



Centre for Vocational Studies & Skill Development

C.M.P. Degree College (University of Allahabad, Prayagraj)

[Home](#)[About Us](#)[Course Details](#)[Admission Procedures](#)[General Rules](#)[Contact](#)

Course Details

| S.No | Name of Course | Department | Seats | Duration (In hrs.) | Course fee in Rs. | Link |
|------|---|----------------------|-------|--------------------|-------------------|----------------------------|
| 1 | Certificate course in Android Apps Development | Computer Application | 20 | 120 hrs. | 7500/- | Click Here |
| 2 | Certificate Course in Mushroom Cultivation | Botany | 40 | 105 hrs. | 2000/- | Click Here |
| 3 | Certificate Course in Herbal Gardening and Organic Farming | Botany | 40 | 105 hrs. | 2000/- | Click Here |
| 4 | Certificate Course in Human Rights and Humanitarian Action | Political Science | 30 | 30 hrs. | 1500/- | Click Here |
| 5 | Certificate Course in Spoken English and Personality Development | English | 50 | 45 hrs. | 1000/- | Click Here |
| 6 | Certificate Course in Personality Development and Stress Management | Psychology | 40 | 45 hrs. | 2000/- | Click Here |

| | | | | | | |
|----|--|----------------------|----|----------|--------|----------------------------|
| 7 | Certificate Course in Banking, Finance and Insurance (CPBFI) in collaboration with Bajaj Finserv | Commerce | 50 | 100 hrs. | 1000/- | Click Here |
| 8 | Certificate Course in Computerized Accounting | Commerce | 30 | 100 hrs. | 2000/- | Click Here |
| 9 | Certificate Course in Urdu | Urdu | 20 | 45 hrs. | 1000/- | Click Here |
| 10 | Certificate Course in Communicative English for Legal Professionals | Law | 40 | 80 Hrs. | 3000/- | Click Here |
| 11 | Certificate Course in Basics in Research | Education | 50 | 60 Hrs | 1000/- | Click Here |
| 12 | Certificate Course in Diagnostic Laboratory Techniques | Zoology | 30 | 90 hrs. | 3000/- | Click Here |
| 13 | Certificate Course in Vedic Culture, Literature, Religion, Philosophy & Values | Philosophy | 20 | 45 hrs. | 1000/- | Click Here |
| 14 | Certificate Course in Yoga and Meditation | Philosophy | 30 | 60 hrs. | 1200/- | Click Here |
| 15 | Certificate Course in Computer Hardware and Networking | Computer Application | 20 | 60 hrs. | 2500/- | Click Here |

| | | | | | | |
|----|--|---------|----|----------|--------|----------------------------|
| 16 | Certificate Course in Vermiculturing and Vermicomposting of Biowaste | Zoology | 40 | 75 hrs. | 1500/- | Click Here |
| 17 | Short-Term Course in Microbial Biotechnology | Botany | 30 | 100 hrs. | 3000/- | Click Here |

Awareness/Certificate Courses (Mandatory)

| S.No | Name of Course | Department | Seats | Duration (In hrs.) | Course fee in Rs. | Link |
|------|--|------------|--|---|-------------------|----------------------------|
| 1 | Certificate Course in Water Literacy (1. General Certificate Course in Water Literacy; 2. Advanced Certificate Course in Water Literacy) | Chemistry | Compulsory (General) 50 Seats (Advanced) | 30 hrs. (for General); 3 Months for Advanced) | NIL | Click Here |
| 2 | Certificate Course in Energy Literacy | Physics | Compulsory | 30 hrs. | NIL | Click Here |
| 3 | Certificate Course in Environmental Literacy | Botany | Compulsory | 30 hrs. | NIL | Click Here |

Details of Special Courses

| S.No | Name of Course | Department | Seats | Duration (In hrs.) | Course fee in Rs. | Link |
|------|---|---|-------|--------------------|-------------------|----------------------------|
| 1 | GS Foundation Course for Civil Services | Centre for Vocational Studies & Skill Development | 100 | 150 hrs. | 3000/- | Click Here |
| 2 | Crash Course for CSIR-UGC NET in Life Science | Botany | 100 | 90 hrs. | 5000/- | Click Here |



Centre for Vocational Studies
and Skill Development
C.M.P Degree College
(University of Allahabad)
Prayagraj

Brochure (Information and Guidelines)
Helpdesk Email: botanydeepakgond@gmail.com
Helpdesk No. 9506088366

ABOUT THE COLLEGE

The college was established in the year 1950 with a vision to contribute to the national development by providing quality education. The college is a co-educational institute and it has been associated to the University of Allahabad since its establishment and it became Constituent College of the University of Allahabad in 2005 when the central status of the university was restored. The college has highly qualified and experienced faculty; good quality of staff with excellent infrastructure facility and three huge campuses in the city.

CENTRE FOR VOCATIONAL STUDIES AND SKILL DEVELOPMENT

CMP Degree College (A Constituent Postgraduate College of the University of Allahabad) has established a Centre for Vocational Studies and Skill Development which aims to create a large pool of trained personnel to address vital skill development gaps in our country, crucial for economic growth and self-sufficiency.

OBJECTIVE

The main objective of the Centre for Skill Development is to offer various Vocational Studies and skill development courses so as to provide the students to improve their employability and promote entrepreneurship. The courses offered also contribute to strengthen the managerial and technical knowledge of the students so as to elevate their standards socially and economically.

Deepak Kumar Gond
Convener
C.M.P. Degree College

COURSE DETAILS

Programme, Course, Duration, Eligibility, No. of Seats and Fee Structure Details

| S.No. | Programme | Course | Duration | Eligibility | Seats | Fee Structure |
|-------|-------------|--------------------------------------|-------------------------|---------------------------------|-------|---------------|
| 1. | Certificate | Herbal Gardening and Organic Farming | 3 months (twice a year) | 10 th Pass and above | 40 | Rs.3000 |

Note:

1. Above course will be started only when minimum 75% of the number of seats given is admitted otherwise that course will not be started, in this case the fees deposited by the students will be fully refunded.
2. Keeping in mind the requirements of any course, 10% of the classes can also be conducted in online mode.

For detailed information please visit the institute's website: <https://cmpcollege.ac.in>

AVAILABILITY OF RELEVANT INDUSTRY

Himalaya
Patanjali
Dabour
Baidyanath
Nature Bio Foods Ltd
Geo-Fresh Organic
Bansi Gir Gauveda
Ambrosia Organic Farm
Elworld Agro & Organic Foods

JOB TYPES

Entrepreneur / Self-employed
Herbal Expert
Agro Expert
Organic Farm Trainee Supervisor
Marketing Intern

SYLLABUS

Deepak Kumar
Convener
M.P. Degree College, Prithvi

Module-1: HGOF-01 Gardening: Techniques

1. Introduction. History, Scope, and objectives of gardening.
2. Style of gardens: Formal, Informal.
3. Components of Herbal Garden, Planning of outdoor gardens: Small, Residential, Larger Home Garden, Roof Garden, Terrace Garden, School and Institutional and Indoor gardening.
4. Garden Features and Ornamentation.
5. Principles of landscape design, elements, planning and layout.
6. Plant material for landscaping, symbols and tools.
7. Landscape design for specific areas: residence, commercial buildings, educational institutes.
8. Selection of Medicinal Plant according to Places.

Module-2: HGOF-02 Organic Farming & Skills and Practices

1. Introduction: Farming, organic farming, concept and development of organic farming.
2. Principles of organic farming & need for organic farming, Agencies and institutions related to organic agriculture.
3. Scope and Present state of organic farming.
4. Types of organic farming, Biodynamic farming, Benefits of organic farming.
5. Bio-fertilizers-methods of application, advantages and disadvantages
6. Botanical pesticides.
7. Organic crop production methods- vegetables & Fruits, spices-cardamom and ornamental crops.
8. Entrepreneurship Development.
9. Current Government schemes related to organic farming.

Module-3: Practical course based on HGOF-01

1. Field surveys for familiarization with local plants.
2. Collection of specimens.
3. Familiarized the garden tools and implements mentioned
4. Trained to do Cutting/ layering/ grafting/ budding
5. Trained in the preparation of manures and fertilizer

Module-4: Practical course based on HGOF-02

1. Demonstration of Organic Farming
2. Preparation of Soil.
3. Propagation-seed, planting materials methods
4. Water management.



5. Bio-fertilizers-methods
6. Weed management.
7. Organic crop production methods.
8. Livestock Management in organic farming

Module-5: Garden/Industrial visit

1. One-day visit to Herbal Garden and Organic farming site.
2. Exposure to the field and market.

ADMISSION PROCEDURES

THE ADMISSION FOR THE ACADEMIC SESSION 2022-23 SHALL BE DONE STRICTLY ON THE BASIS OF FIRST COME, FIRST SERVED BASIS ONLY.

Registration Form: All the procedures regarding admission will be done online mode.

Last Date:

- (I) The last date for the online form submission is **5/8/2022**. No form shall be entertained after the last date.
- (II) The name of the selected candidates shall be announced on **20/9/2022**.
- (III) The last date for the online fee submission is **15/9/2022**.

DOCUMENTS TO BE PRESENTED AT THE TIME OF ADMISSION

(Without these documents applicant's claim will not be entertained):

- (a) Self attested photocopy of mark-sheet and certificate of High School or equivalent examination.
- (b) Self attested photocopy of mark-sheet and certificate of Intermediate or equivalent examination mark-sheet and Certificate.
- (c) Self attested photocopy of Identity Card (for regular student of CMP Degree College).

