessment

Appeal and Revision

Recommended Books:

1. Law of Taxation by Kailash Rai
2. Law of Taxation by Taxman
3. Income Tax by Palakiwalah, N.A.

PAPER-VI

Banking Law

Unit-I

The Evolution of Banking Services and its History in India

- History of Banking in India
- Bank Nationalization and social control over banking
- Various types of Banks and their functions
- Contract between banker and customer: their rights and duties
- Role and functions of Banking Institutions
- Banking Sector Reforms in India (Narasimham Committee Report I (1991) and II (1998))

Unit-II

Banking System in India

- Concept of Bank and Banker, Functions of Banks, Classification of Banks, Relationship between Bank and Customer, Control by government and its agencies, Management of Banking companies, On account and audit, Reconstruction and reorganization of banking companies, Suspension and winding up of business of banking companies, Social control over banking, Banking Ombudsman, Recent Trends in Banking: Automatic Teller Machine and Internet Banking, Smart Credit Cards, Banking Frauds.
- The Banking Regulation (Amendment) Act, 2017- Provisions regarding non-performing Assets (NPAs).

Unit-III

Reserve Bank of India

- Incorporation, Capital, Management and Business of Banking Company, Central Banking function of Reserve Bank of India, Collection and furnishing of Credit Information, Control of Reserve Bank of India over Non-banking Institutions and Financial Institutions.

Unit-IV

Negotiable Instruments

- Definition and characteristic of Negotiable Instruments, Types of Negotiable Instruments, Definition and Essentials of Promissory Note, Bill of Exchange and Cheque, Liabilities and Capacity of Parties of Negotiable Instrument, Holder and Holder in due course, Transfer and Negotiation of Negotiable Instrument.
- Crossing of Cheques and payment, Dishonour of Cheques, Presentment and Payment, Dishonour, Endorsement: Definition.

Books:

1. Bashyam and Adiga, The Negotiable Instrument Act, 1997
2. M.L.Tannen, Jannen's Banking Law & Practice in India, 2000
3. Dr. Avtar Singh, Negotiable Instrument Act.
4. S.N. Gupta, The Banking Law in Theory & Practice, 1999
5. Sharma and Nainta, Banking Law & Negotiable Instruments Act

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SEMESTER-VIII

PAPER-I

Intellectual Property Rights

Unit-I

- ❖ General Introduction
 - a) Meaning & nature of IPR, Evolution and Development of I.P.R at National and International level
 - b) Types of Intellectual Property
- ❖ Trademarks –
 - a) Meaning & concept of Trademarks
 - b) Essential requirements & functions of Trademarks
 - c) Conditions for registration of Trademarks
 - d) Prohibition of registration of Trademarks
 - e) Infringement & passing off

Unit-II

- ❖ Copyrights –
 - a) Meaning & nature of copyright
 - b) Scope & functions of copyright
 - c) General principles of copyright
 - i) Requirements of copyright
 - ii) Copyright in form, not in idea
 - iii) Adaptations
 - d) Subject matter of Copyright
 - e) Term of Copyright
 - f) Author & ownership of copyright
 - g) Rights of Copyright owner
 - h) Assignment of Copyright
 - i) Infringement of Copyright & fair dealing

Unit-III

- ❖ Patents –
 - a) Meaning Patents
 - b) Object of Patent grant system
 - c) Patentable invention
 - d) Rights & obligation of Patentee
 - e) Procedure for grant of a Patent
 - f) Opposition to grant of Patent
 - g) Term of Patent
 - h) Infringement of Patent

Reference Books:

1. Cornish W,R, – Intellectual Property Rights
2. J.P. Misra – Intellectual Property Law
3. Wadehra, B.L. – Law Relation to Patents and Copyrights
4. Narayanan, P. – Intellectual Property Law
5. Bently & Sherman – Intellectual Property Law

PAPER-II

Civil Procedure Code and Limitation Act

Unit-I

- ❖ **General Introduction:** Object, scope, application and rules of interpretation of the Code
Framework of the Code
- ❖ **Definitions:** Decree, Order, Preliminary decree, Final decree, Mesne profit

Unit-II

- ❖ **Jurisdiction of Civil Courts:**
 - Kinds of Jurisdiction
 - Suits of Civil nature
 - Res Sub-judice
 - Res judicata
 - Foreign Judgements
- ❖ **Place of Suing**
- ❖ **Institution of Suits**
 - Parties of suit: General, Joinder of parties, non-joinder and mis-joinder of parties
 - Representative suit

Unit-III

- ❖ **Pleadings:** Definition and object, Basic rules of pleadings, Amendment of pleadings
- ❖ **Set-off, Counter claim**
- ❖ **Interim-Orders**
 - Temporary Injunctions
 - Inter-locutory Orders
- ❖ **Special Suits:**
 - Interpleader Suits
 - Suits by indigent persons
- ❖ **Execution of Decree**
 - Powers of Execution-Court

Unit-IV

- ❖ **Inherent Powers of the Court and its limitations**
- ❖ **Caveat:**
 - Meaning, nature and object
 - Where caveat does not lie
- ❖ **Appeal with special reference to Second Appeal**

Recommended Books:

1. Civil Procedure Code by Mulla
2. Civil Procedure Code by C.K. Takwani
3. Civil Procedure Code by S.N. Singh
4. Civil Procedure Code by T.P. Tripathi

PAPER-III

Information Technology Law 1/8

Unit-I

- 1) Introduction: What is Cyber law; need for cyber law; Cyber Space
- 2)
 - a) History and Evolution of Cyber Crime
 - b) Definition and nature of Cyber Crime
 - c) Different kinds of Cyber Crime
 - d) Legal position around the global
 - e) Prevention of Cyber Crime
- 3) Hacking
 - a) Evolution of Hacking
 - b) The Techniques of Hacking
 - c) Reasons of Hacking
 - d) Prevention of Hacking

Unit-II

- 4) Cyber Stalking
 - a) Nature and extent of Cyber Stalking
 - b) Different kinds of Cyber Stalking
 - c) Methods of Cyber Stalking
- 5) Pornography
 - a) Pornography on the Internet
 - b) Obscenity and Pornography
 - c) Child Pornography
 - d) Legal position in different countries regarding Cyber Pornography
 - i) In United Kingdom
 - ii) In United States of America
 - iii) In India
- 6) Cyber Crimes in Financial Activities
 - a) Kinds of financial Cyber Crime
 - b) Legal position in U.K.,U.S. and India

Unit-III

- 7) Cyber Terrorism
 - a) Definition and nature of Cyber Terrorism
 - b) Some incidents of Cyber Attacks
 - i. Cyber attacks between Pakistan and India
 - ii. Cyber attacks by Tamil Tigers
 - iii. Cyber attacks in Middle east
 - iv. Cyber attack on Estonia
 - c) Prevention of Cyber Terrorism
- 8) Law in the cyber space
 - a) Introduction

- b) Challenges in enforcement of Law in cyberspace
 - c) International effects for harmonization
- 9) IPR and Cyber Law
- a) The concept Intellectual Property Right
 - b) Impact of Technology on Copyright and Trade Mark

Unit-IV

- 10) E-Commerce
- a) Introduction
 - b) Digital Signature
 - c) E-Contract
 - d) E-Governance

Prescribed Books

- | | | | |
|----|--|---|----------------------------|
| 1. | Fundamental of Cyber Law | - | Rohas Nagpal |
| 2. | E-Commerce | - | Rohas Nagpal |
| 3. | An Introduction to Cyber Crime & Cyber Law | - | Dr. R.K. Chaubey |
| 4. | Cyber Crime and Digital Evidence | - | Rohas Nagpal |
| 5. | Cyber Laws | - | Mr. Justice Yatindra Singh |

PAPER-IV

Insurance Law

The Course shall comprise of the following:

Unit-I

1. Nature and definition of Contract of Insurance
 - (a) Definition of Contract of Insurance
 - (b) Contract is 'Aleatory'
 - (c) Contract of utmost good faith
 - (d) Contract of indemnity
 Contract of Wager

Unit-II

2. Insurable interest:
 - (a) Nature of insurable interest
 - (b) Nature of duration of interest
 - (c) Insurable interest and Life insurance
 - (d) Insurable interest and Fire insurance
3. The Risk:
 - (a) Meaning and Scope of risk
 - (b) Doctrine of Causa-Proxima
 - (c) Application of rule in various classes of insurance
 - (d) The elements of risk
 - (e) The alteration of the risk

Unit-III

4. Life Insurance Definition, Essentials, Nature and Scope; Event Insured; Circumstances Affecting the Risk including suicide.

Unit-IV

5. Motor Vehicle Insurance: Nature and Scope; Third Party or Compulsory Insurance of Motor Vehicles; Constitution, Powers and Function of Claims Tribunal.

Prescribed Legislations:

1. The Insurance Act, 1938
2. The Marine Insurance Act, 1963
3. The Life Insurance Corporation Act, 1956
4. The General Insurance Business (Nationalisation) Act, 1972
5. The Insurance Regulatory and Development Authority Act, 1999

Prescribed Books:

1. K.S.N. Murthy & K.V.S. Sharma, Modern Law Insurance in India (4th ed., 2002)
2. S.V. Joga Rao, M.N. Srinivasan's Principles of Insurance Law (9th ed., 2009)
3. Kenneth S. Abraham, Insurance Law and Regulation: (Cases and Materials, Foundation Press (2010)
4. John Lowry, Philip Rawlings, Insurance Law: Cases and Materials, Hart Publishing (UK) (2005).
5. Dexter Morse, Tackling Insurance Fraud- Law and Practice, Lloyd's List (2004)
6. Uma Narang, Insurance Industry in India: Features, Reforms and Outlook, (1st ed.) Publisher: New Century Publications (2013)

PAPER-V

International Organization 2/8

Unit-I

- 1) Evolution of International Organization
- 2) Legal status and functions as subject of international law
- 3) Classification of International Organization

Unit-II

- 4) Privileges and Immunities of International Organization
- 5) United Nations (a) Security Council (b) General Assembly (C) Economic and Social Council (d) Trusteeship System (e) Secretariat

Unit-III

- 6) Pacific Settlement of International Disputes through Security Council.
- 7) Peace keeping operation under United Nations caution.

Unit-IV

- 8) **International Labour Organization and other specialized and Related Agencies such as:** (a) Food and Agriculture Organization (FAO) (b) United Nations Educational, Scientific and Cultural Organization (UNESCO) (c) World Health Organization (WHO).

PAPER-VI

Project-I

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SEMESTER-IX

PAPER-I

Alternate Dispute Resolution

Unit-I

- Alternate Dispute Redressal System:**
 - Necessity
 - Concept and scope of ADR
 - Legal Recognition of ADR : Legal Services Authority Act 1987; C.P.C. (Amendment) Act 1999, Malimath Committee Report
- Kinds of ADR System :** Lok-Adalat, Arbitration under Arbitration, Conciliation, Mediation

Unit-II

- Lok-Adalat under Legal Services Authority Act 1987**
 - Organisation and Jurisdiction of Lok Adalat
 - Powers of Lok Adalat
 - Functioning of Lok Adalat
 - Definitions:** Arbitration, Arbitration Agreement, Arbitral Award, International Commercial Arbitration
 - Power of the Court to refer to arbitration

Unit-III

- Appointment of Arbitrator
- Conduct of Arbitral Proceedings
- Arbitration-award
- Setting aside of Arbitral award

Unit-IV

- Conciliation:**
 - Meaning and scope
 - Appointment and Role of Conciliators
 - Conciliation proceedings

PAPER-II

Labour and Industrial Law-I

Unit-I

General:

- Origin and Development of Labour Law
- Position of Status and Contract
- Laissez – Faire, hire and fire.
- From Contract to status
- Role of ILO in growth and development Labour Law
- Effect of Globalization

Social Security Legislations

- Social justice, social security and social equity

Unit-II

Employee's Compensations Act, 1923

- Definition of disablement, dependant, employee employer.
- Conditions for payment of compensation and when compensation is not payable.
- Notional extension of employer's premises.
- Amount of compensation and distribution
- Commissioner his powers and functions and when appeal can be preferred against the order of commissioner.