GENERAL RULES FOR STUDENTS



- The students whose attendance in the prescribed subjects of study, seminar, classes and computer training or any other course prescribed in the course falls short of the required 75% shall not be allowed to appear in the examination.
- Students will have to abide by the rules and regulations of the Centre for Vocational Studies and Skill Development, CMP Degree College (A Constituent Postgraduate College University of Allahabad, Prayagraj).
- Students must note that they should not indulge in ragging in or outside the premises of the College. In case of any complaint of ragging, the student complained against will face immediate suspension, enquiry and punishment which may extend up to expulsion from the College and lodging of criminal proceedings.
- Students must behave properly in and outside the classes. Any students, who misbehaves, indulges in misconduct and indiscipline, uses unfair means in the examinations shall be strictly dealt with as per rules.
- Chewing of Tobacco, Pan-Masala, Gutkha etc. and smoking or indulging in any kind of intoxication in or outside the campus shall be dealt with strictly.

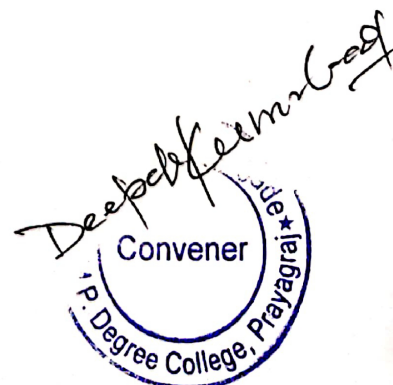
FOR THE CONVENIENCE OF THE APPLICANTS

Help Desk Details

Helpdesk No.:+91-9506088366

Helpdesk Email: botanydeepakgond@gmail.com

10:00 AM to 05:00 PM (All working Days)





Centre for Vocational Studies & Skill Development C.M.P. Degree College

(A Constituent PG College, University of Allahabad)

M.G. Marg, Prayagraj-211002

Website: cmpcollege.ac.in

SHORT-TERM CERTIFICATE COURSE

Name of Course : Certificate Course in Mushroom Cultivation

Course Code : MCT

Course Category : Skill Development

Department : Botany

Description of the Course: (150 words): Mushrooms are healthy food and their demand is increasing day by day due to the changing food habits, demand for quality food, urbanization, and globalization. As our cultivable land is shrinking, traditional agriculture is proving to be non remunerative and our farmers want sustainable additional on farm income. Therefore, to ensure that our farmers get good and sustainable income, there is a need for diversification in agriculture, value addition, and marketing of farm produce. Mushroom cultivation is a novel component of agriculture that can be easily integrated with the farming system to enhance the income of the farmers or can be taken up as an independent activity on a commercial scale. Mushrooms are not only quality food but also a way of utilizing agricultural wastes and generating wealth from the waste. Returns and productivity in mushroom cultivation are very high because of the vertical nature of its farming. The vocation of Mushroom Production is getting popular tremendously over the last few years. It is one of the few professions that require less labour and can be taken up as a profession by men and women, young and old, both literate and illiterate. As there are less initial investments and quick returns, hence families and unemployed youth can be encouraged to adopt this vocation.. The foremost aim of this course is to promote self-employment. The course components comprise theory and practical components covering important topics such as spawn production, cultivation of button



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mushroom, oyster mushroom, paddy straw and milky mushroom and management of insect pest and diseases of mushroom, value addition, entrepreneurial skills and health and safety at workplace etc.

This course offers a comprehensive hands-on training for learning the basics with an insight to laboratory practices along with exposure to "lab-to-land" transfers.

Objective of the Course: (150 words)

1. Dissemination of knowledge for Lab to Land
2. Basic and applied training in the subject for development of skills for a successful career in entrepreneurship.
3. Generate technically trained human resource as instructors in schools and junior colleges.
4. To understand the history of mushroom cultivation and also the benefits of growing of mushrooms to the farmers and environment;
5. Advantages of consuming mushrooms as a health food.
6. Summaries basic steps in mushroom cultivation.
- 7.

Outcome Of the Course (150 words):

1. The course will be a value-added course for each and every person of society.
2. To start as Entrepreneurs in Mushroom Cultivation and can establish their own labs.
3. Researchers or interested trainees can also be able to cultivate medicinally as well as more economically important mushrooms.
4. Mushroom production will improve the socio-economic status and solve the employment problems of rural economy by generating income and job opportunities.
5. Use of Agriculturally waste as substrate mostly waste material from farms, plantations and factories.
6. Mushroom is rich in protein and contains all essential amino acids, amides, lycine, calcium, folic acid etc.
7. Consumption of mushrooms slows down the spread and effect of cancer, and heart diseases and also boosts the immune system.



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Outline of the Course

| S.No. | Course Modules | Title | Hours |
|--|----------------|---|----------|
| 1. | TMCT-1 | Button Mushroom Cultivation: Techniques (T) | 12 hrs |
| 2. | TMCT-2 | Oyster Mushroom Cultivation: Techniques (T) | 12 hrs |
| 3. | TMCT-3 | Milkey Mushroom Cultivation: Techniques (T) | 11hrs |
| 4. | PMCT-1.1 | Practical course based on MCT -1.1 | 30 hrs |
| 5. | PMCT-2.1 | Practical course based on MCT -2.1 | 20 hrs |
| 6. | PMCT-3.1 | Practical course based on MCT -3.1 | 20 hrs |
| 7. | VMCT | Laboratory/Industrial visit | Two days |
| Theory/Lecture Hours: | | | 35hrs |
| Practical/Tutorial/Field Study Hours: | | | 70hrs |
| Total Hours: | | | 105hrs |

Details of Course Modules:

Module I: Basic theory of Mushroom Cultivation Techniques

TMCT-1.1: Mushroom Cultivation Techniques

- Introduction. History. Scope. Advantages. Applications. Limitations.
- Guidelines for establishing academic and commercial laboratory.
- Mushrooms- An Agri-business.
- Nutritional and medicinal value of mushrooms.
- Competitor moulds/fungal and viral diseases of mushrooms.
- Bacterial diseases and abiotic disorders of mushrooms.



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- Insect, pests & nematodes of mushrooms and their management
- Uses and/or disposal of spent mushroom substrate.
- Postharvest handling, value-addition and marketing of mushrooms.
- Round the year cultivation of mushrooms.
- Financial assistance from Banks for mushroom project.
- Sources of information for various inputs and guidance on mushroom cultivation.

Module-2: TMCT 1.2 Button Mushroom Cultivation Techniques:

- Preparation of pure culture and preservation techniques in mushrooms.
- Instrumentation and culture preparation of spawn and its storage.
- Formulations and recent advances in compost production for button mushroom.
- Recent advances in crop management of white button mushroom.
- Farm-design and infrastructure for a commercial mushroom growing unit.
- Economics of button mushroom cultivation under controlled conditions

Module-3: TMCT-2.1: Oyster Mushroom Cultivation Techniques(11L)

- Introduction: Cultivation of oyster mushroom (*Pleurotus* spp.).
- Spawn production technology.
- Mushroom Substrate selection, Substrate soaking, pasteurization, bagging, spawning, incubation and harvesting. Pest and diseases of mushrooms and their management.
- Farm designing and infrastructure for a commercial mushroom growing unit.
- Economics of oyster mushroom cultivation under controlled conditions.

Module-4: TMCT-3.1: Cultivation & economics of milky mushroom (*Calocybe indica*)

- Introduction: Cultivation of milky mushroom.
- Spawn production technology.
- Mushroom Substrate selection, Substrate soaking, pasteurization, bagging, spawning, incubation and harvesting. Pest and diseases of mushrooms and their management.
- Casing and crop management in Milky mushroom
- Farm designing and infrastructure for a commercial mushroom growing unit.
- Economics of oyster mushroom cultivation under controlled conditions



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Module-5: Hands on training in basic Mushroom Cultivation Techniques

PMCT-1.1, 1.2, 2.1, 3.1: Practical of Mushroom Cultivation:

1. Handling and Instrumentation for Mushroom Cultivation.
2. Glassware Washing & Sterilization Techniques.
3. Preparation of nutrient media.
4. Surface sterilization.
5. Mushroom Culture preparation
6. Mushroom Spawn production
7. Compost preparation for white button mushroom
8. Substrate preparation for oyster mushroom
9. Substrate preparation for Milky mushroom
10. Casing and crop management in button mushroom.
11. Casing and crop management in Milky mushroom
12. Diseases /mould/insect pests, their identification and management
13. Post-harvest handling and value addition of mushrooms.
14. Video film on mushroom cultivation/ harvesting/ processing.

Module 6: Exposure to the industrial and lab setup

VMCT 3: Visit to the mushroom farm. of one day.

Course Coordinator : Dr. Alok Kumar Singh

Course Co-Coordinator : Dr. Yashwant Kumar

(if any)

Course Office : Department of Botany

(Dr. Yashwant Kumar)
(Signature with Name)

Course Co-Coordinator
MUSHROOM CULTIVATION
Department of Botany
C. M. P Degree College
Prayagraj

(Dr. Alok Kumar Singh)
(Signature with Name)

Course Coordinator
MUSHROOM CULTIVATION
Department of Botany
C. M. P Degree College
Prayagraj

COURSE DESIGN

The College offers two types of Awareness/Certificate Courses in Water Literacy

1. **General Awareness/Certificate Course in Water Literacy**
(Mandatory for all students of UG first year, PG first & third-semester, and Ph.D.)-
Course Duration: 30 hrs.
2. **Advanced Awareness/Certificate Course in Water Literacy**
(Field-based Study)- 50 Seats;
Course Duration: 3 Months

REGISTRATION IN THE COURSE

Online registration is open and free for the course. Students can register for the course at college website under the Centre for Vocational Studies and Skill Development portal.