Unit-III

Employee's Provident Fund and Miscellaneous Provision Act, 1952

- Scope, application and constitutionality of Act
- Definition of Factory, Wages, Occupier
- Schemes and Benefits under the Act
- Contribution
- Protection to fund
- Authorities

PAPER-III

Bio-diversity Protection Law

Unit-I

1. Meaning and importance of Biodiversity
2. A. An overview of Antarctic Treaty, Bonn Convention on Migratory species, UNESCO Convention, Ramsar Convention on Wetlands and The Convention on International Trade in Endangered Species, 1973 (CITES)

Unit-II

3. International Convention on Biological Diversity (CBD), 1992
 - * Salient features
 - *COP-Conference of Parties
4. Principle of Sustainable Development and Biological diversity

Unit-III

5. The Biological Diversity Act, 2002
 - A. Meaning of Benefit claimers, Biological Resources
 - B. The National Biodiversity Authority- Composition, Power and Functions
 - C. The State Biodiversity Board- Composition, Power and Functions
 - D. Biodiversity Management Committees
 - E. Powers and Duties of the Central Government and State Government

Unit-IV

6. Traditional Knowledge, Traditional Knowledge Digital Library (TKDL), Legal Protection of Traditional Knowledge

Paper-IV

Forensic Science

Unit-I

Introduction to forensic science

1. Definition
2. Need
3. Functions & Roles
4. Principles

Unit-II

Forensic science in Justice Delivery.

5. Standards of admissibility of forensic evidence
6. Provisions under Constitution of India
7. Provisions under Cr.P.C.
8. Provisions under Indian Evidence Act
9. Third degree methods, stock witness, trap evidence testimonial compulsion
10. Important cases

Unit-III

Medico-Legal cases/Medical jurisprudence

11. Medico-Legal aspects of death, death from asphyxia, strangulation, drowning etc.
12. Postmortem examination

Unit-IV

13. Fingerprints & DNA Fingerprinting
14. Narco analysis & Polygraph test

PAPER-V

Right to Information Law

Unit-I

1. Right to Information – A General overview
Origin and History Right to Information.

Unit-II

2. RTI – Jurisprudential Aspects: Concepts of Freedom, Justice and Legal Rights.
3. RTI Act, 2005: Salient Features: Preliminary; RTI and Public Authorities; Central Information Commission; State Information Commission; Powers and Functions of ICs; Appeals and Penalties; and Miscellaneous Provisions.

Unit-III

4. RTI and Judicial Activism: Judicial Activism, RTI and HCs, RTI and SC, and RTI v. Judiciary.
5. RTI and other Laws (Only Sections Relevant to RTI): IT Act, 2000: Official Secrets Act, 1923, Atomic Energy Act, 1962; Contempt of Courts Act, 1971; and Acts related to IP.

Unit-IV

6. RTI – Emerging Trends: Media and RTI; RTI Art.19 (1), and Art.21: Interconnections;

Paper-VI

Private International Law

Unit-I

1. Introduction: (a) Definition, Nature, Scope and Importance of Private International Law; (b) Conflict of Law or Private International Law; (c) Distinction between Private International Law and Public International Law.
2. The Process of Classification/Characterization: Theories of Classification and its Necessity.

Unit-II

3. Doctrine of Renvoi: Partial Renvoi, Total Renvoi and its application.
4. The concept of Connecting Factor: (i) Domicile: Meaning and its Kinds; (ii) Nationality (iii) Residence.

Unit-III

5. Choice of Jurisdiction (i) Meaning and Bases jurisdiction; (ii) Position in England and India (iii) Staying of Action (iv) Forum Shopping.
6. The Law of Contractual Obligations; (i) Creation of Contractual Obligations and General Principles of Contract (ii) The Proper Law of Contract (iii) The Rome Convention, 1982.
7. Foreign Tort: (i) The Traditional Theories (ii) Present Position in English Law and Indian Law.

Unit-IV

8. Law relating to Marriage and Matrimonial Causes.

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SEMESTER-X

PAPER-I

Civil Procedure Code and Limitation Act

Unit-I

- ❖ **General Introduction:** Object, scope, application and rules of interpretation of the Code
Framework of the Code
- ❖ **Definitions:** Decree, Order, Preliminary decree, Final decree, Mesne profit

Unit-II

- ❖ **Jurisdiction of Civil Courts:**
 - Kinds of Jurisdiction
 - Suits of Civil nature
 - Res Sub-judice
 - Res judicata
 - Bar to further Suits
 - Foreign Judgements
- ❖ **Place of Suing**
- ❖ **Institution of Suits**
 - Suit: Meaning, Essentials, Presentation
 - Parties of suit: General, Joinder of parties, non-joinder and mis-joinder of parties
 - Representative suit

Unit-III

- ❖ **Pleadings:** Definition and object, Basic rules of pleadings, Amendment of pleadings
- ❖ **Plaint and Written Statement, Set-off, Counter claim**
- ❖ **Special Suits:**
 - Interpleader Suits
 - Suits by indigent persons
- ❖ **Execution of Decree**
 - Powers of Execution-Court
 - Modes of Execution- Arrest, Attachment, Delivery of property

Unit-IV

- ❖ **Appeal with special reference to Second Appeal**
- ❖ **Reference, Review and Revision**

Recommended Books:

1. Civil Procedure Code by Mulla
2. Civil Procedure Code by C.K. Takwani
3. Civil Procedure Code by S.N. Singh
4. Civil Procedure Code by T.P. Tripathi

PAPER-II**Labour & Industrial Law II****Unit-I****1. The Industrial Employment (Standing Orders) Act 1946**

- i. Scope and application of the Act and nature of certified standing order
- ii. Standing order
- iii. Procedure of Certification of Standing order
- iv. Powers of Certifying officer regarding certificate.
- v. Duration & modification of standing orders

Unit-II**2. The Trade Unions Act 1926**

- Aims and object of the Act
- Trade Union Law Visa-vis law of Tort, Contract and Constitutional Law.
- Definition of Trade Union and Trade dispute.
- Procedure of registration of Trade Union, Cancellation and withdrawal of certificate of registration.
- Privileges of a Registered Trade Union.

Unit-III**3. The Industrial Disputes Act 1947**

- Def. of Industry, Industrial dispute
- Settlement of disputes compulsory & voluntary and nature of award and its operation.

Unit-IV

- Strike and lockout

PAPER-III

Moot Court Exercise and Internship

- ❖ **Moot court (30 Marks).** Every student may be required to do at least three moot courts in a year with 10 marks for each. The moot court work will be on assigned problem and it will be evaluated for 5 marks for written submission and 5 marks for oral advocacy.
- ❖ **Observance of Trial in two cases,** one Civil and one Criminal (30 marks): Students may be required to attend two trials in the course of the last two or three years of LL.B. studies. They will maintain a record and enter the various steps observed during their attendance on different days in the court assignment. **This scheme will carry 30 marks.**
- ❖ **Interviewing techniques and Pre-trial preparations and Internship diary (30 marks):**
Each student will observe two interviewing sessions of clients at the Lawyer's Office/Legal Aid Office and record the proceedings in a diary, which will carry 15 marks. Each student will further observe the preparation of documents and court papers by the Advocate and the procedure for the filing of the suit/petition. This will be recorded in the diary, which will carry 15 marks.
- ❖ The fourth component of this paper will be Viva Voce examination on all the above three aspects. This will carry 10 marks.

PAPER-IV

Drafting, Pleading and Conveyancing

Unit-I

1. **Pleading :**
 - a) Meaning, importance and objects of pleadings, difference between pleading and proof.
 - b) Fundamental rules of pleading
 - c) Amendment of pleadings
 - d) Frame of suit, Cause of action, Joinder of causes of action, Misjoinder of causes of action
2. **Plaint:** Essential parts of plaint, Presentation and Rejection of Plaint.

Unit-II

3. **Written Statement:**
Essentials of Written Statement, Rules and exceptions as to denials, Set-off and counter claims, Consequences of Non-filing of a Written Statement

Unit-III

- 4- **Drafting:** General principles of drafting and relevant substantive rules.
Drafting Exercises in civil and criminal cases
Civil: Plaint, Written Statement, Interlocutory application.
Criminal: Complaints, Bail application.

Unit-IV

- 5- **Conveyancing:**
Parts of a deed; Drafting exercises in Sale deed, Lease deed, Power of Attorney.

Recommended Books:

1. Pleading, Drafting and Conveyancing by R.N. Chaturevedi
2. The Law of Pleading, Drafting and Conveyancing by R.D. Srivastava
3. Mogha's Law of Pleading
4. Pleadings & Conveyancing by K.K. Srivastava
5. Art of Conveyancing & Pleadings By Manohar, Murli
6. Drafting & Conveyancing By S.P. Aggarwal
7. Pleadings by S.P. Aggarwal

PAPER-V

Professional Ethics and Professional Accounting System

Unit-I

Professional Ethics:

- History, importance and contribution of legal profession.
- Enrollment of advocates and establishment of Bar Councils.
- Meaning, Nature and need of ethics of legal profession.

Unit-II

Duties of an advocate:

- Duties of advocate to the court.
- Duties of advocate to the clients.
- Duties of advocate to the society.
- Duties of advocate to the colleagues.

Punishment for professional or other misconduct:

- (a) Meaning of professional or other misconduct. (b) Nature and extent of punishment
- (c) Remedies against the order of punishment. (d) Remedies against the order of punishment.

Unit-III

Leading Cases:

- (a) Prahlad Saran Gupta v. Bar Council of India
- (b) Hikmat Ali v. Ishwar Prasad Arya and others
- (c) P.D. Gupta v. Ram Murit and others.

Unit-IV

Meaning and categories of contempt of court:

- Object and importance of contempt law, Civil and Criminal Contempt.
- Contempt jurisdiction of the subordinate courts.
- Nature and extent of punishment for contempt of court.
- Defence open to the contemnor in criminal contempt.
- Defence open to the contemnor in civil contempt.
- Remedies against the punishment for contempt of court.

Important cases on contempt of court:

- (a) Delhi judicial services association v. State of Gujarat (AIR 1995 SC 2176) (b) Mohd. Aslam v. Union of India (AIR 1995 SC 548) (c) In re Vinay Chandra Mishra (AIR 1995 SC 2348) (d) Supreme Court Bar Association v. Union of India (AIR 1998 SC 1895) (e) State of Rajasthan v. Prakash Chand (AIR) 1998 SC 1344).