Link of the Registration:
<https://skilldevelopment.cmpcollege.ac.in/index.php/course-details>

CERTIFICATE OF THE COURSE

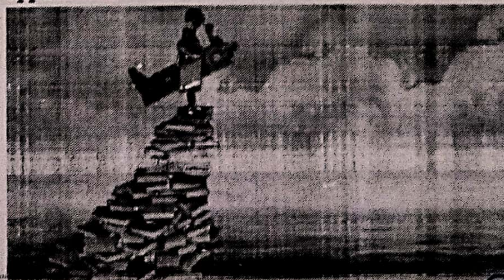
1. **General Awareness/Certificate Course in Water Literacy**
E-Certificate shall be provided after successful completion of the course. Evaluation shall be based on an online awareness quiz. Those students who scores more than 50% marks shall be entitled for the E-Certificate.
2. **Advanced Awareness/Certificate Course in Water Literacy**
Certificate shall be provided after successful completion of the course. Those students who submits the field-based study report after completing the course shall be awarded certificate.

DEPARTMENT OF CHEMISTRY

Department of Chemistry has 19 teaching and 9 non-teaching staff. The research areas in which work is being pursued are in the field of Water, Synthetic Organic Chemistry, Polymeric Materials, Solar cell, and Coordination Chemistry, Materials Chemistry, Supra-molecular Chemistry and Medicinal chemistry. Faculty members of the Department have undertaken projects worth Rs. 1.1 Crore from various funding agencies like UGC, DST, CSIR, etc.

ABOUT WATER LITERACY

A crucial step towards attaining water sustainability and social water equality is building a solid, multidisciplinary, ubiquitous base of water knowledge among all water users. An educated and involved citizenry requires knowledge of the cognitive, affective/emotional, and behavioral domains of water, according to educational psychology. This aligns with the learning objectives outlined by the Education for the Sustainable Development Goals (ESDGs). Therefore, water literacy is the culmination of water-related knowledge, attitudes, and actions, distinguishing it from other more often used terms like ecological or environmental literacy and highlighting its significance. Water literacy is being used more and more, although the definition, implementation, and evaluation of the idea vary greatly depending on the application.



BROCHURE

Registration for

Awareness/Certificate Course
in

WATER LITERACY

2022-23



Department of Chemistry
C. M. P. Degree College
University of Allahabad
Prayagraj -211 002 (INDIA)



What is
Water
Literacy?

"Water Literacy means knowing realization of where your water comes from and how you use it."

Pramod Kumar
Chemistry Deptt.
C.M.P. Degree College.



THE THEME OF WATER LITERACY

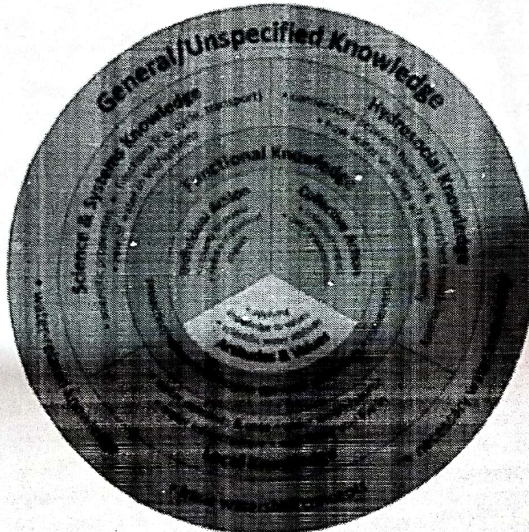
Water literacy, or the culmination of water-related information, attitudes, and behaviors, is a relatively new area of research that is becoming increasingly significant for social water equality and sustainable water management. Its usage and definition, nevertheless, vary widely and often in current literature. In light of this, we propose a fresh, all-encompassing framework for water literacy to direct a more broad-based, useful use of the idea. We looked at previous research on water knowledge, attitudes, and behaviors in student and adult populations using the framework, and we compiled global water literacy levels and knowledge gaps. We advocate the use of a variety of strategies, including better graphics, place-based learning, multidisciplinary curriculum, and reflective and iterative creation of future water literacy programmes, to overcome knowledge gaps.

MAJOR AREAS OF STUDY

- Water Quality and Life Expectancy
- Water footprint
- Types of water pollutants and its effects on environment
- Addressing, Assessing and Improving Water Security
- Cultural Values in Water Management and Governance
- Water related diseases
- Sources of water in Prayagraj- related problems and remedies
- Conservation of water including traditional methods
- Innovative idea on any water related issues like popularization/development of filter/water purification/conservation etc.

DEVELOPMENT OF A WATER LITERACY FRAMEWORK

- Science and systems knowledge
- Local knowledge
- Hydro-social knowledge
- Functional knowledge



COURSE MODULE

1: Water and development

(Relation of water with social, cultural, economic, physical and democratic development, impact on each other and current challenges)

2: Water Pollution

Purity - the standard of impurity, source. Identification methods, techniques and their practical knowledge. Side effects of water pollution and Water Quality Management (Policy and Technical Aspects)

3: Group Based Field Work (Only for Advanced Certificate Course Students)

Overall study of a pond/well/lake/small river, planning his restoration.

or

Prepare a water management plan of a village/small town and hand it over to the college and the concerned gram panchayat/town committee or local administration.

OBJECTIVES OF WATER LITERACY

- To make students and youth aware and educated about the significance of water, its resources, preservation and purity.
- To form a permanent unit of literacy by connecting selected students and teachers in CMP College.
- Repair of at least one pond by a batch either clearing a lake or (It would be better if this work can also be made such a necessary task for the participants of the course, on completion of which the concerned participant should be given a water literacy course certificate in the hands of a special person with a mention of special appreciation; otherwise part of the follow-up program so be it)
- To play the role of nodal college by CMP College to connect selected teachers interested in other schools/colleges for spreading water literacy work.
- A big seminar by the college And A series of talks on water issues in small groups in village panchayats and schools by the participating students at their convenience.
- To present itself as a water model college by CMP College through rainwater harvesting, disciplined and reuse of water in the campus.

Coordinator:

Dr. Pramod Kumar

Co-coordinator:

Dr. Deepanjali Pandey

Dr. Ranjeet Kumar

Dr. Babita Agrawal

Prof. Ajay Prakash Khare

Convener

Principal

Pramod Kumar
Chemistry Deptt.
C.M.P. Degree College.

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Awareness/Certificate Course in Water Literacy

Unit/ Module No.: 1

Unit/ Module Title: Water Literacy

Description of Course:

AWARENESS/CERTIFICATE COURSE IN WATER LITERACY

Water literacy, or the culmination of water-related information, attitudes, and behaviors, is a relatively new area of research that is becoming increasingly significant for social water equality and sustainable water management. Its usage and definition, nevertheless, vary widely and often in current literature. In light of this, we propose a fresh, all-encompassing framework for water literacy to direct a more broad-based, useful use of the idea. We looked at previous research on water knowledge, attitudes, and behaviors in student and adult populations using the framework, and we compiled global water literacy levels and knowledge gaps. We advocate the use of a variety of strategies, including better graphics, place-based learning, multidisciplinary curriculum, and reflective and iterative creation of future water literacy programmes, to overcome knowledge gaps.

The course covers the following major areas of awareness/study;

- Water Quality and Life Expectancy
- Water footprint
- Types of water pollutants and their effects on the environment
- Addressing, Assessing and Improving Water Security
- Cultural Values in Water Management and Governance
- Water-related diseases
- Sources of water in Prayagraj- related problems and remedies
- Conservation of water including traditional methods
- Innovative ideas on any water-related issues like popularization/development of filters/water purification/conservation etc.

The College offers two types of Awareness/Certificate Courses in Water Literacy:

1. General Awareness/Certificate Course in Water Literacy (Mandatory for all students of UG first year, PG first & third-semester, and Ph.D.)- Course Duration: 30 hrs.

2. Advanced Awareness/Certificate Course in Water Literacy (Field-based Study)- 50 Seats; Course Duration: 3 Months

Course Module:

Lesson 1: Water and Development

(Relation of water with social, cultural, economic, physical and democratic development, impact on each other and current challenges)

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Lesson 2: Water Pollution

(Purity - the standard of impurity, source. Identification methods, techniques and their practical knowledge. Side effects of water pollution and Water Quality Management (Policy and Technical Aspects)

Lesson- 3: Group-Based Field Work (Only for advanced certificate course students)

(Overall study of a pond/well/lake/small river, planning his resurrection, or Preparing a water management plan of a village/small town and handing it over to the college and the concerned gram panchayat/town committee or local administration.)

Objective of Course:

MAJOR OBJECTIVES OF WATER LITERACY

- To make students and youth aware and educated about the significance of water, its resources, preservation and purity.
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- To present itself as a water model college by CMP College through rainwater harvesting, disciplined and reuse of water in the campus.



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6

Total Courses

5634

Student Bookmarked



Course Rating

Add to bookmark

Lessons:

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[Lesson-1: Water and Development](#)

[Lesson-2: Water Pollution](#)

[Lesson-3: Group-based Field Work \(Only for Advanced Certificate Course\)](#)

[Ask Question to Teacher](#)

[Go to Discussion Page](#)

Rate this course



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2022-23

Certificate Programme in Banking, Finance and Insurance (CPBFI)

RELEVANT DOCUMENTS:-

3. NAME OF THE PROGRAMME (YEAR WISE)

Certificate Programme in Banking, Finance and Insurance (CPBFI)

2. DURATION OF THE COURSE (NOT LESS THAN 30 HRS):

96 hours

Binesh W. Panty

Coordinator
Centre for Skill Development
C.M.P. Degree College
Prayagraj

4. CURRICULUM

CPBFI (Certificate Program in Banking, Finance and Insurance) is a customized training programme conducted by Bajaj Finserv for graduates across India. CPBFI aims to make these graduates employable for the Banking, Financial Services and Insurance (BFSI) sector. CPBFI is a 96-hour training programme designed by Bajaj Finserv in collaboration with industry experts, educational institutes and a leading mental health institute.

| S.No. | Programme | Course | Duration | Eligibility | Seats | Fee Structure |
|-------|-------------|--|----------|------------------------------|-------|---------------|
| 1. | Certificate | Banking, Finance and Insurance (CPBFI) in collaboration with Bajaj Finserv | 96 Hrs. | Final year students of UG/PG | 50 | Rs. 1000 |

MODULES COVERED DURING THE TRAINING:

a. 24 hours of Banking

| |
|------------------------------------|
| Introduction to Banking |
| Introduction to Branch Banking |
| Customers and Their Needs |
| Overview of Banking Products |
| Liability Products |
| Asset Products |
| Third Party and Fee-based Products |
| Business Development |
| Transaction Processing |
| Customer Service |

b. 24 hours of Insurance

| |
|----------------------------------|
| Need for Insurance |
| Evolution of Insurance |
| Overview of an Insurance Company |

Binender Parkh

Coordinator
Centre for Skill Development
C.M.P. Degree College
Firozpur

| |
|---|
| Overview of Retail Insurance Products |
| |
| Overview of Insurance Distribution Channels |
| Selling Insurance |
| Insurance Operations |
| Customer Service |
| Profitability Drivers for Insurance |

c. 36 hours of Communication Skills

| |
|-------------------------------------|
| What is communication |
| Goals and barriers in communication |
| Modes of communication |
| Listening skills and empathy |
| Non-verbal expression skills |
| Summarisation skills |
| Effective communication |

d. 12 hours of Swaroop. Swaroop is based on the concepts of psychology and addresses aspects such as self-awareness, confidence to take decisions, assertiveness, stress management, positive regulation of emotions, etc.

5. ASSESSMENT PROCESS

All assessment process will be taken by Bajaj Finserv after checking attendance and feedback by students.

Finally, a HR workshop and Interview will be taken by Bajaj Finserv.

6. SUMMARY REPORT WITH OUTCOMES:

A summary report on Certificate Programme in Banking, Finance and Insurance (CPBFI)

C.M.P. Degree College organized a course on Certificate Programme in Banking, Finance and Insurance (CPBFI) in collaboration with Bajaj Finserv. This CPBFI course started from 14th September 2022. The course covered all aspects of Banking, Finance and Insurance. The course covered 96 hours of learning through corporate trainers with 4 hours of training per day. 4 modules covered during the training:

- c. 24 hours of Banking by trainers by Bajaj Finserv.
- d. 24 hours of Insurance by trainers by Bajaj Finserv.
- e. 36 hours of Communication Skills by trainers by Bajaj Finserv.

Bravishu Paul
 Coordinator
 Centre for Skill Development
 C.M.P. Degree College
 Faridkot

f. 12 hours of Swaroop by trainers by Bajaj Finserv.
The course ended on 27th October, 2022. Fifty-three (53) students completed the course and certificate are distributed to them.

Outcome

The course was mainly intended to improve the overall knowledge of financial sector. The programme was successful in achieving following outcomes-

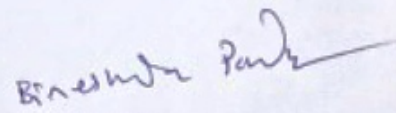
7. Improving overall communication and personality development of students.
8. Improving overall communication skills, debating skill and decision-making skill.
9. Improving overall financial knowledge such as banking and insurance sector.

7. MODEL CERTIFICATE ISSUED

It will be submitted soon.

8. ATTENDANCE SHEET

Attached


Coordinator
Centre for Skill Development
C.M.P. Degree College
P.O. No. 1234



Centre for Vocational Studies & Skill Development

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M.G. Marg, Prayagraj-211002

Website: cmpcollege.ac.in

SHORT-TERM CERTIFICATE COURSE

Name of Course : Certificate Course in_
Personality Development and Stress Management

Course Code :

Course Category : Skill Development/**Soft Skill**/Vocational

Department : **Psychology**

Description of the Course: (150 words) Our personality is the strongest aspect of our life. Personality of an individual develops as a result of interaction between individual's characteristics with the environmental factors. It is a unique way and specific pattern of thinking, feeling and behaving. Students grow in their life successfully if they have an impressive personality. This course is designed to help student understand the nature of their personality through theoretical and practical aspects. An attempt will also be made to help students understand the various ways in which their personality can be improved. One of the important dimension of personality is the ways in which we handle stress in our lives. In the technologically advanced world, stress enters in our lives from many sources, ranging from our day to day chores to the digital addiction. It is very important that we should not only identify various sources of stress in our lives, but also learn to deal with stress in an effective way. The present course will help us understand an in-depth understanding of the stress phenomenon, Hans Selye's contributions to stress description and



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differentiation, the physiology of stress, and various ways of active and defensive ways of coping with stress.

Objective of the Course: (150 words)

The course will have following objectives-

1. This certificate course on personality development and stress management will help students understand the nature of the personality and various ways of handling stress in life.
2. The course will address various ways in which personality can be groomed for success in life.
3. This course is designed to help individuals develop and implement effective strategies in dealing with stress at the personal or organisational level and manage stress in the workplace effectively.
4. This Stress Management course teaches participants to identify signs of stress and other mental health issues in individuals.
5. The course will also address issues related to the dangerous effects of stress in human life.
6. The course will be especially useful for those who are looking to develop techniques to manage stress effectively, who want to develop a balanced and stress-free culture and environment and helping individuals where stress is affecting their performance and their personality.

Outcome of the Course (including potential for employment generation): (150 words)

Personality Development and Stress Management course will give participants an access to the best of knowledge related to the topic of Personality and stress as it is dealt in Psychology and behavioural sciences. After completion of the course, the participants will not only get a theoretical knowledge about nature of personality and stress, its causes and ways of coping, but will also come to know about the effective and healthy ways of coping with the stress. Some of the important outcomes of the course are that students will know that personality can be changed and groomed for success in life. They will start coping better with challenges of life. Body become healthier and shows signs of good immunity. Work and efforts become more productive. Mood become more positive. People get along with others in an easier way and start to draw in other positive people and great opportunities which makes life even more fun and inspiring. Developing this soft skill not only makes a person healthy physically but also mental health becomes better. The students having a certificate course on Personality development and stress management will definitely make them more skilled in job market especially in corporate world or they can also become a good soft skill trainer and life coach.



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Duration of the Course : 3 Months
(in hours)

Frequency of Course : Once a year

Number of Seats : 40

Course Fee (INR) : 3,000/-

Eligibility for the Course : UG, PG and Ph.D students from all faculties

Outline of the Course

| S.No. | Course Modules | Title | Hours |
|--|----------------|------------------------------------|-------|
| 1. | I | Understanding Personality | 10 |
| 2. | II | Development of Personality | 10 |
| 3. | III | Nature and Understanding of Stress | 10 |
| 4. | IV | Stress and its impact | 10 |
| 5. | V | Coping with Stress | 10 |
| Theory/Lecture Hours: | | | 30 |
| Practical/Tutorial/Field Study Hours: | | | 20 |
| Total Hours: | | | 50 |

Details of Course Modules:

Module I- Understanding Personality- Concept, characteristics, person-environment fit, Brief theoretical background of personality, Success and failure. Handling failures, factors affecting failures, learning from failure. Personality Traits, Practical / activities on above topics

Module II- Development of Personality, Developing Effective Habits, Emotional Intelligence, Types of Personalities – Introvert, Extrovert & Ambivert person, Effective Communication & Its key aspects, Interpersonal Relationship, Good manners & Etiquettes, Netiquettes, Effective Speech, Understanding Body language, Attitude - Concept -Significance -Factors affecting attitudes –



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Positive attitude–Advantages –Negative attitude-Disadvantages. Practical / exercises on above topics.

Module III: Nature and Understanding of Stress- Hans Selye General Adaptation Syndrome and Model, Types of Stress- Eustress and Distress, Why people differ in their experiences of stress? The Subjective component of stress. Assessment of stress. Activities based sessions.

Module - IV: Stress and Its Impact- Sources of stress, Job, family and society, Burnout- concept and its impact on health, Physiological and Psychological impact of stress- behavioral, emotional and cognitive responses.

Module-V: Coping Mechanisms- definition of coping, Active Coping and Ego defensive Coping- Psychopathology and Coping Skills- an introduction. What is Stress management, Stress Management techniques. Activity sessions on coping - time management skills- time as a resource, utilizing time efficiently and aggression management.

Assessment of the Course: As per instructions from the Course Instructor

- A. Written Assessment
- B. Practical Assessment
- C. Viva-Voce Assessment

Budget Requirements of the Course

| Income | | | |
|--------------|--|-----------|-------------------|
| S. No. | Particular | Unit Cost | Amount (INR) |
| 1. | Course Fee | 3000 | 1,20,000 |
| Total | | | 1,20,000/- |
| Expenses | | | |
| S. No. | Particular | Unit Cost | Amount (INR) |
| 1. | Honorarium | | 16, 000/- |
| | a) Resource Person outside the institution (No. 16) | 1000/- | |
| | b) Resource Person within the institution (No. 10) | Nil | |
| | c) Course Coordinator | | |
| | d) Course Co-Coordinator (if any) | | 12,000/- |
| 2. | Course Materials (if any) | 500 | 20,000/- |
| 3. | Field Work/Field Study/Tutorial/Training/ Practical | - | 15,000/- |
| 4. | Tour & Travels | | 15,000/- |



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| | | | |
|--------------|---|--|----------------------------------|
| 5. | Contingency (including paper, stationary, printing, photocopying, etc) | | 5,000/- |
| 6. | Office Expenses a) Office Assistant (if any) b) Lab Technician (if any) c) Peon (if any) | | As per instructions from college |
| 7. | Course Establishment & Development Expenses (if any) | | 12,000/- |
| 8. | Miscellaneous | | 13,000/- |
| 9. | Overhead Charges payable to the College | | 12,000/- |
| Total | | | 1,20,000/- |

Instructions for Budget (not to be mentioned in the proposal):

1. Honorarium for Resource Person (outside the institution) shall be Rs. 1000/- per lecture.
2. Honorarium for Resource Person (within institution) shall not be payable without the prior approval of the Principal of the College and in that case the time spent in teaching/training of the course shall be counted in the work load at the department.
3. Honorarium of the Course Coordinator (including Co-Coordinator) shall not be more than 10 percent of the income from the course.
4. Overhead charges payable to the College shall be minimum 10 percent of the income from the course.