Recommended Books:

1. Professional Ethics, Accountancy for Lawyers and Bench-Bar Relations by Dr. S.P. Gupta
2. Legal and Professional Ethics by P. Ramanatha Aiyer
3. Professional Ethics by Raju Ramachandran
4. Legal Ethics, Accountability for lawyer & Bench- Bar Relations by Kailash Rai.
5. Professional Ethics by Sirohi

PAPER-VI

Project-II

Unit - II

Heads of Income - Income from salaries, Income from house property, Income from profit and gains from business & profession, Conditions when the incoming is chargeable under profit and gains Business and Profession, Income from Capital gains, Conditions when the income is chargeable under the Head, Capital Gains, Income from Other Sources.

Unit - III

Computation of Income - Set off and carry forward of losses, Income Tax Authorities and their powers, Procedure for Assessment, Penalties under section 271.

Appeal and Revision - (i) Appeal (ii) Revision

Unit - IV

(3) **Constitutional Aspects** - Taxation and right to equality, Distribution of Taxing Powers, Inter Governmental Tax Immunities, Taxation and freedom to carry trade, commerce and INTERCOURSE.

(4) **Basic Concepts of GST, Constitutional Amendment Relating to GST**

X X

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**B.A. PART I (T.D.C.)
URDU EXAMINATIONS**

There shall be two papers.
Each paper shall consist of 75 Marks.

Paper - I (Nazm)

پہلا پرچہ (نظم)
کل نمبر: ۷۵

سوال اردو میں کئے جائیں گے جن کی تعداد مطلوبہ سوالوں سے پچاس فیصد زیادہ ہوگی۔ سوالوں کو پانچ حصوں میں اس طرح تقسیم کیا جائے گا کہ پورے نصاب کا احاطہ ہو سکے۔ ہر حصہ سے کسی ایک سوال کا انتخاب کرنا ہے۔ تشریح کا ہر سوال دو اقتباسات پر مبنی ہوگا اور دونوں لازمی ہوگا۔ جواب اردو میں درکار ہوں گے۔

نمبروں کی تقسیم:

متن کی تشریح و توضیح (دو سوالات) ۳۰ نمبر

تثقید و تبصرہ (تین سوالات) ۴۵ نمبر

ہر ایک سوال میں چار اقتباسات ہوں گے جن میں سے صرف دو کے جواب درکار ہوں گے۔

دائرہ مطالعہ:

- (۱) نظم نگاری کی تعریف اور اردو میں اس کے عہد بہ عہد ارتقاء کا اجمالی خاکہ
- (۲) درج نصاب شعراء کے تخلیقی محرکات و عوامل
- (۳) درج نصاب شعراء کے عہد و ماحول سے واقفیت
- (۴) درج نصاب نظموں کا فنی مطالعہ
- (۵) درج نصاب نظموں کے اقتباسات کی تشریح و توضیح

دری کتاب:

- شہ پارے (نظم) مطبوعہ ادارہ نشر و اشاعت، شعبہ اردو، آلہ آباد یونیورسٹی سے مندرجہ ذیل ہیں:
- (۱) نظریہ آکر آبادی مفلسی، آدمی نامہ، بالین بانسری جیتا
(۲) مانی مدو جز اسلام (انتخاب)
(۳) آکر آبادی گاندگی نامہ، برقی کلسا
(۴) آتال حضرت راہ، مسجد قرطبہ (انتخاب) جبرئیل و ابلیس
(۵) عیسیٰ فریاد تو تم، گوگلے ہر ماہی کا ایک سین
(۶) جوتی کسان، حسن اور مزدوری، بھر و شیب
(۷) تیشی شاعر میں تری گلیوں کے، ہم جہ تار یک ماہوں میں،
سج آزادی

(۸) علی سردار جعفری اردو کی خاک حسین، تم نہیں آئے تھے جب
کہو کہ نہ کسی ایک کسر کا

- (۱) سنے ادبی رحمانات ڈاکٹر سید اعجاز حسین
(۲) جدید اردو شاعری ڈاکٹر عبدالقادر سردری
(۳) جدید شاعری ڈاکٹر عبادت بریلوی
(۴) نظم جدید کی روشنی ڈاکٹر وزیر آغا

Paper - II (Nasr)

دوسرا پرچہ (نثر)

کل نمبر: ۷۵

سوال اردو میں کئے جائیں گے جن کی تعداد مطلوبہ سوالوں سے چھاس فیصد زیادہ ہوگی۔ سوالوں کو پانچ حصوں میں اس طرح تقسیم کیا جائے گا کہ پورے نصاب کا احاطہ ہو سکے۔ ہر حصہ سے کسی ایک سوال کا انتخاب کرنا ہے۔ تشریح کا ہر سوال دو اقتباسات پر مشتمل ہوگا اور دونوں لازمی ہوں گے۔ جواب اردو میں درکار ہوں گے۔

نمبروں کی تقسیم:

- نتیجہ کی تشریح و توجیح (دوسوالات) = ۳۰ نمبر
تقدیر و تبصرہ (تین سوالات) = ۳۵ نمبر
ہر ایک سوال میں چار اقتباسات ہوں گے جن میں سے صرف دو کے جوابات درکار ہوں گے۔

داثر مطالعہ:

- (۱) کہانی کی تعریف اور اس کے عناصر ترتیبی
(۲) اردو میں کہانی کے عہد بہ عہد ارتقا کا اجمالی خاکہ
(۳) ڈرامے کی تعریف اور عناصر ترتیبی
(۴) نمائندہ ڈراما نگاروں کا تعارف
(۵) طنز و مزاح کی تعریف اور نمائندہ مصنفین کا تعارف
(۶) درج نصاب مصنفوں کے تخلیقی محرکات و عوامل سے واقفیت
(۷) درج نصاب کہانیوں کا قافی مطالعہ
(۸) درج نصاب نثر کے اقتباسات کی تشریح و توجیح

دری کتاب:

شہ پارے (نثر) مطبوعہ ادارہ نشر و اشاعت، شعبہ اردو، آلہ آباد یونیورسٹی سے مندرجہ ذیل:

کہانیاں:

- (۱) پریم چند کرشن چندر سعادت حسن منٹو عصمت چغتائی واجتہد سنگھ بیدی قرۃ العین حیدر قاضی عبدالستار
کفن لال باغ ٹوپیک سنگھ چوگی کا جوڑا لا جوتی یہ تازی یہ تیرے پر اسرار بندے / بہت جھوٹی آواز ہے جیل کا گھنٹہ

(۲) ڈراما: (انتخاب) آتال

(۳) طنز و مزاح:

پلرس تھاری

رشید احمد صدیقی

مشاق احمد یوسفی

ادبی کتاب:

(۱) مختصر تاریخ ادب اردو

(۲) اردو افسانہ

(۳) اردو ادب میں طنز و مزاح

(۴) اردو ڈراما، روایت اور تجربہ

(۵) اردو افسانے کا ارتقاہ

(۶) عہدہ ڈاکٹر حسین اختر

انتخابی تاریخ ڈاکٹر سید اعجاز حسین

کے

شاعر ہونا کیا معنی رکھتا ہے

ترے کو ہے سے ہم کھلے

ڈاکٹر سید اعجاز حسین

پروفیسر سید وقار حسین

ڈاکٹر وزیر آغا

ڈاکٹر عبدالحق شاکر

ڈاکٹر محمد حامد پھیروی

ڈاکٹر حسین اختر

B.A. PART II (T.D.C.)
URDU EXAMINATIONSThere shall be two papers.
Each paper shall consist of 75 Marks.

Paper - I (Ghazal)

پہلا پرچہ (غزل)

کل نمبر: ۷۵

سوال اردو میں کئے جائیں گے جن کی تعداد مطلوبہ سوالوں سے چھاس فیصد زیادہ ہوگی۔ سوالوں کو پانچ حصوں میں اس طرح تقسیم کیا جائے گا کہ پورے نصاب کا احاطہ ہو سکے۔ ہر حصہ سے کسی ایک سوال کا انتخاب کرنا ہے۔ تشریح کا ہر سوال دو اقتباسات پر مشتمل ہوگا اور دونوں لازمی ہوں گے۔ جواب اردو میں درکار ہوں گے۔

نمبروں کی تقسیم:

- نتیجہ کی تشریح و توجیح (دوسوالات) = ۳۰ نمبر
تقدیر و تبصرہ (تین سوالات) = ۳۵ نمبر
ہر سوال میں چار اقتباسات ہوں گے جن میں سے صرف دو کے جوابات درکار ہوں گے۔

داثر مطالعہ:

- (۱) غزل کی تعریف اور اردو میں اس کے عہد بہ عہد ارتقا کا خاکہ
(۲) درج نصاب شعراء کے تخلیقی محرکات و عوامل
(۳) درج نصاب شعراء کے عہد و ماحول سے واقفیت
(۴) درج نصاب غزلوں کا قافی مطالعہ
(۵) درج نصاب غزلوں کے اشعار کی تشریح و توجیح

- دری کتاب: شہ پارے (معلم) مطبوعہ ادارہ نشر و اشاعت، شعبہ اردو، الہ آباد یونیورسٹی سے مندرجہ ذیل نثریں:
- نیر: (۱) قاسم تار حسن سے (۲) اہلی ہو گئیں سب تہہ بیری (۳) ہمارے آگے تڑپ (۴) جس سرگورہ آج ہے (۵) جناح کی وکیل (۶) دلچسپوں سے (۷) مضمون لکھی کرے ہے (۸) پورنگ بوئے گل (۹) عذر سے یاد کرتا (۱۰) سبھی کو جہاں تلوہ فرما (۱۱) گریہ کیسے تو ظہیر آہا رہتا ہوں (۱۲) ارض و سما کہاں (۱۳) حباب آسماں ہم پر تانا ہوں (۱۴) فریب حسن سے کہہ رہا ہوں (۱۵) کماں کو فریب کس ستارہ (۱۶) جلاسی شمع کے مانند (۱۷) ناز طلب جو ہوتے (۱۸) محض نظر ہے (۱۹) محرم نہیں ہے تو ہی (۲۰) ہے کس کہ ہر اک ان کے (۲۱) حسن سرگرچہ (۲۲) آہ کو چاہئے اک عمر (۲۳) یہ سبھی ہماری قسمت (۲۴) کسی کو دے کے دل کوئی (۲۵) گر خاشی سے فائدہ (۲۶) آخر میندی سے پارہ ترمان (۲۷) اڑاں کو مار گئیں ہوتا (۲۸) نیروں پہ کھل نہ جائے (۲۹) آنکھوں سے جیا چپکے ہے (۳۰) ناگ انما چدر (۳۱) غضب کیا ترے دھڑے پہ (۳۲) عمر سے شرمش انداز کرے (۳۳) ہمہت کے پیش نامہ پیشاں (۳۴) تھوڑے آہادی (۱) تیرا نہیں بھلا گیا ہوں (۲) اب بھی اک عمر (۳) ڈھونڈو گے اگر گلوں گلوں (۴) شہرت: (۱) نگہ پارہتے (۲) حسن بے پردا گو (۳) اب دل ہے نہ دویش (۴) مہلا تالا کھوں سین (۵) شہ پارے: (۱) شاد بھائی خیر ہے (۲) آملہ موٹو نم ہائے نہانی