Other Requirements of the Course: (if any)

1.Nil

Course Coordinator : DR RUCHIKA VARMA, Assistant Professor, Department of Psychology

Course Co-Coordinator : NIL
(if any)

Course Office : As per college instructions

(Signature with Name)

Course Co-Coordinator


(Signature with Name)
Course Coordinator




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SHORT-TERM CERTIFICATE COURSE

| | | |
|------------------------|---|--|
| Name of Course | : | Certificate Course in Spoken English and Personality Development |
| Course Code | : | SEPD |
| Course Category | : | Soft Skill |
| Department | : | English |

Description of the Course:

English being the most common platform of communication and personality, needs to be made an integral part of speaking. Any language for communication should be well versed and spoken well. Thus, what is well spoken is understood well and carried out without flaw. English language holds a strategic place in the power of expression, medium of communication and grooming of personality so well versed in spoken English leads to enhance the personality of a person.

Objective of the Course:

The goals of the course are to develop cognitive abilities, self-discipline and means of communication with people from various backgrounds.

Outcome of the Course (including potential for employment generation):

This course is going to enhance the capacity of the learner in order to learn new language and it will build confidence of the learner. It will heighten their awareness of correct usage of English grammar in writing and speaking. The learner will attain and enhance competence in the four modes of language teaching: listening, speaking, reading and writing. They will improve their speaking ability in English both in terms of fluency and comprehensibility. Through this course the learner will be able to paraphrase information from outside sources effectively and accurately and will be able to distinguish between main ideas and details. Through this course the learner will be also able to distinguish new dimension of competitiveness and will be able to stand skilled at its work place.

| | | |
|---|---|--------------|
| Duration of the Course (in hours) | : | 45 Hours |
| Frequency of Course | : | Twice a year |
| Number of Seats | : | 50 |
| Course Fee (INR) | : | 1000/- |



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Eligibility for the Course : UG or Pursuing UG from recognised institution (Any Discipline)

Outline of the Course

| S.No. | Course Modules | Title | Hours |
|--|----------------|-------------------------|-------|
| 1. | SEPD -01 | Basic English | 25 |
| 2. | SEPD-02 | Corporate English | 10 |
| 3. | SEPD-03 | Personality Development | 10 |
| Theory/Lecture Hours: | | | 35 |
| Practical/Tutorial/Field Study Hours: | | | 10 |
| Total Hours: | | | 45 |

Details of Course Modules:

Module-1: Sentence Formation, Daily Life Conversation, Tense, Voice, Narration, Articles, Parts of Speech, Modals, Vocabulary, Phrases, Speaking & Pronunciation, Role Play, Listening & Writing, Show & Tell, Story Making, Short Talks.

Module-2: News Reading, Anchoring, Dealing with Imperfections, Advanced Vocabulary, Accent Building, Story Telling.

Module-3: Interview Session, Producer & Consumer Technique, Press Conference, Group Discussion, Tongue, Twisters, Debate / Impromptu, Dynamic Events, Extempore & Power play.

Assessment of the Course:

- Written Assessment
- Practical Assessment
- Viva-Voce Assessment



Course Coordinator : Dr. Ram Prakash Gupt (Assistant Professor)

Course Co-coordinator : Dr. Khusboo Agrawal (Assistant Professor)

Course Office : Department of English, CMP College, MG Marg,
George Town, Prayagraj, UP 211002

Ram Prakash Gupt
17/1/2024

K. Agrawal
14/1/24



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SHORT-TERM CERTIFICATE COURSE

Name of Course : Certificate Course in **Vermiculture and Vermicomposting of Biowaste**

Course Code : CVVB

Course Category : Skill Development

Department : Zoology

Description of the Course: (150 words)

Vermiculture is the culture of earthworms. The goal is to continually increase the number of worms in order to obtain a sustainable harvest. Vermicomposting is the process by which worms are used to convert organic materials (usually wastes) into a humus-like material known as vermicompost. These two processes are similar but different.

Vermiculture is the process of breeding earthworms, whereas the liquid filtered from the watery wash of earthworms is called vermish, while, vermicomposting is the transformation process of organic waste to compost or vermicompost by the use of earthworms. The vermicomposting process is an eco-friendly method with the capacity to convert organic waste (cow dung, house wastes etc.). This technique uses the earthworms to transform the waste into natural and enriched manure: the vermicompost. In addition to the ability to reduce waste, the vermicompost is an effective bio-manure that permits, on the one hand, to improve plant growth and, on the other hand, brings them essential nutritive elements. The vermicomposting technique presents a double benefit: it guarantees a regular income for the family while preserving the environment.

The objective of the Course: (150 words)

- To utilize waste of campus plants and garden by using earthworms and get vermicopost as a Black Gold!
- To aware the students and society about to use chemical free Vermicompost as an organic fertilizer for agriculture.
- To provide own vermicompost to college horticulture and garden free of cost.
- To provide skill development short-term course Vermicomposting Technology for students.
- To provide consultancy service to farmers is to compost organic wastes, not for the disposal of solid organic wastes but also to produce superior quality manure to feed our "nutrient/organic matter hungry" soils.
- They can help to maintain the environment pollution free and will get the knowledge other biodiversity of local earthworms.

Outcome of the Course (including potential for employment generation): (150 words)

Jyoti Verma
Dr. Jyoti Verma
(Course Coordinator)
Department of Zoology
C.M.P. Degree College
Allahabad

H. Pant
Dr. Hemlata Pant
(Course Co-ordinator)
Department of Zoology
C.M.P. Degree College
Allahabad



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- In this course a student gains practical knowledge about making compost at home with kitchen waste. Vinegar & egg shell fertilizer practical preparation of compost.
- By doing this course, students learn how to use organic waste to grown plants without chemical fertilizers.
- In addition students can save money not only for household gardens but it can also help to balance city's budget.
- Students can generate income by making their own compost & selling it to farmers or organically grown fruits are high in demand.
- Students get knowledge about different types of compost preparation to save soil, they can become entrepreneurs by setting up composting business and can literally "make out of trash".
- Black gold is obtained from zero investment.

Duration of the Course : 3 Months (12 week/75 hours)

(in hours)

Frequency of Course : Once a Year (October to December)

Number of Seats : 40

Course Fee (INR) : 1500/-

Eligibility for the Course : The candidate seeking admission to the course either pursuing or having a Graduate/Post-Graduate Degree from a recognized University

Important Points:

Lecture/practical timing: 12.40 PM to 1.40 PM

Academic calendar for the course: four days in a week (3 days theory periods & 1 day practical)

Examination structure & schedule:

At the end of course the examination will be conducted. Its notice & time table will be displayed for communication to the students at least before 15 days of the date of examination.

1. Course VT-01 Theory paper (objective/short answer type) = 50 marks, Two hours duration.

2. Course VT-02 Practical paper = 50 marks, two hours duration

Award of Certificate carrying grades: after successful completion of course colourful certificate indicating grade will be awarded to the candidate.

Dr. JYOTI VERMA

(Course Coordinator) Zoology
C.M.P. Degree College
Allahabad

Dr. Hemlata Pant

(Course Co-coordinator)
Department of Zoology
C.M.P. Degree College
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Course Content: Syllabus/Program

PAPER – I: Theory: Vermiculture

20 Hours

Habit and habitat.

Food and feeding habits of earthworm; worm castings.

Reproduction and lifecycle.

Economic importance of earthworms.

Role of earthworms in soil structure, fertility & productivity.

Meaning of vermiculture. General planning for vermiculture.

Ecological classification of earthworms.

Study of verms diseases & enemies

Advantages of Vermiculture.

PAPER – II: Theory: Vermicomposting

20 Hours

Introduction and Importance of Vermicompost.

Small – scale and Large – scale vermicomposting.

Indoor and outdoor vermicomposting.

Materials which can be used for vermicomposting.

Methods of vermicompost.

Harvest mature vermicompost and Earthworms, Post-harvest procedures

Vermiwash and its uses.

Precautions and Best Practices of Vermicomposting

PAPER – III: Practicals : Vermiculture

15 Hours

- Key to identify different types of earthworms
- Collection of local earthworms.
- Bed Preparation Steps for vermiculture.
- Vermiculturing using local species of earthworms.

PAPER – IV: Practicals : Vermicomposting

15 Hours

- Preparing vermicompost using paper waste and weeds.
- Preparation of vermiwash.
- Collection of vermicompost.
- Package and marketing of vermicompost.
- Vermicompost Cost Analysis
- Undertake basic entrepreneurial activities for small enterprise
- Financing & Business Plan

Jyoti Verma
Dr. JYOTI VERMA
(Course Coordinator)
Department of Zoology
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Hemlata Pant
Dr. Hemlata Pant
(Course Co-ordinator)
Department of Zoology
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Reference:

Earthworm: Vermiculture & Vermicomposting – R. K. Bhatnagar & R.K.Palta; 1996; Kalyani publishers, New Delhi.

Vermicomposting – Dr. B. Ramesh Chandra Rao; 2006; KUIDFC- KUDCEM, Mangalore.

Vermiculture – Mary Cristy; MJP Publishers.

Vermicompost – Avinash K Panikkar- <https://www.cleanindia.org/waste.htm#introwaste>

Vermicomposting technology for solid waste management- Ashaa Aalok, A. K. Tripathi & P. Soni: <https://www.indiaenvironmentportal.org.in/files/Vermicomposting.pdf>

The Complete Technology Book on Vermiculture and Vermicompost. by NPCS board. Asis Specific Business Press

Textbook of Vermicompost: Vermiwash and Biopesticides. by Dr. Keshav Singh

Advantage of the Course & Future Prospects:

- I. Students can construct their own compost farm & thereby can get monthly income of Rs. 7000-8000.
- II. Students/ farmers by using vermicompost in their field can increase the crop yield.
- III. Students residing in cities can produce vermicompost in small scale for garden/household plants.
- IV. They can get the jobs in educational institutes as vermicompost/vermiculture technician.
- V. The candidate can generate income by supplying verms, vermiwash, & vermicompost.
- VI. By developing & propagating vermicompost technology he/she will directly or indirectly help to prevent environmental pollution, by using vermicompost in the field & thereby increasing crop yield he will help to solve food problems.
- VII. It will lead towards organic farming & healthy food.
- VIII. In today's world, recycling of garbage has become necessary in order to sustain our health and environment. So let's join for Four R's of Recycling Reduce, Reuse, Recycle, Restore

News link related to this course

<https://www.facebook.com/cmpdcollege/posts/pfbid02YRvZyhJNjLCcccYgDagho7o5742PEAvdPcT2buwvQBAV3k8BHkL239doBy3VVrfSl>

<https://www.facebook.com/cmpdcollege/posts/pfbid02k7BBesQ4fv7aiUzoEkvckSCGqRW37fZX1n6yfqDPQeSepahU1ML7HVG4GCT3iazCl>

Dr. Jyoti Verma

Dr. JYOTI VERMA

(Course Coordinator)
Department of Zoology
C.M.P. Degree College
Allahabad

Dr. Hemlata Pant

Dr. Hemlata Pant
(Course Co-ordinator)
Department of Zoology
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GS FOUNDATION COURSE FOR CIVIL SERVICES

| | | |
|----------------------------|---|---|
| Name of Course | : | GS Foundation Course for Civil Services |
| Course Code | : | GSF |
| Department | : | Political Science |
| Course Category | : | Special Add-on Course |
| Proposed Duration Course | : | 150 hrs. (once in a year) |
| Proposed Number of Seats | : | 100 |
| Eligibility for the Course | | The candidate seeking admission to the course either be pursuing Graduate/Post-Graduate Degree from the C.M.P. Degree College. |
| Admission Process | : | Admission shall be based on either first come first serve basis or by an Aptitude Test (in case of applications more than seats) |
| Proposed Fee/Students | : | Rs. 3000/- |
| Course Coordinator | : | Dr. Govind Gaurav Assistant Professor, Department of Political Science, C.M.P. Degree College, Prayagraj |
| Course Office | | Department of Political Science, C.M.P. Degree College, Prayagraj |



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Course Overview and Structure

Description of Course:

GS Foundation Course is aimed to provide a qualitative solution to the Civil Services aspirants in order to enhance their preparation and academic excellence for the examination. It focuses on grooming the young aspirants with the qualitative and right knowledge which helps them to shape their career in the civil services of India. The course offers the students a variety of foundational knowledge about the civil services that help them in gaining confidence to appear and crack the examination successfully.

The Foundation course is exclusively designed for comprehensive coverage of General Studies of preliminary Civil Services Examination. The course covers various aspects like basic concepts, their application in the examination, the ability to articulate through regular practices, and a dynamic approach with focus on current affairs.

The course is conducted by experienced and efficient faculties of the College having an experience of the preparation of Civil Services Examination.

Objective of Course:

GS Foundation Course will serve as a bridge between the preparation and the actual demand of the civil services examination. It will familiarize the students with the micro detailing of the syllabus thoroughly along with basic concept coverage of the various domains of study. It will lay a solid foundation of concepts and will help in developing the perspective & approach needed for the preparation and cracking the most difficult and prestigious examination of civil services.

Course Outcome:

The Course would provide guidance and assistance help to the students for preparation of civil services examinations. It would facilitate the study of competition and job-oriented study and lay a foundation of knowledge required to clear the competitive examination.



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Course Design:

| Sr. No. | Course Module | Title | Duration (in hrs.) |
|--------------|---------------|---|--------------------|
| 1 | GSF-1 | History of India & Indian National Movement | 35 hrs. |
| 2 | GSF-2 | Indian & World Geography– Physical, Social, Economic Geography of India & the World | 30 hrs. |
| 3 | GSF-3 | Indian Polity & Governance– Constitution, Political System, Panchayati Raj, Public Policy, Rights Issues, etc. | 40 hrs. |
| 4 | GSF-4 | Economic & Social Development– Sustainable Development, Poverty, Inclusion, Demographics, Social Sector Initiatives, etc. | 20 hrs. |
| 5 | GSF-5 | General issues on Environmental ecology, Bio-diversity & climate change – that do not require subject specialization | 10 hrs |
| 6 | GSF-6 | English Comprehension | 10 hrs |
| 7 | GSF-7 | Data interpretation (charts, graphs, tables, data sufficiency etc. | 5 hrs |
| Total | | | 150 hrs |

(Dr. Govind Gaurav)

Course Coordinator

Android App Development

Outline of the Course

| S.No. | Course Modules | Title | Hours |
|---------------------|----------------|-------------------------|-------|
| 1. | APPS-1.1 | Java Concepts | 20 |
| 2. | APPS -1.2 | Android Basics | 20 |
| 3. | APPS -2.1 | Android App Development | 50 |
| 4. | APPS -2.2 | Android - Advanced | 30 |
| Total Hours: | | | 120 |

Details of Course Modules:

Module I: Java Concepts

- Introduction to Java
- OOPS refreshing concept

Module II: Android - Basics

- Introduction to Android
- What is Android?
- History of Android
- Android versions - History
- [CODING, UI, STORAGE]
- Introduction to Android Apps Development TOOL
- What is Activity?
- Developing a Simple Android Log In screen UI design
- Types of Layouts in Android
- Introduction to Android Java class file & its structure.

Module III: Android App Development

- Creating a simple Toast Message Application on click of a button
- What is Android Virtual device (AVD)?
- How to create Android Virtual Device (AVD)?
- How to run our App on our own Android device?
- Android Menus
- Creating Alert dialog box in Android
- Basic widgets in android, Creating a Simple user registration page UI

- Intents
- Creating a new Activity
- Passing Data between Activities
- WebView
- What is Android Manifest file?
- What is build Gradle file?
- Date and Time picker
- Playing Audio and Video in android Listview, gridview, Recycleview
- StartActivity for result, Types of Intents
- Creating Notifications in Android
- Animation in android
- Basic Components of Android
- Activity

Module IV: Android - Advanced

- Effective usage of Android Templates
- Shared Preferences
- Internal and External storage
- Android Fragments, Creating Navigation drawer and loading different fragments on clicking different menu item.
- SQLite Database.
- Creating a Login and Sign-Up Application using Firebase database
- Firebase- Realtime, Cloud, Storage, Auth
- How to import and Export codes, how to use Third party library projects and integrating it to our App
- Working with GitHub codes
- Procedures to launch your App on Play store.

Additional things to learn:

- **Adobe XD**
- **Adobe photoshop**
- **Figma**
- **Github**
- **Git**
- **Basic of Html & CSS**

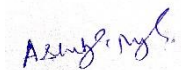
Outcome of the Course:

- Understand how an android works and how it is different from other.
- Know how to design an app.
- What are the basic parts of an android application.
- Create an android application.
- Start their own work and business.

Assessment of the Course:

- A. Written Assessment – N/A
- B. Practical Assessment - 2 Practical assessments each of 50 Marks
- C. Viva-Voce Assessment – 2 Viva-Voce Assessments during presentations.

Course Coordinator



Dr. Ashutosh Mishra

DIPLOMA IN COMPUTERISED ACCOUNTING (DCAC)

RELEVANT DOCUMENTS-

1. NAME OF THE PROGRAMME (YEAR WISE)

Diploma in Computerised Accounting (DCAC)


2. DURATION OF THE COURSE (NOT LESS THAN 30 HRS):

Six Months

3. LIST OF STUDENTS WITH SIGNATURE

3. LIST OF STUDENTS WITH SIGNATURE

| S. No. | Name | Fee receipt Number |
|--------|------------------------|--------------------|
| 001 | ABEER DWIVEDI | 201 |
| 002 | VIRENDRA YADAV | 204 |
| 003 | SUNIL KUMAR | 202 |
| 004 | ASHISH KUMAR JAISWAL | 205 |
| 005 | SHUBHAM MODANVAL | 203 |
| 006 | ANCHAL SINGH | 207 |
| 007 | PRAVEEN KR. SRIVASTAVA | 208 |
| 008 | SWETANK CHAUBEY | 209 |
| 009 | RAVI KUSHWAHA | 210 |
| 010 | VISHAL SINGH | 211 |
| 011 | SURAJ YADAV | 212 |
| 012 | SAUMYA PANDEY | 213 |
| 013 | ARYAN GUPTA | 215 |
| 014 | AVANISH KUMAR VERMA | 214 |
| 015 | BASANT KUMAR | 216 |
| 016 | ANIL TIWARI | 217 |


Anushka Pandey
Coordinator
Centre for Skill Development
C.M.P Degree College
Prayagraj

| | | |
|-----|---------------------|-----|
| 017 | SHIV NARAYAN MISHRA | 219 |
| 018 | AMIT SHARMA | 218 |
| 019 | HARSHWARDHAN SINGH | 220 |
| 020 | VIPIN KUMAR | 221 |
| 021 | MANISH YADAV | 222 |
| 022 | PRAVEEN KUMAR | 223 |
| 023 | SOUMYA GUPTA | 224 |
| 024 | RAHUL MAURYA | 225 |
| 025 | VISHV VIJAY KUMAR | 226 |
| 026 | MOHD NAJMUS SAQUIB | 227 |
| 027 | SHREYA YADAV | 228 |
| 028 | SWATI JHA | 229 |
| 029 | AVIRAL AGARWAL | 230 |
| 030 | ADARSH DHAR DWIVEDI | 231 |

4. CURRICULUM

ABOUT THE DIPLOMA IN COMPUTERISED ACCOUNTING (DCAC)

CMP Degree College has setup a Computer Value Hub in collaboration with UPTEC (A Government joint venture) at College campus. The tie-up provides quality IT Courses like CCC and Tally ERP 9 to students through well trained professionals in their free time with a nominal fee to become a Complete Accounting Professional.