- (۳) شہ پارے (۴) مرکز برہمنی نغمی دو حیات (۵) دنیا بھری انا جاتے لگی ہے (۱) خردی کا فخر چڑھا (۲) اب سے دل کے کتھے سے (۳) کلس سے بوئے ستارہ (۴) نرائ: (۱) سر میں سودا گئی نہیں (۲) ایک شب ہم دو گئی تھی (۳) بہت پہلے سے ان قدموں (۴) تو سے سر پر کوئی دھاتیں (۵) شام تم بھراس کا ہڈا کی (۶) کسی کا ہون تو ہوا (۷) تیرے تم کو جاں کی کاش (۲) گونا گونا تک ہم کش (۳) گلوں میں رنگ بھرے (۴) رنگ بھرا ہم کا (۵) ستم کی زبیں بہت تھیں لیکن (۶) گلی پاؤں جین سے نامر کا گلی: (۱) ہوتی ہے ترے نام سے (۲) گلی پاؤں جین سے (۳) ترے خیال سے (۴) دوس ادا سے جتاے (۵) کچھ یاد رکھو ستم کر لی لے نہیں (۶) امدادی کتب: (۱) حرف غزل (۲) غزل اور دور کی غزل (۳) غزل اور مطالعہ غزل (۴) جدی غزل (۵) آزادی کے بعد کی غزل کا تنقیدی مطالعہ ڈاکٹر بشیر بدر (۶) ڈاکٹر سنج ایشاں (۷) اختر اصراری (۸) ڈاکٹر عبادت بریلوی (۹) پروفسر رشید احمد صدیقی (۱۰) آزادی کے بعد کی غزل کا تنقیدی مطالعہ ڈاکٹر بشیر بدر

Paper - II (Nasr)

دوسرا پرچہ (نثر)
کل نمبر: ۷۵

سوال اردو میں کے جائیں گے جن کے تعداد و مطالبہ سوالوں سے پچاس فیصد زیادہ

ہوگی۔ سوالوں کو پانچ حصوں میں اس طرح تقسیم کیا جائے گا کہ پورے نصاب کا احاطہ ہو سکے۔ ہر حصے کسی ایک سوال کا انتخاب کرنا ہے۔ نثر کا ہر سوال دو اقتباسات پر مشتمل ہوگا اور دونوں لازمی ہوگا۔ جواب اردو میں درکار ہوں گے۔

نیروں کی تقسیم:

متن کی نثر تو بیچ (دو سوالات) ۳۰ نمبر
تنقید و تبصرہ (تین سوالات) ۳۵ نمبر
ہر سوال میں چار اقتباسات ہوں گے جن میں سے صرف دو کے جوابات درکار ہوں گے۔

داغ کا مطالعہ:

- (۱) ناول کی تعریف اور اس کے عناصر ترکیبی کا تعارف
(۲) اردو میں ناول نگاری کے عہد پر عہد ارتقا کا اجمالی خاکہ
(۳) قبیلہ نگاری کی تعریف اور اس کی خصوصیات
(۴) آزادی کی طر و نگار کی انفرادیت کا مطالعہ
(۵) اردو میں خطوط نگاری کی خصوصیات
(۶) "آب حیات" کی روشنی میں اردو شعراء کے سوانحی خاکوں کا مطالعہ
(۷) "لندن کی ایک رات" کا فنی تجزیہ
(۸) درج نصاب مصنفین کی انفرادیت کا مطالعہ
(۹) درج نصاب متن کی نثر تو بیچ

دری کتب:

- (۱) شہ پارے (نثر) مطبوعہ ادارہ نشر و اشاعت، شعبہ اردو، الہ آباد یونیورسٹی سے مندرجہ ذیل خطوط:

- اردو کے مصلیٰ (انتخاب) مرزا غالب
غبار خاطر (انتخاب) مولانا ابوالکلام آزاد
(۲) آب حیات مولانا محمد حسین آزاد

صرف مندرجہ ذیل شعراء کے حالات شامل نصاب ہیں۔ ان میں درج اعداد فارغ از نصاب ہیں:

- (۱) امیر خسرو (۲) دلی (۳) سودا
(۴) میر (۵) اٹناہ (۶) تاج
(۷) آتش (۸) ذوق (۹) غالب
(۱۰) انیس (۱۱) دبیر

- (۱۲) لندن کی ایک رات سید سجاد ظہیر
(۱۳) تیرنگہ خیال (حصہ اول) محمد حسین آزاد
میں سے مندرجہ ذیل مضامین:

دیباچہ
بچ اور جھوٹ کا زخم نامہ
انسان کی حال میں خوش نہیں رہتا
شہرت عام اور جتانے دوام کا دربار

امدادی کتب:

- (۱) آب حیات کا تنقیدی مطالعہ پروفسر سید مسعود حسن رضوی اور سب
(۲) اردو میں خطوط نگاری شمس الرحمن فاروقی
(۳) مقدمہ تیرنگہ خیال پروفسر حفیظ رضا
(۴) اردو میں قبیلہ نگاری ڈاکٹر مسٹر عظمیٰ

B.A. PART III (T.D.C.)
URDU EXAMINATIONS

There shall be two papers.
Each paper shall consist of 75 Marks.

Paper - I (Nazm)

پہلا پرچہ (نظم)
کل نمبر: ۷۵

سوال اردو میں کئے جائیں گے جن کی تعداد مطلوبہ سوالوں سے پچاس فیصد زیادہ ہوگی۔ سوالوں کو پانچ حصوں میں اس طرح تقسیم کیا جائے گا کہ پورے نصاب کا احاطہ ہو سکے۔ ہر حصے سے کسی ایک سوال کا انتخاب کرنا ہے۔ تشریح کا ہر سوال دو اقتباسات پر مشتمل ہوگا اور دونوں لازمی ہوں گے۔ جواب اردو میں درکار ہوں گے۔

نمبروں کی تقسیم:

متن کی تشریح و توضیح (دو سوالات) ۳۰ نمبر
تحقیق و تبصرہ (تین سوالات) ۴۵ نمبر

ہر ایک سوال میں چار اقتباسات ہوں گے۔ جن میں سے صرف دو کے جوابات درکار ہوں گے۔

دائرہ مطالعہ:

- (۱) مثنوی قصیدہ اور مرثیہ کی تعریف اور اردو میں ان کے عہد بہ عہد ارتقاء کا اجمالی خاکہ
- (۲) درج نصاب شعراء کے شعری بحران و بحال
- (۳) درج نصاب شعراء کے عہد و ماحول سے واقفیت
- (۴) درج نصاب متن کا قافی مطالعہ
- (۵) درج نصاب متن کے اقتباسات کی تشریح و توضیح

دہلی کتب:

شہ پارے (نظم) مطبوعہ ادارہ نشر و اشاعت شعبہ اردو اسلامیہ اہل حدیثی سے مندرجہ ذیل:
(الف) مثنوی: (۱) سمر البیان (انتخاب)
(۲) گلزار نسیم (انتخاب)

(ب) قصیدہ:

اردو قصیدہ نگاری کے عہد بہ عہد ارتقاء کا اجمالی خاکہ
(۲) داود کیا مستقل ہے بارغ عالم کی ہوا
(۳) سمیت کاشی سے چلا جا تب حشر اہل دل
حسن کا گودی

(ج) مرثیہ:

(۱) نیک نخواستہ نظم ہے نصاحت میری
(۲) کوفتیں بہار آئی جھنگل کھٹ جہن کو
میرا تپس
مرزا دبیر

امدادی کتب:

اردو قصیدہ نگاری ڈاکٹر ابو محمد عمر
انیس ششاسی پروفیسر فضل امام رضوی
مرزا سلامت علی دبیر پروفیسر محمد زماں آرزو
مقدمہ و تعارف سمر البیان ڈاکٹر سید رفیق حسین
مقدمہ و تعارف گلزار نسیم ڈاکٹر سید رفیق حسین

Paper - II (TAREEKH-E-ADAB-E-URDU
AURTANQEED)

دوسرا پرچہ (تاریخ ادب اردو اور تنقید)

کل نمبر: ۷۵

سوال اردو میں کئے جائیں گے جن کی تعداد مطلوبہ سوالوں سے پچاس فیصد زیادہ ہوگی۔ سوالوں کو پانچ حصوں میں اس طرح تقسیم کیا جائے گا کہ پورے نصاب کا احاطہ ہو سکے۔

ہر حصے سے کسی ایک سوال کا انتخاب کرنا ہے۔ تشریح کا ہر سوال دو اقتباسات پر مشتمل ہوگا اور دونوں لازمی ہوں گے۔ جواب اردو میں درکار ہوں گے۔

نمبروں کی تقسیم:

متن کی تشریح و توضیح (دو سوالات) ۳۰ نمبر
تحقیق و تبصرہ (تین سوالات) ۴۵ نمبر

ہر ایک سوال میں چار اقتباسات ہوں گے۔ جن میں سے صرف دو کے جوابات درکار ہوں گے۔

دائرہ مطالعہ:

- (الف) تاریخ ادب اردو:
- (۱) اردو زبان کی ابتدائی نشوونما کا خاکہ
- (۲) دہلی اور گھنٹہ کے دبستان شاعری
- (۳) علی گڑھ تحریک
- (۴) ترقی پسند تحریک
- (۵) جدیدیت کا ارتقاء
- (ب) تنقید:
- (۶) تنقید کی تعریف اور شرقی و مغربی تنقید کے بنیادی اصول
- (۷) اردو تنقید کے عہد بہ عہد ارتقاء کا خاکہ
- (۸) "مقدمہ شعر و شاعری" کی اردو تنقید میں اہمیت
- (۹) حالی کے تنقیدی نظریات کا تعارف
- (۱۰) شبلی کے تنقیدی نظریات کا تعارف
- (۱۱) انیس اور دبیر کے مرثیہ کی روشنی میں نصاحت و بلاغت کی تقسیم و تعبیر
- (۱۲) "ہمارے شاعری" کی تنقیدی اہمیت اور سید سہودس رضوی کا بحیثیت ناقد تعارف
- (۱۳) سید احتشام حسین کے تنقیدی نظریات کا مطالعہ
- (۱۴) درج نصاب متن کے اقتباسات کی تشریح و توضیح

دہلی کتب:

(۱) "مقدمہ شعر و شاعری" مولانا احتشام حسین حالی
انتہا ہوتا "ان کو روزی سے متعال کرنا" شامل نصاب ہے۔ انیس اور دبیر
خطیم لہر دہلی، گلزار نسیم اور سمر البیان کا کتاب سے متعلق پانچ اقتباسات کا انتخاب کرنا۔
(۲) سوانح انیس و دبیر مولانا شبلی حالی
نصاحت، بلاغت اور سوانح کے باب شامل نصاب ہیں۔
(۳) ہماری شاعری سید سہودس رضوی ادب
حصا لال سے "معیار" شامل نصاب ہے۔
(۴) شہ پارے (نثر) مطبوعہ ادارہ نشر و اشاعت شعبہ اردو اسلامیہ اہل حدیثی سے مندرجہ ذیل مطالعہ:

زبان اور تنقید سید احتشام حسین
تنقید اور مرثیہ آگہی سید محمد عقیل رضوی
ترسیل کی ناکامی کا اہلیہ شمس الرحمن قادری

امدادی کتب:

آب حیات مولانا محمد حسین آزاد
مختصر تاریخ ادب اردو ڈاکٹر سید احتشام حسین
اردو ادب کی تنقیدی تاریخ پروفیسر سید احتشام حسین
دوادنی اسکول علی جمالی
اردو ادب کی تاریخ حمید آفرین
مقدمہ سوانح انیس و دبیر ڈاکٹر سید احتشام حسین
حالی: ایک عہد ساز فنکار ڈاکٹر زریں بیگم
سید سہودس رضوی ادب چودھری سید سید محمد
"فردوس اردو" احتشام حسین نمبر

Paper - III NASR (OPTIONAL)

DASTAN, NOVEL AND ESSAYS

تیسرا پرچہ۔ نثر (اختیاری)

(داستان، ناول اور مضامین)

کل نمبر: ۷۵

سوال اردو میں کئے جائیں گے جن کی تعداد مطلوبہ سوالوں سے چھاس فیصد زیادہ ہوگی۔ سوالوں کو پانچ حصوں میں اس طرح تقسیم کیا جائے گا کہ پورے نصاب کا احاطہ ہو سکے۔ ہر حصہ سے کسی ایک سوال کا انتخاب کرنا ہے۔ تشریح کا ہر سوال دو اقتباسات پر مشتمل ہوگا اور دونوں لازمی ہوگا۔ جواب اردو میں درکار ہوں گے۔

نبروں کی تقسیم:

متن کی تشریح و توضیح (دو سوالات) ۳۰ نمبر

تعمیر و تبصرہ (تین سوالات) ۴۵ نمبر

ہر ایک سوال میں چار اقتباسات ہوں گے۔ جن میں سے صرف دو کے جوابات درکار ہوں گے۔

دری کتب:

داستان:

میر انیس باغ و بہار (انتخاب)

رجب علی بیگ سرور نساہ گلاب (انتخاب)

رقن تاجہ سرشار نساہ آزاد (انتخاب)

ناول:

نذر احمد توبہ انصوح (انتخاب)

مرزا محمد ہادی رسوا امر آؤ جان ادا (انتخاب)

مضامین:

سر سید احمد خاں، محمد علی علیہ السلام، مہدی افادی، امجد حسین، ملا علی قاسم، سیدین امدادی کتب:

لہن داستان گوئی تعلیم الدین احمد

ہاری داستانیں وقار عظیم

اردو ناول کی تخلیقی تاریخ علی عباس حسینی

OR

FARSI AUR ILM-E-BADEE

فارسی اور علم بدیع

داکر مطالعہ:

فارسی عبارات کی تقسیم اور ترجمہ
درج نصاب فارسی نثر نگاروں کے متعلق معلومات
درج نصاب فارسی نظم نگاروں کے متعلق معلومات
اردو سے فارسی مختصر جملوں اور فقروں کا ترجمہ
منازع و بدائع سے واقفیت

دری کتب:

فارسی کی پہلی کتاب پروفیسر جعفر رضا

مطبوعہ ادارہ نشر و اشاعت شعبہ اردو علامہ آبادیو سندھوئی

مطبوعہ ادارہ نشر و اشاعت شعبہ اردو علامہ آبادیو سندھوئی

محمد حسن مسکری، مطبوعہ آتر پردیش اردو اکادمی، گھنٹو

امدادی کتب:

مناذیر عم

بروفیسر محمدی حسن ناصر

آؤر عم

تعلیم الدین حسینی

تاریخ ادبیات ایران

ڈاکٹر رضا زاوہ شفیق

Ist Semester

(1)

URDU DEPARTMENT
UNIVERSITY OF ALLAHABAD
SYLLABUS OF M.A. URDU
SEMESTER FIRST

PER	TITLE	COURSE CODE
Paper:	Classical Urdu Ghazal	URD-501
2 nd paper:	Urdu Masnavi	URD- 502
3 rd paper:	Urdu Qaseeda	URD- 503
4 th paper:	Urdu Marsiya	URD- 504
Paper:	Urdu Zaban ki Tareekh	URD- 505

Handwritten signatures and dates:
20/7/18
20/7/18
20/7/18

IInd Semester

(1)

URDU DEPARTMENT
UNIVERSITY OF ALLAHABAD
SYLLABUS OF M.A. URDU
SEMESTER SECOND

PAPER	TITLE	COURSE CODE
First Paper:	Jadeed Urdu Ghazal	URD-511
Second Paper:	Jadeed Urdu Nazm	URD-512
Third Paper:	Urdu Novel	URD-513
Fourth Paper:	Urdu Afsana	URD-514
Fifth Paper:	Urdu Drama	URD-515

(1)

IIIrd Semester

URDU DEPARTMENT
UNIVERSITY OF ALLAHABAD
SYLLABUS OF M.A. URDU
SEMESTER THIRD

PAPER	TITLE	COURSE CODE
First Paper:	Urdu Nasr ki Tareekh	URD-601
Second Paper:	Ghair Afsanvi Adab	URD-602
Third Paper:	Nazari Tanqeed	URD-603
Fourth Paper:	Optional:	
	(1) Ghalib ka khusoosi Mutala	URD-651
	(2) Iqbal ka Khusoosi Mutala	URD-652
Fifth Paper:	Optional	
	(1) Sir Sayyed ka Khusoosi Mutala	URD-653
	(2) Prem Chand ka Khusoosi Mutala	URD-654

(1)

IV Semester

URDU DEPARTMENT
UNIVERSITY OF ALLAHABAD
SYLLABUS OF M.A. URDU
SEMESTER FOURTH

PAPER	TITLE	COURSE CODE
First Paper:	Urdu Shairy Ki Tareekh	URD-611
Second Paper:	Urdu Tanqeed	URD-612
Third Paper:	Urdu Tahqeeq	URD-613
Fourth Paper:	Optional	
	1. Urdu Dastan	URD-614
	2. Ma'sir Adab	URD-615
Fifth Paper:	Optional	
	1. Tanz-o-Mezah	URD-616 616
	2. Tashkeel-e-Matn Ke Adab	URD-617

S. H. Khan
23/11/20
HEAD
Urdu Department
University of Allahabad
Prayagraj-221002

B.sc. Part-I Zoology Theory

PAPER-I

A: PROTOZOA, PORIFERA, COELENTERATA

General classification of the non-chordate phyla upto classes. The structure, habits and post embryonic development including larval forms of the non-chordate types and special topics against each phylum mentioned below:

Protozoa- *Monocystis, Leishmania*

- Protozoa and human diseases

Porifera- *Sycon*

- Canal system in Porifera

Coelenterata- *Obelia*

General characters and affinities of Ctenophora;
Coral reef formation.

B: PHYSIOLOGY

Physiology of processes in animals with special reference to man

Physiology of

- Circulation,
- Digestion,
- Respiration,
- Excretion

Endocrine system:

Functions of various glands and their secretions.

PAPER II

A: PLATYHELMINTHES, ASCHELMINTHES AND ANNELIDA

Platyhelminthes – *Schistosoma*

Host- parasite relationship

Parasitic adaptations in Platyhelminthes

Aschelminthes - *Wuchereria bancrofti*

Annelida- *Nereis*, *Hirudinaria*;

Segmental organs

B: BIOCHEMISTRY

Characteristics, classification and nature of proteins, carbohydrates and lipids.

Glycolysis, Krebs` cycle, oxidative phosphorylation, gluconeogenesis, Cori Cycle

Enzymes-nature, properties, classification, co-enzymes, Prosthetic group, mode of action of enzymes with special reference to induced fit theory.

Vitamins, classification, importance and sources of vitamins.

PAPER III

A: ARTHROPODA, MOLLUSCA, ECHINODERMATA AND HEMICHORDATA

Arthropoda- *Palaemon*

General character and affinities of *Peripatus*

Mollusca- *Pila*

- Torsion and detorsion

Echinodermata- *Asterias*

- Water vascular system in Echinodermata

Hemichordata – *Balanoglossus*

- Affinities of Hemichordata

B: TAXONOMY AND EVOLUTION

TAXONOMY

Principles of systematics and taxonomy

Evolutionary history of taxonomy

Objectives of classification

- Theories of classification, grouping and ranking, Diversity of individuals
- Principles of hierarchy

Definition, use and application of International code of Zoological Nomenclature

EVOLUTION

Synthetic theory of evolution

- Selection, Mutation
- Migration, Genetic drift
- Isolation, Speciation

B. Sc. Part II- Zoology Theory

PAPER-I

PROTOCHORDATES, ANIMAL DISTRIBUTION AND ECOLOGY

PROTOCHORDATA (Urochordata, and Cephalochordata)

- General characters, anatomy and histology
- Post embryonic development of Amphioxus and Ascidian

ANIMAL DISTRIBUTION

- Geological and geographical distribution of animals
- Zoo-geographical regions of the world with their faunal characteristics with special reference to mammals

ECOLOGY

- Structure and function of ecosystem
 - Ecological, environmental factors and limiting factors
 - Trophic levels, Energy flow and concept of pyramids
 - Biogeochemical cycles
 - Adaptation of animals in deserts and freshwaters

PAPER-II
VERTEBRATA

Agnatha

- General characters and classification

Gnathostomata

General characters, classification and comparative anatomy of the

- Integumentary,
- Circulatory,
- Digestive,
- Respiratory
- Nervous systems with special reference to **Scoliodon, Rana, Varanus, Columba and Lepus.**
-

Special topics

- Parental care, origin and evolution of Amphibia

- Sphenodon as living fossil

- Biting mechanism of poisonous snakes; snake venom and antivenom

- Flight adaptation of birds

PAPER-III
GENETICS AND CELL BIOLOGY

GENETICS

- Mendel's law of inheritance
- Linkage, crossing over and chromosome mapping
- Sex linkage and sex determination in *Drosophila* and man
- Dosage compensation and Lyon's hypothesis
- Blood group and haemoglobin genetics in man
- Inborn errors of metabolism in man
- DNA and RNA structure
- Evidences that nucleic acids are the genetic material-transformation in pneumococcus
- Hershey-Chase experiment
- RNA as genetic material in small viruses
- Replication of DNA-Messelson and Stahl's experiment
- Genetic code
- Molecular basis of mutation

CELL BIOLOGY

- Principles of fixation and staining.
- Fundamentals of TEM and SEM
- Cell cycle, mitosis and meiosis
- Nucleus, Nuclear membrane and nucleolus
- Structure and chemical composition of eukaryotic chromosomes
- Nucleosome structure
- Structure and functions of plasma membrane
- Golgi apparatus, mitochondria, lysosomes, endoplasmic reticulum and ribosomes.

B. Sc. Part III- Zoology Theory

PAPER-I

A: MOLECULAR BIOLOGY AND GENETIC ENGINEERING

MOLECULAR BIOLOGY

- Eukaryotic genome organizations
- Unique and repetitive DNA sequences
- Molecular basis of gene regulation in prokaryotes; inducible, repressible systems
- Immune system
 - Cellular components of the immune system
 - Immunoglobulin
 - Major histocompatibility complex
- Somatic cell genetics
 - Heterokaryons and cell hybrids
 - Gene regulation in Heterokaryons and somatic cells

GENETIC ENGINEERING

- Scope of genetic engineering
- Restriction enzymes and their use in gene cloning
- Nucleotide sequencing, isolation and analysis of mRNA
- In vitro synthesis of recombinant DNA and gene cloning techniques
- Application of recombinant DNA technology in biology, medicine, industry and agriculture
- Potential hazards of recombinant DNA technology

PAPER- II
ECONOMIC ZOOLOGY AND ENVIRONMENTAL BIOLOGY

ECONOMIC ZOOLOGY

- Protozoa: Protozoan parasitic diseases of man and domestic animals with special reference to zoonotic significance of *Entamoeba histolytica*.
- Platyhelminthes: Life cycle and zoonotic significance of *Diphyllobothrium latum*
- Aschelminthes; Life cycle and zoonotic significance of *Dracunculus medinensis*
- Arthropoda: Life cycle and zoonotic significance of representative tick.
- Beneficial and harmful insects.
- Interrelationship of mosquito with malaria, yellow fever, dengue, encephalitis and dermatobia their prevention and control.
- Aquaculture: Basic concepts, management and economics (including Pear Fishery)

ENVIRONMENTAL BIOLOGY

Environmental pollution

▪ **Air Pollution**

Nature of pollutants, their sources and effects on human, plants and animals and their control

▪ **Water pollution**

Sources, consequences and control

▪ **Soil pollution**

Sources, nature and harmful effects

▪ Deforestation and desertification, Chipko movement, **deforestation** and overgrazing

▪ Environmental hazards of radiation, **General Principles of radiation biology**.