Programme, Course, Duration, Eligibility and Fee Structure Details

Eligibility and Fee and Fee

| S.No. | Programme | Course | Duration | Eligibility | Fee Structure |
|-------|-----------|-------------------------|----------|-------------|---|
| 1 | Diploma | Computerized Accounting | 6 Months | 10+2 | Rs.6000 (For full course) + Rs. 200 (Admission fees) + Rs. 600 |

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Coordinator
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| | | | | | |
|--|--|--|--|--|-------------------|
| | | | | | (Courseware fees) |
|--|--|--|--|--|-------------------|

Syllabus

NIELIT 'CCC'


- Computer Fundamentals
- Introduction to GHI based operating system
- **Office Productivity Enhancements Tool**
 - Word Processing
 - Spreadsheet
 - Making small presentation
 - Computer communication and Internet
 - WWW and web browser
- Communication and Collaboration

Financial Accounting and Tally.ERP9

- Business Accounting
- Basic Accounting using Tally.ERP 9
- Financial Management & Banking
- Payroll
- Audit of Accounts
- GST (Goods and Service Tax)
 - TDS (Tax Deducted at Source)
 - TDS (Tax Collected at Source)
 - e-filing of Tax Returns
- Advance Accounting using Tally.ERP9
- Personality Development

5. ASSESSMENT PROCESS

All assessment process will be taken by UPTEC.


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Prayagraj

6. A summary report on Certificate Programme in Banking, Finance and Insurance (CPBFI)

C.M.P. Degree College organized a course on Diploma in Computerised Accounting (DCAC) in collaboration with UPTEC. This CPBFI course started from 14th September 2022. The course covered all aspects of advance accounting using Tally.ERP9. The course covered 6 months of learning through corporate trainers with 4 hours of training per day. 4 modules covered during the training:

- a. 3 months of Computer Fundamentals.
- b. 3 months of Advance Accounting using Tally.ERP9 .

The course ended on 27th October, 2022. Thirty (30) students completed the course and certificate are distributed to them.

Outcome

The course was mainly intended to improve the overall knowledge of financial accounting. The programme was successful in achieving following outcomes-


1. Improving general concept of accounting.
2. Improving basic computer knowledge.
3. Improving overall financial accounting operations through TALLY software.

7. MODEL CERTIFICATE ISSUED

Attached.

8. ATTENDANCE SHEET

Attached


Coordinator
Centre for Skill Development
C.M.P Degree College
Prayagraj

2020-21

1. NAME OF THE PROGRAMME (YEAR WISE)

1. Diploma in Banking and Financial Service
2. Diploma in Management and Entrepreneurship
3. Diploma in Computer Hardware and Networking

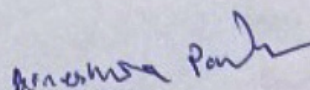
2. DURATION OF THE COURSE (NOT LESS THAN 30 HRS):

One Year

3. LIST OF STUDENTS WITH SIGNATURE

DIPLOMA IN BANKING & FINANCIAL SERVICE (DBFS) - 2020-21

| S.No | Name | Fee Receipt No. |
|------|----------------------|-----------------|
| 1 | ABHISHEK MISHRA | 7813 |
| 2 | ADITI YADAV | 7799 |
| 3 | AHMAD ABBAS | 10315 |
| 4 | ARPITA SRIVASTAVA | 7803 |
| 5 | ASHOK KUMAR GUPTA | 7793 |
| 6 | GARGI SHUKLA | 7878 |
| 7 | HIMANSHU PATEL | 7833 |
| 8 | JAI ASHISH TOPPO | 7790 |
| 9 | JYOTI ARYA | 7819 |
| 10 | JYOTI SHUKLA | 7811 |
| 11 | KM NIKITA SRIVASTAVA | 7972 |
| 12 | KM. HINA HASHAMI | 7821 |
| 13 | KOMAL VERMA | 10321 |
| 14 | MANJARI SRIVASTAVA | 7810 |
| 15 | PIYUSH AGRAWAL | 7829 |
| 16 | POOJA | 7836 |
| 17 | PRASHASTI GUPTA | 7792 |
| 18 | PRAYANK KUMAR | 10311 |
| 19 | PREETI KUMARI | 7834 |
| 20 | SAKSHI YADAV | 7835 |
| 21 | SHIKHA PANDEY | 7806 |
| 22 | SUDHANSHU MISHRA | 7814 |
| 23 | SUDIPTI SINGH | 7825 |
| 24 | SUHANI GUPTA | 10310 |
| 25 | SWATI SINGH | 7827 |
| 26 | VISHAL SRIVASTAVA | 7841 |


Coordinator
Centre for Skill Development
C.M.P. Degree College
Prayagraj

DIPLOMA IN MANAGEMENT AND ENTREPRENEURSHIP (DME)-2021

| S. No | Name | Fee Receipt No. |
|-------|------------------------|-----------------|
| 1 | AKSHIT VERMA | 7816 |
| 2 | AMIT JAISAWAL | 10320 |
| 3 | AMIT KUMAR VERMA | 7837 |
| 4 | ARVIND VERMA | 7939 |
| 5 | ATUL KUMAR | 7826 |
| 6 | HARSH KUMAR MAURYA | 7824 |
| 7 | MOHAMMAD DANISH ABBASI | 7789 |
| 8 | PRIYANSHU RAI | 7791 |
| 9 | RAVI KANT TIWARI | 7802 |
| 10 | Shikhar Shrivastav | 9845 |
| 11 | SHRUTI SRIVASTAVA | 7800 |

DIPLOMA IN COMPUTER HARDWARE AND NETWORKING (DCHN) -2020-21

| S.NO. | Name | Fee Receipt No. |
|-------|-----------------|-----------------|
| 1 | ANKIT TRIPATHI | 7809 |
| 2 | GAURAV PANDEY | 7831 |
| 3 | SHRUTI NIGAM | 7808 |
| 4 | SHUBHAM KASHYAP | 7822 |

4. CURRICULUM

Programme, Course, Duration, Eligibility, No. of Seats and Fee Structure Details

| S.No. | Programme | Course | Duration | Eligibility | Seats | Fee Structure |
|-------|-----------|----------------------------------|----------|-------------|-------|--|
| 1 | Diploma | Banking & Financial Service | One Year | 10+2 | 40 | Rs.5000 (For full course) + Rs.200 (Admission fees) |
| 2 | Diploma | Management and Entrepreneurship | One Year | 10+2 | 40 | Rs. 5000 (For full Course) + Rs.200 (Admission fees) |
| 3 | Diploma | Computer Hardware and Networking | One Year | 10+2 | 40 | Rs. 12000 (For full Course) + Rs.200 (Admission fees) |

Binod Kumar Pandey

Coordinator

Centre for Skill Development

C.M.P Degree College

(Gaya)

Syllabus

Diploma in Banking and Financial Service (DBFS)

Sem-I

1. Business Communication and Personality Development
2. IT for Bankers
3. Banking Law & Practice-1
4. Management of Financial

Sem-II

1. Economics for Bankers
2. Financial Markets and Institutions
3. Banking Law & Practice – 2
4. Project Work/ Internship/Apprenticeship

Diploma in Management & Entrepreneurship (DME)

Sem-I

1. Business Communication and Personality Development
2. IT for Business
3. Principles and Practice of Management
4. Introduction to Entrepreneurship

Sem-II

1. Financial Management
2. Marketing Management
3. Human Resource Management
4. Project Work/ Internship/Apprenticeship

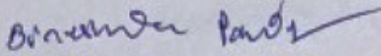
Diploma in Computer Hardware and Networking

Sem-I

1. COMPUTER FUNDAMENTAL-1 (DCHN-01)
2. ELECTRONICS (DCHN-02)
3. Module-2: Hardware Concepts (DCHN-03)
4. Module-3 Computer Fundamental-2 (DCHN-04)
5. Module-4: Software Installation and Troubleshooting (DCHN-05)

Sem-II

1. Module5: Network Concepts (DCHN-06)
2. Module 6: Structure cabling, Fiber Splicing and Routing (DCHN-07)
3. Module 7: LINUX (DCHN-08)
4. Module 8: Project Work/ Internship/Apprenticeship (DHCN-09)
5. Module 9: Business Communication and Personality Development (DHCN-10)


Coordinator
Centre for Skill Development
C.M.P Degree College
May 31/23

5. ASSESSMENT PROCESS

Written examination has been conducted at the end of semester and evaluation of Project Work/ Internship/Apprenticeship.