▪ **Toxicants and industrial effluents, Absorption, distribution and excretion of toxicants and their undesirable effects, Biological factors affecting toxicity.**

▪ **Environmental health**

Water in relation to human disease, urbanization stress and health

Basic concepts of environmental monitoring.

PAPER III
DEVELOPMENTAL BIOLOGY AND ETHOLOGY

DEVELOPMENTAL BIOLOGY

Asexual reproduction

- The morphogenetic processes and the stages (blastema, blastogenesis and blastozoids).
- The kinds (fission, budding, gemmule formation).
- Comparison between blastogenesis and embryogenesis

Sexual reproduction

- Gametogenesis (spermatogenesis and oogenesis)
- Parthenogenesis

Metamorphosis

- The morphogenetic processes and causation in amphibians.
- Tissue reactivity and induction process

Regeneration

- The morphogenetic processes in regeneration
- Amphibian limb regeneration
- Histology of regeneration process (metaplasia)
- Factors influencing regeneration (stimulation, suppression)

Growth

- Concept of growth, degrowth and cell death
- Mechanism of growth
- Growth curves and their interpretation
- Type of cell growth

ETHOLOGY

Innate and learned behaviour

Imprinting and Fixed Action Patterns

Methods used in Ethological studies

Fighting behaviour

- How animals mark their territories and defend them

Social behaviour

- Advantages of being social
- How animals establish social hierarchies, communicate

Courtship displays and courtship behaviour

Nesting behaviour

- How animals construct a protective home to rear their young

Migratory behaviour of fish

Migratory behaviour of birds and navigation

Recommended books for B.Sc. I

1. Modern textbook of Zoology Invertebrate by R.L.Kotpal
2. Invertebrate Zoology by E.L.Jordan.
3. Animal physiology and Biochemistry by R.A.Agarwal,A.K.Srivastav and Kausal Kumar.
4. Animal physiology and Biochemistry by H.R.Singh and Neeraj Kumar.
5. Animal taxonomy and Museology by Dalela and Sharma.
6. Organic evolution and animal distribution by Veer Bala Rastogi.
7. A manual of practical zoology Invertebrate by P.S.Verma.

Recommended books for B.Sc. II

1. Chordate Zoology by Jorden and Verma.
2. Modern textbook of Zoology Vertebrate by R.L.Kotpal.
3. Cell biology, Genetics, Molecular biology, Evolution and Ecology by Verma and Agarwal.
4. Genetics by P.K.Gupta.
5. Introduction to animal ecology and environmental biology by H.R.Singh.
6. Organic evolution and animal distribution by Veer Bala Rastogi.
7. A manual of practical zoology Chordates by P.S.Verma.

List of Reference Books for B.Sc. 3rd Year

Paper I: Molecular Biology and Genetic Engineering

1. Biotechnology by B.D. Singh
2. Molecular Biology and Genetic Engineering by P.K. Gupta
3. The Cell: A Molecular Biology Approach by Cooper and Hausman
4. Wilson and Walker's Principles and Techniques of Biochemistry and Molecular Biology by Andreas Hofmann and Samuel Clokle
5. Kuby Immunology by Punt, Stranford, Jones and Owen

Paper II: Economic Zoology and Environmental Biology

1. Economic Zoology by G.S. Shukla and V.B. Upadhyaya
2. Economic Zoology by Vinita Jaiswal and K.K. Jaiswal
3. Environmental Biology by P.S. Verma and V.K. Agarwal
4. Environmental Biology and Toxicology by P.D. Sharma
5. A Textbook of Environmental Studies by Asthana and Asthana

Paper III: Developmental Biology and Ethology

1. Animal Behaviour by Manning and Dawkins
2. Developmental Biology by Shastri and Shukla
3. Animal Behaviour by Reena Mathur
4. An Introduction to Embryology by B.J. Balinsky and B.C. Fabian

**DEPARTMENT OF ZOOLOGY
UNIVERSITY OF ALLAHABAD**

Choice Based Credit System Syllabus (Zoology)

SEMESTER I

ZOO 501: Non-Chordata

UNIT I

Protozoa: Reproduction, Locomotory organs and locomotion

UNIT II

Porifera: Canal System, Skeletal system

UNIT III

Cnidaria: Metagenesis in Obelia

UNIT IV

Platyhelminthes: Evolution of Parasitism, Tegument and tegumental organs

UNIT V

Annelida: Metameric segmentation, Trochophore larva- Structure and significance

ZOO 502: Non-Chordata

UNIT I

Arthropoda: Mouth parts and mode of feeding, Crustacean larvae-Structure and significance.

UNIT II

Insect Metamorphosis and its hormonal control,

UNIT III

Mollusca: Archimollusca (Ancestral Mollusca)

UNIT IV

Cephalopoda:Nervous system

UNIT V

Echinodermata: Larval form and its significance

ZOO 503: Chordata

UNIT I

Chordata: Origin of Chordates, Origin of Gnathostomes

Pisces: Ostracoderms and Devonian fishes

UNIT II

Lung fishes (Dipnoi) and their peculiar features:

UNIT III

Reptilia: Origin of Reptiles, Skull of reptiles and its significance in classification of Reptilia

UNIT IV

Aves: Origin of Birds, Palate of Birds

UNIT V

Mammalia: Origin and evolution of Mammalia,

Suggested Readings:

1. Orr, R.T. Morphology and biology of Reptiles.
2. De Beer, G.R. Vertebrate Zoology.
3. Romer, A.S. Vertebrate Body.
4. Majumuria, T.S. Introduction to Chordates.

ZOO 504: Evolution

UNIT I

Facts and theories of evolution: during pre- and Darwin era.

UNIT II

Evolution: a new synthesis: Developments and concept of synthetic theory, Elemental forces of evolution, Mutation, Selection (types of selection, selection coefficient, selection in natural population), Genetic drift: Changes in gene frequency in small population; Migration

UNIT III

Population genetics: Gene frequencies in Mendelian population, Hardy-Weinberg equilibrium, Conditions for the maintenance of genetic equilibrium

UNIT IV

The nature of reproductive isolation, genetic basis of isolating mechanisms
Concepts of species and models of speciation: allopatric and sympatric speciation

UNIT V

The role of hybridization in evolution: Definition and immediate effect of hybridization.

Suggested Readings:

1. Organic Evolution: R.S. Lull
2. Dobzhansky Th.: Genetics and the Origin of Species. Columbia.
3. Freeman S. and Jon C. Herron (1998): Evolutionary Analysis. Prentice Hall
4. Futuyma D. J. (1998): Evolutionary Biology. Sinauer
5. Hartl D. L. and A. G. Clark (1989 & 1997): Principles of Population Genetics. Sinauer
6. Ridley M. (1993): Evolution. Blackwell.
7. Strickberger M. W. (2000): Evolution. White M. J. D. (1978): Modes of Speciation. Freeman

ZOO 505: Biostatistics

UNIT I

Population sample, random sample, tabular and graphical representation of data

UNIT II

Mean and standard deviation of grouped and ungrouped data

UNIT III

Binomial, Poisson and Normal distribution

UNIT IV

Tests of significance- t, F, Chi- square test.
Analysis of Variance

UNIT V

Correlation

Suggested Readings:

1. George W. Snedecor, William G. Cochran. 1992. Statistical Methods. Wiley-Blackwell. 503pp.
2. Frederick Emory *Croxton*, Dudley J. Cowden. 1939. Applied General Statistics. Prentice-Hall, 944pp.
3. Karmel, P.H. &Polasek, M. 1970. Applied statistics for economists. Publisher, Pitman. 519pp.
4. Spiegel, M.R.: Theory & Problems of Statistics, Schaum's outline series, McGraw Hill Pub. Co., NewYork :Schaum's Outline Series (McGrawHill), 1961
5. Spiegel, M.R.: Probability and Statistics. 1982. Paperback. Wiley's Summer Savings Event.
Amazon.com.
6. Marylees Miller, Irwin Miller, 2012. Freund, John, E's Mathematical Statistics with Applications. 624pp.Paperback. Pearson.

SEMESTER III

ZOO 510: Formal and Experimental Embryology

UNIT I

Descriptive embryology with particular reference to frog and chick

Egg types; Cleavage Patterns; Fate maps; Morphogenetic movement and formation of germ layers; Gastrulation in amphibian and birds

UNIT II

Organizer concept: Properties and physiology of organizer; Primary Organizer and Primary Induction, neurulation.

UNIT III

Regeneration (Epimorphic/Morphallactic)

Regeneration of the amphibian limb

Regeneration in Hydra

UNIT IV

Foetal membranes; Placentation in animals: Types and functions

Teratogenesis: environmental assaults on development; teratogenic agents; teratological abnormalities

UNIT V

Experimental Embryology: Basic Concepts

Standard techniques and methods of experimental embryology:

Experiments on the analysis of early development and differentiation (Experiments of Spemann and Mangold), vital dyeing, extirpation, isolation, transplantation

RECOMMENDED BOOKS

1. Balinsky, *B.I.* : An Introduction to *Embryology*, . Holt-Saunders, Philadelphia.
2. S. F. Gilbert. Developmental Biology

ZOO 511: Animal Behaviour

UNIT I

Definition and general mechanism of animal behaviour

Major contribution of scientists: In classical ethology and modern behavioural biology

UNIT II

Modern concepts of animal behaviour: Ethological and Psychological

Methods of study of animal behaviour: In wild and laboratory environment, Neuroanatomical, Neurophysiological and Neurochemical approach

UNIT III

Development of behaviour: Innate and Learned; Comparative account on characteristics of instinct and learning; Neuro-genetic mechanism of instinct

UNIT IV

Learning and Memory: Classification or forms of learning and memory.

UNIT V

Motivation and behaviour

Suggested Readings:

1. Manning, A. An Introduction of Animal Behaviour.
2. Russell, E.S. The behaviour of Animals.
3. Mc Farland, D. Animal Behaviour: Psychology, Ethology & Evolution.
4. Alcock, J. Animal Behaviour: An evolutionary approach.
5. Dugatkin, L.A. Principles of Animal Behaviour.
6. Silverman, P. Animal Behaviour in the laboratory.

ZOO 512: Biotechnology

UNIT I

Recombinant DNA technology: Introduction, Restriction endonucleases and applications, other useful enzymes for molecular cloning, steps in gene cloning, identification and isolation of desired gene.

UNIT II

Cloning vectors, screening and selection of recombinant DNA clones, gene probes as diagnostic tools, biosynthesis of insulin, somatostatin and growth hormone

UNIT III

Tissue culture, hybridoma technology and monoclonal antibodies: Cell culture, culture media, animal cloning

UNIT IV

Environmental biotechnology: Bioconversions, pollution control, microbial enhancement of oil recovery, microbial mining and metal recovery, sewage treatment

UNIT V

Health care biotechnology: gene replacement therapy

Miscellaneous: An introductory knowledge of biosensors, biochips

DNA fingerprinting,

Immobilized enzymes.

ZOO 513: Molecular Biology

UNIT I

Molecular analysis of eukaryotic DNA- overall composition, reassociation kinetics, kinetic analysis of eukaryotic DNA,
Nucleotide polymerases, DNA replication, repair and mismatch mechanisms

UNIT II

The basic transcription apparatus, promoters, enhancers, termination and antitermination,
Organisation of eukaryotic genes-globin gene, IgG, histone gene

UNIT III

Genetic code, protein synthesis:m-RNA processing and Translation. Organelle genomes.

UNIT IV

Structure and life cycles of bacteriophage T2 or T4 virulent and temperate phages, RNA phages, tumour viruses and their life cycles, retroviruses, Topoisomerases, gyrases, methylases, nucleases

UNIT V

Molecular biology of cancer: Oncogenes, chemical carcinogenesis
Principles and methods of gene targeting, gene silencing

Elective (Any one of following may be opted)

ZOO 560: Fish & Fisheries

UNIT I

Classification; Elasmobranchs, Holocephalians, Dipnoans and Actinopterygians (including the ancestral groups of Acanthodians. Crossopterygians)

UNIT II

Origin and evolution of major groups of fish

UNIT III

Adaptation of fishes; Hill-stream

UNIT IV

General features of the skin and fins of teleosts

UNIT V

Fish migration with particular reference to Salmon. Hormonal regulation of fish migration

Suggested Readings:

1. DattaMunshi, J.S. and M.P. Srivastava. Natural History of Fishes and Systematic of Fresh water Fishes of India. 2006 Narendra Publ. House, New delhi
2. Gupta S.K. and Gupta P.C. General and Applied Ichthyology.
3. Srivastava, C.B.L. A. textbook of Fishery Science and Indian Fisheries.
4. Lagler et. al. Ichthyology
5. Norman, J.R. A History of Fishes.
6. Kyle, H.M.A. Biology of Fishes
7. Khanna, S.S. An Introduction to Fishes.

ZOO 561: Environmental Biology

UNIT I

Meaning and Scope of Environmental Biology.

Practical application of Environmental Biology.

UNIT II

Environmental Problems: Local, regional and global.

UNIT III

Environmental problems associated with resource exploitation and energy utilization in developing and developed countries.

UNIT IV

Environmental Biochemistry.

UNIT V

Sources of toxic substances in the environment.

Factors affecting toxicity.

Suggested Readings:

1. Elements of Ecology. Clarke
2. Ecology, Eugene P. Odum. 1965. Amerind Publishing, New delhi
3. Ecology with Special reference to Animal and Man. S. Charles Kendeigh
4. Principles of Animal Ecology: Allee, Emeroon, Park and Schmidt.
5. Ecology. C.J.Krebs.
6. Ecology 2000. Eds. Edmond Hillary. London Michael Joseph. 1984.

ZOO 562: Cell Biology

UNIT I

Plasma membrane:

Fine structural details with reference to various models, functions of plasma membrane;

Transport across cell membranes: active transport.

UNIT II

Endoplasmic reticulum: Structure and function (protein uptake and modification).

Golgi apparatus: Fine structural details and functions; protein sorting in Golgi apparatus.

UNIT III

Ribosomes; prokaryotic and Eukaryotic ribosomes.

Lysosomes: Structure, types (primary and secondary), formation and function.

UNIT IV

Mitochondria: Fine structural detail and functions (Electron Transport Chain and Oxidative phosphorylation)

UNIT V

Nucleus: Ultra structure, nuclear envelope, structure and function of nuclear pore complex, internal organization.

Suggested Readings:

1. Lodish, Molecular Biology of the Cell.
2. Karp, G. (7th Edition), Cell and Molecular Biology: Concepts and Experiments.
3. Alberts ET Al., Essentials of Cell Biology

SEMESTER II

ZOO 506: Ecology

UNIT I

Population growth: Exponential and logistic patterns of population growth, Intrinsic rate of natural increase $[r]$, its determination and importance in population ecology.

UNIT II

Lotka- Volterra Model of interspecific competition. Modern concepts of Niche. Niche parameters. Niche overlap.

Biodiversity: Measures of species diversity.

UNIT III

Law of thermodynamics as they relate to ecological energetic. Food webs

UNIT IV

Biogeochemical cycles: Nitrogen, Phosphorous and Sulphur cycles in terrestrial and aquatic ecosystems. Energy flow models.

UNIT V

Ecological succession, its types and concept of climax.

Remote sensing, Practical applications of ecology.

Suggested Readings:

1. Calver, M., Lymbery, A., McComb, J. and Bamford, M. Environmental Biology.
2. Clarke. Elements of Ecology.
3. Odum. E.P. 1965. Ecology. Amerind Publishing, New Delhi.

4. Kendeigh. S.C. Ecology with Special reference to Animal and Man
5. Allee, Emerton, Park and Schmidt. Principles of Animal Ecology.
6. Krebs, C.J. Ecology
7. Joseph. M. 1984. Ecology 2000. (Eds. Edmond Hillary. London).

ZOO 507: Methodology & Instrumentation

UNIT I

Fluorescence and Electron Microscopy (SEM & TEM) with principles and working.

UNIT II

General laboratory methods, Autoradiography, radioactive labeling and counting i.e. liquid scintillation UNIT III

Principles of chromatography and electrophoresis, centrifugation and ultracentrifugation UNIT IV

UV- VIS Absorption Spectrophotometry,

Spectrofluorometry UNIT V

Hydrobiological techniques for determination of inorganic ions in water (Na^+ , K^+ , Ca^{++} , Li^+ , SO_4^- , PO_4^- , and Cl^-)

ZOO 508: Animal Physiology

UNIT I

Ultrastructure of Muscle and its contraction Nerve conduction and neurotransmitters UNIT II

Major sense organs and receptors, electric organs Excretion and osmoregulation

UNIT III

Reproduction- Male and female reproductive physiology UNIT IV

Bioluminescence

Active transport across membranes UNIT V

Endocrinology: Glands, hormonal secretions and functions Stress Physiology: High altitude and deep sea physiology

ZOO 509: Biochemistry

UNIT I

Thermodynamics: Elementary knowledge, oxidation-reduction,

Electrolytes: Concepts of buffer, Henderson-Hasselbach equation UNIT II

Glycolysis, Krebs' cycle, oxidative phosphorylation, gluconeogenesis,

Hexose monophosphate pathway, glycogen metabolism, peptidoglycan, UNIT III

Amino acid: Chemistry, properties and metabolism

Proteins; Structure-Primary, secondary, tertiary and quaternary structure, Ramchandran plot, protein isolation, Solubilities and protein targeting

UNIT IV

Lipids: chemistry, metabolism of fatty acid and cholesterol Nucleic acids: Chemical nature, biosynthesis of nucleotides UNIT V

Enzymes: Kinetics, inhibition, mechanism of action, Michaelis and Menton equation, isoenzymes allosteric enzymes, ribozymes, Abzymes

Elective (Any one of the following may be opted)

A. For Biology Student

Biodiversity and Wild

Life Nematology

Skill-development

Communication

Biology

B. For Non Biology

Students Hormones and

Health Basic Genetics

Elementary Biochemistry

ZOO 551: Biodiversity and Wild Life

UNIT I

Animal Taxonomy and Diversity

Conservation Biology

Quantitative Biology

UNIT II

Genomics and Biodiversity

Molecular Tools for diversity studies-Significance of Molecular Tools in Diversity and Conservation Studies- Barcoding, RT-PCR.

UNIT III

Wildlife habitat and species

populations Threat of species

extinction

Wildlife Health and Population Management; Wildlife Health; Population Management.

UNIT IV

Principles of forest management, forest and wildlife as natural resources. Conservation and sustainable development.

Over-exploitation of wildlife natural resources UNIT V

Concept of conservation with special reference to forest and wildlife management

- a) Conservation verses preservation
- b) Conservation Genetics-Genetic management of threatened species
- c) Management and Conservation Practice
- d) Values of biodiversity and conservation ethics
- e) Role of zoos and aquariums in conservation, Concept of stakeholders. International conservation bodies; IUCN, UNDP, FAO, WWF

Suggested Readings:

1. Edward O. Wilson, 1996, Biodiversity, 521pp., National Academy Press.
2. Alison J. Stattersfield, Michael J. Crosby, Adrian J. Long, and David C. Wege. 1998. Endemic Bird Areas of the World: Priorities for Biodiversity Conservation. 846pp.
3. Bibby, J., Collar, N.J., Crosby, M.J., Heath, M.F., Imboden, Ch., Johnson, T.H., Long, A.J., Stattersfield, A.J., and Thirgood, S.J. 1992. Putting biodiversity on the map: priority areas for global conservation.

ZOO 554: Skill Development: Sericulture

UNIT I

Sericulture: Definition, history and present status. Silkworms: Types of silkworms, their food plants and distribution. Silk production: Mulberry and non-mulberry cocoon and yarn.

UNIT II

Prospects of Sericulture in India. Sericulture industry in different states, employment, potential in mulberry and non-mulberry sericulture.

UNIT III

Sericulture Centres. Research Training and extension. Central Silk Board (CSB): Role in Extension and development. Directorate of Sericulture: Extension and development in sericulture on state level.

UNIT IV

Mulberry plant morphology: Mulberry species: Classification, distribution and common varieties used in Sericulture in India.

UNIT V

Mulberry cultivation, harvesting & management. Economics: irrigated, non-irrigated & temperate region cultivation. Cost-benefit ratio.

Suggested Readings:

1. Ganga, G. and Sulochana Chett, J. 1997. Introduction to Sericulture. 302pp.
2. Anonymous. 1987. Manuals on Sericulture, CSB, Bangalore
3. Koshy, T.D. 1990 Silk Export and development, Ashish Publ. House, New Delhi
4. Yokoyama, T. 1959. Silkworm Genetics illustrated, Japanese Society for Promotion of Science, Japan.
5. Anonymous. 1993. Principles and techniques of silkworm Breeding, United Nations, USA (Oxford IBH, Calcutta)
6. Anonymous. 1997. Silkworm Egg production (Translated from Japanese) Oxford IBH, New Delhi

7. Anonymous. 1997. Silkworm rearing. (Translated from Japanese) Oxford IBH, New Delhi
8. Anonymous. 1972. Handbook of Silkworm rearing, Fuji Publ. Co., Tokyo, Japan
9. Jolly et al. 1974. Tasar Culture, CSTRI, Ranchi
10. Sathe, T.V. 1998. Sericultural crop Protection, Asawari Publ, Osmanabad.
11. Aruga, H. 1994 Principle of Sericulture, (Translated from Japanese) Oxford and IBH Publ., New Delhi
12. Sarkar, Dilip de 1998. The silkworm Biology, Genetic and breeding, UBS Publ. New Delhi
13. Jolly et al. 1987. Appropriate sericulture techniques, CSR & TI, Mysore

**Department of Zoology, University of Allahabad
Curtailed Syllabus**

SEMESTER IV

ZOO 514: Bioinformatics

UNIT I

Biology & IT, Computers in Biology and medicine, Introduction to Genomics and Proteomics etc.

Definition and terminology: Cladogram, Dendrogram, Phylogram and Phenogram.

UNIT II

Biological sequence data banks (GENBANK, EMBL, SWISSPORT, PDB)

Sequence alignment (Global & Local), Algorithms used (Dynamic & Heuristic) - Needleman Wunsch, Smith Waterman BLAST, FASTA

UNIT III

Trees: Rooted and unrooted trees

Species Tree and Gene Tree: Homology, Homoplasy, Orthology, Paralogy and Xenology

Trees Construction Methods: Maximum Parsimony, Maximum Likelihood,

Branch and Bound

UNIT IV

Fitch- Margoliash method and distance based methods.

Distance based methods: Least squares,

Neighbor joining, UPGMA

UNIT V

Bootstrapping and split decomposition; Concepts and its application in tree construction Application of Phylogeny: Pedigree analysis.

Suggested Readings:

1. Bioinformatics-Sequence and Genome Analysis-David W. Mount, CSHL Press
2. Molecular Systematics, 2nd ed. D.M. Hillis, C. Moritz and B.K. Mable, Sinauer Associates, Sunderland. Massachusetts.
3. Fundamental Concepts of Bioinformatics, Krane, D.E. and Raymer M.L. Pearson Education

Elective Papers

Fish & Fisheries

ZOO 569: Fish & Fisheries

UNIT I

General features of the anatomy, physiology and function of internal organs of teleosts
Alimentary canal & digestion.

UNIT II

Respiration, Swim bladder, Accessory respiratory organs

UNIT III

Excretion and Osmoregulation Reproduction and Reproductive organs

UNIT IV

Endocrine glands and Caudal neurosecretory system

UNIT V

Sense Organs, Lateral line organs.

Electric organs.

Suggested Readings:

1. Datta Munshi, J.S. and M.P. Srivastava Natural History of Fishes and Systematic of Fresh water Fishes of India. 2006 Narendra Publ. House, New Delhi
2. Gupta S.K. and Gupta P.C. General Applied Ichthyology.
3. Srivastava, C.B.L. A. textbook of Fishery Science and Indian Fisheries.
4. Lagler et. Al. Ichthyology
5. Norman, J.R. A History of Fishes.
6. Kyle, H.M.A. Biology of Fishes
7. Khanna, S.S. An Introduction to Fishes.

ZOO 570: Fish & Fisheries

UNIT I

Marine fishery: Important coastal fishery resources and fish landing in relation to different maritime states of India. Productivity of west coast and east coast, Problems of inshore fishery, off shore and deep sea fishery

UNIT II

Ecology of sea, Exclusive Economic Zone (EEZ) Fishery of Sardine, Mackerel
Past, present and future prospects of marine fishery in India

UNIT III

Inland Fishery: Inland capture fishery resources of India, Important riverine systems and their fishery.

Present and future prospects of cold water fishery of India

UNIT IV

Estuarine Fishery: Ecology of estuary, Present and future prospects of estuarine fishery of India

UNIT V

Crafts and Gears : Important traditional and modern crafts used for fish catch in inland and marine water, Conventional and unconventional fishing methods used in inland and marine sector

Age and growth determination

Methods and principles of fish preservations, development of fish bye - products

Suggested Readings:

1. Jhingran, V.G. Fish and Fisheries of India.
2. Bardach. Aquaculture.
3. Aggarwal, S.C. Fishery Management.
4. Govindan, T.K. Fish Processing Technology.
5. Beavan, C.R. Handbook of Freshwater fishes of India.
6. Bal and Rao, Marine Fisheries.

ZOO 571: Fish & Fisheries

UNIT I

Aquaculture: Definition, types, resources and cultivable fish and non-fish organisms, including sea-weeds Current and future prospects of aquaculture in India

Basic principles of aquaculture

Mariculture: Important cultivable organisms

UNIT II

Inland culture: Principal methods used in fish culture: composite fish culture, air-breathing fish culture, Integrated fish farming, cage.

UNIT III

Pond preparation: Brooder, nursery, rearing and stocking ponds

Management of pond : Pond preparation, use of fertilizers, aquatic vegetation and their control, eradication of weed and predatory fishes as well as aquatic insects, supplementary feeding, physico-chemical and biological factors, control of algal blooms and swarms.

UNIT IV

Carp seed raising: Natural spawning and seed collection of fish seeds, technique of induced breeding, natural and synthetic drugs for fish breeding.

UNIT V

Freshness of fish: Features of raw fish, decomposition of fish, state of rigor mortis,

Fish diseases and their control.

Suggested Readings:

1. Jhingran, V.G. Fish and Fisheries of India.
2. Bardach. Aquaculture.
3. Aggarwal, S.C. Fishery Management.
4. Govindan, T.K. Fish Processing Technology.
5. Beavan, C.R. Handbook of Freshwater fishes of India.
6. Bal and Rao, Marine Fisheries.

Cell Biology

ZOO 575: Cell Biology

UNIT I

Molecular organization of eukaryotic chromosomes; Chromosome compaction (Nucleosome, solenoid); Organization and significance of heterochromatin.

UNIT II

Cell signaling:

Signaling through membranes receptors (G protein coupled receptors, Receptor Tyrosine kinase) ; intracellular receptors (signaling of steroid molecules)

UNIT III

Communication between cells and their environment: Interaction of cells with extracellular matrix and other cells; Integrin, selectins and cadherins

UNIT IV

Cytoskeleton: structure and dynamics of microfilaments, intermediate filaments and microtubules

UNIT V

Cell cycle and its regulation; Cell aging

RECOMMENDED BOOKS

1. Molecular Biology of the Cell: By Lodish
2. Cell and Molecular Biology: Concepts and Experiments : Gerald Karp (7th Edition)
3. Essentials of Cell Biology: Alberts et al
4. Lehninger Principles of Biochemistry: Nelson and Cox

ZOO 576: Cell Biology

UNIT I

Bioenergetics: Laws of energy changes (concept of entropy, free energy), Redox couples, coupled reactions.

UNIT II

Special cell function:

Immunocompetent cells; Differentiation of B lymphocytes and humoral immune response, Differentiation of T lymphocytes and cellular immune response; Antigen Processing and Presentation, Antigen presenting cells, Major Histocompatibility Complex (MHC), MHC Restriction of Lymphocytes.

UNIT III

Polyclonal antibody, Types, structure and function; antibody diversity

UNIT IV

Monoclonal antibody, hybridomas; Function of monoclonal antibody

UNIT V

Cancer: Molecular Biology of cancer, tumor suppressor genes and oncogenes

RECOMMENDED BOOKS

1. Kuby Immunology: JA Owen, SA, Stranford, PP Uones.
2. Cell and Molecular Biology: Concepts and Experiments : Gerald Karp (7th Edition)
3. Essentials of Cell Biology: Alberts et al
4. Lehninger Principles of Biochemistry: Nelson and Cox

ZOO 577: Cell Biology

UNIT I

Tools and Techniques of cell Biology Microscopy

Principles of light and electron microscopy Tissue preparation:

Fixation of tissue for paraffin and cryocut sectioning and electron microscopy:

Tissue embedding (Paraffin and epoxy resin) Tissue sectioning (Rotary and ultra microtome)

UNIT II

Histochemical techniques for detection of carbohydrates, lipids, proteins,

Techniques for detection of special cells: Neuronal staining: Cresyl violet and Silver Impregnation staining (Golgi Cox)

UNIT III

Immunocytochemistry/ Immunohistochemistry

Light microscopic immunocytochemistry, Direct and Indirect Method

Fluorescence and Enzymatic Method Antigen Retrieval

UNIT IV

Immunolectron microscopy: Nano-gold immunoprobe and Protein A-gold immunocytochemistry

Applications of Immunocytochemistry/Immunohistochemistry.

UNIT V

Cell culture: Detection of apoptotic and necrotic cells (AO/EB staining)

Suggested Readings:

1. Owen, J.A. Stranford, S.A. and Uones, P.P. Kuby Immunology
2. Cell and Molecular Biology:
3. Karp, G. (7th Ed.) Concepts and Experiments
4. Alberts et al. Essentials of cell Biology
5. Lehninger Principles of Biochemistry: Nelson and Cox

ZOO 578: Project// Seminar

Presentation ZOO 536-542:

Lab course/Practical

Environmental Biology

ZOO 572: Environmental Biology

UNIT I

Air pollution, effect and control Pollution indicators, Saprobian Index

UNIT II

Water pollution sources, effect and control, Water quality criteria standards.

Physico-chemical and biological monitoring of water quality

UNIT III

Marine pollution; sources, effect and control Soil pollution: source, effect and control

UNIT IV

Biodegradation of pesticides, Bio-geochemical cycle of pesticides Hazards of pesticide pollution

UNIT V

Noise pollution: sources, effect and control Radioactive pollution: Sources, effect and control Bio-concentration & Bio-magnification

Indian legislation for pollution control.

Suggested Readings:

1. Elements of Ecology, Clarke.
2. Ecology, Eugene P. Odum, 1965. Amerind Publishin, New Delhi
3. Ecology with Special reference to Animal and Man. S. Charles Kendeigh.
4. Principles of Animal Ecology: Allee, Emeroon, Park and Schmidt
5. Ecology. C.J. Krebs.
6. Ecology 2000. Eds. Edmond Hillary. London Michael Joseph. 1984

ZOO 573: Environmental Biology

UNIT I

Diversity of environmental habitats Animal resource management

UNIT II

Vermiculture

Forest management (policies and problems) Wetland and Wasteland management

UNIT III

Integrated pest management

Biological control with the help of natural enemies

UNIT IV

Soil monitoring and management Management of soil erosion

UNIT V

Recycling of non- degradable substances

Role of NGO's in Environmental Management and Conservation Basic knowledge of use of computer in Environmental Management.

Suggested Readings:

1. Clarke, Elements of Ecology.
2. Odum, E.P. 1965 Ecology, Amerind Publishing, New Delhi
3. Kendeigh, S.C. Ecology with Special reference to Animal and Man
4. Allee, Emeroon, Park and Schmidt, Principles of Animal Ecology.
5. Krebs. C.J. Ecology
6. Joseph, M. 1984. Ecology 2000 (Edmond Hillary. London)

ZOO 574: Environmental Biology

UNIT I

Environmental management of agricultural land, urban land, rural land and forest land

UNIT II

Land use classification and practices Land use planning and management

UNIT III

Environmental impact assessment

Purposes of environmental assessment methods

UNIT IV

Environmental monitoring: purpose of monitoring, trend monitoring, ambient source-linked monitoring, Monitoring activities and directions, design and applications

UNIT V

Sensors and methods

Role of remote sensing in environmental management.

Suggested Readings:

1. Elements of Ecology, Clarke.
2. Ecology, Eugene P. Odum, 1965. Amerind Publishin, New Delhi
3. Ecology with Special reference to Animal and Man. S. Charles Kendeigh.
4. Principles of Animal Ecology: Allee, Emeroon, Park and Schmidt
5. Ecology. C.J. Krebs.
6. Ecology 2000. Eds. Edmond Hillary. London Michael Joseph. 1984