6. A summary report on Certificate Programme in Banking, Finance and Insurance (CPBFI)

C.M.P. Degree College organized a course under UGC-NSQF programme. This CPBFI course started from 05th January, 2020. The course covered all aspects of banking, finance, management and computer hardware and networking. The course ended on 27th December, 2020. Forty one (41) students completed the course and certificate are distributed to them.

Outcome

The course was mainly intended to improve the overall knowledge of banking, finance, accounting and management. The programme was successful in achieving following outcomes-

1. Improving general concept of banking, finance, accounting and management.
2. Improving basic computer knowledge.
3. Improving overall knowledge of computer hardware and networking.

7. MODEL CERTIFICATE ISSUED

Attached.

8. ATTENDANCE SHEET

Attached

Binay Kumar Pandey
Coordinator
Centre for Skill Development
C.M.P. Degree College
Prayagraj



Centre for Vocational Studies & Skill Development

C. M. P. Degree College

(A Constituent PG College, University of Allahabad)

M.G. Marg, Prayagraj-211002

Website: cmpcollege.ac.in

CERTIFICATE COURSE

| | |
|----------------------------|--|
| Name of Course | Plant Tissue Culture and Micro propagation (Exposure of lab to land techniques) |
| Course Code | PTC |
| Department | BOTANY |
| Course Category | Special Add-on Course |
| Proposed Duration Course | 30 hrs. (once in a year) |
| Proposed Number of Seats | 15 |
| Eligibility for the Course | The candidate seeking admission to the course either be pursuing Graduate/Post-Graduate Degree in Science (Bio) from the C.M.P.Degree College. |
| Admission Process | Admission shall be based on either first come first serve basis or by an Aptitude Test (in case of applications more than seats) |
| Proposed Fee/Students | Rs. 15000/- |
| Course Coordinator | Dr. Neha Pandey Assistant Professor, Department of Botany, C.M.P. Degree College, Prayagraj |
| Course Co-coordinator | Dr. Sarita Srivastava Associate Professor, Department of Botany, C.M.P. Degree College, Prayagraj |
| Course Office | DBT Central Facility center, Department of Botany, C.M.P. Degree College, Prayagraj |



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BUDGET PROPOSAL FOR THE COURSE DURATION OF 3 MONTHS

| S. No | Items | Budget | Total (Rs) |
|--|--|---------------------------------|----------------|
| 1 | Resource person honorarium (including Course coordinator) | 1000/- per lecture | 20000.00 |
| 2 | Lab technician | 5000/-per month | 15000.00 |
| 3 | Consumables | 1,50000/-once during the course | 150000.00 |
| 4 | Instrumentation | 50,000/- once during the course | 50000.00 |
| 5 | Tours and travel | 25000/- once during the course | 25000.00 |
| 6 | Miscellaneous | | 10000.00 |
| Total Two lakhs twenty five thousand only | | | 2250000 |

Basic Requirements for Implementation:

1. A laboratory cum culture room of 20x 20 feet
2. One Air-conditioners for tissue culture chamber
3. Instrumentations:
 - a. pH meter
 - b. Refrigerator
4. Consumables Chemicals and glass wares
5. Man power:
 - a. Course coordinator (specialized in Tissue culture and micro-propagation)
 - b. Resource persons (lectures on specialized area)
 - c. One technical assistant.
 - d. One daily wager for washing and autoclaving

Course Overview and Structure

Description of Course

Plant Tissue culture is an important tool for both basic and applied aspects of plant biotechnology as well as its commercial applications. As a technique widely known for the production of large numbers of genetically identical plantlets, this technology exhibits several advantages over conventional propagation techniques. All techniques are skill based and upon systematic learning, can equip a person to effectively utilize the techniques in various areas like basic research, environmental issues and commercial applications. It is a valuable tool for research on morphogenesis, cell signaling, physiology, and molecular biology, as well as crop improvement by biotechnology. This course offers a comprehensive hands-on training for learning the basics with an insight to laboratory practices along with exposure to “lab-to-land” transfers.



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1. Objective:

1. Dissemination of knowledge for Lab to Land
2. Basic and applied training in the subject for development of skills for a successful career in entrepreneurship,
3. Generate technically trained human resource for tissue culture industries and as instructors in schools and junior colleges.

2. Benefits of Course:

1. The course will be a value-added course for High School and Jr. College Science teachers.
2. To start as Entrepreneurs in Plant tissue culture and can establish their own labs
3. Researchers in plant tissue culture who have a focus on commercial applications such as crop improvement, secondary metabolite production, and various strategies for inducing genetic interference;
4. Beneficial for researchers and students who want to understand basic laboratory setup, handling of explant tissue, nutrient medium and establishing the culture, and incubation of cultures.

3. Course Structure:

| S.No. | Course Modules | Title | Total number of hours |
|-------|----------------|--------------------------------------|-----------------------|
| 1. | PTC-1.1 | Plant Tissue Culture: Techniques (T) | 08 hrs |
| 2. | PTC-1.2 | Micro-propagation (T) | 08 hrs |
| 3. | PTC-2.1 | Practical course based on PTC-1.1 | 08 hrs |
| 4. | PTC-2.2 | Practical course based on PTC-1.2 | 06 hrs |
| 5 | PTC | Laboratory/Industrial visit | - |

4. Course Assessment:

At the end of the course, an MCQ examination shall be conducted on the basis of curriculum/module to assess the progress of students and certificates shall be provided only to those students who scored at least 50 percent marks in the examination.

5. Course Outcome:

The Course would provide guidance and assistance that helps the students to understand the importance of antioxidant agents and their derivatives. It would facilitate the job-oriented study and lay a foundation of knowledge required to combat with ageing process.



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6. Course contents and Modules

Module I: Basic theory of Plant tissue culture and applications

PTC-1.1: Plant Tissue Culture

- Introduction. History. Scope. Advantages. Applications. Limitations.
- Guidelines for establishing academic and commercial laboratory.
- Steps involved in Plant Tissue Culture.
- Various nutrient medium composition
- Plant growth regulators and their role in nutrient media.
- Types of organ cultures and their applications.
- Pathways of regeneration.
- Micrografting of commercially important plants. In vitro approaches for crop improvement.
- Plant cell reactors.
- Micro techniques

PTC-1.2: Micropropagation (22L)

- Meristem culture for the production of virus free plants.
- Nucellus culture for clonal propagation and large scale multiplication.
- Strategies of Micropropagation.
- Stages of micropropagation via axillary shoot proliferation in Monocots and Dicots.
- Stages in micropropagation via direct and indirect organogenesis.
- Stages in micropropagation via direct and indirect somatic embryogenesis.
- Low cost methods for micropropagation.

Module II: Hands on training in basic tissue culture techniques

PTC-2.1: Practicals in Plant Tissue Culture:

1. Handling and Instrumentation of Plant Tissue Culture.
2. Glassware Washing & Sterilization Techniques.
3. Preparation of stock solutions and nutrient media.
4. Surface sterilization of Explants.
5. Seed cultures for the establishment of organ cultures.
6. Establishment of organ cultures for the induction of callus
7. Establishment of organ cultures for the induction of multiple shoots
8. Sub-culturing of nucellar seedlings for clonal propagation.



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9. Primary hardening of tissue culture plants for their acclimatization
10. Cytological study of calli cells and their subculturing
11. Establishment of embryogenic/ non embryogenic cell suspension cultures.
12. Embryo / Endosperm/ Ovules and anther Cultures.

PTC-2.2: Practicals in Micropropagation

1. Demonstration of meristematic explants in different plants
2. Preparation of mother plants for collection of explants
3. Monocot shoot bud culture for axillary shoot proliferation
4. Dicot Shoot tip / nodal segment culture for axillary shoot proliferation.
5. Establishment of multicultures
6. In vitro and ex vitro rooting of microshoots.
7. Primary and secondary hardening of tissue cultured plants.
8. Artificial seed production from microshoots and their in- vitro germination.
9. Establishment of cultures for the induction of embryogenic callus.
10. Maturation and conversion of somatic embryos into plantlets.

Module III: Exposure to the industrial and lab setup

PTC 3: Visit to a tissue culture Laboratory or Industrial visit of one day

(Dr. Neha Pandey)

Course Coordinator

Assistant Professor

Department of Botany

(Dr Sarita Srivastava)

Course Co-coordinator

Associate Professor

Department of Botany



Centre for Vocational Studies & Skill Development

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Antioxidant Testing in Medicinal and Aromatic Plants

| | | |
|----------------------------|---|--|
| Name of Course | : | Antioxidant Testing in Medicinal and Aromatic Plants |
| Course Code | : | ATM |
| Department | : | Chemistry |
| Course Category | : | Special Add-on Course |
| Proposed Duration Course | : | 30 hrs. (once in a year) |
| Proposed Number of Seats | : | 10 |
| Eligibility for the Course | : | The candidate seeking admission to the course either be pursuing Graduate/Post-Graduate Degree in Science (Bio) from the C.M.P.Degree College. |
| Admission Process | : | Admission shall be based on either first come first serve basis or by an Aptitude Test (in case of applications more than seats) |
| Proposed Fee/Students | : | Rs. 500/- |
| Course Coordinator | : | Dr. Santosh Kumar Srivastava Associate Professor, Department of Chemistry, C.M.P. Degree College, Prayagraj |
| Course Co-coordinator | : | Dr. Himani Chaurasia Assistant Professor, Department of Chemistry, C.M.P. Degree College, Prayagraj |
| Course Office | : | Photophysical & Therapeutic Laboratory, Department of Chemistry, C.M.P. Degree College, Prayagraj |



Centre for Vocational Studies & Skill Development

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Course Overview and Structure

Description of Course:

Antioxidant Testing Short-Term Course is aimed to provide a qualitative solution to the Biochemistry, Chemistry and Biology Students in order to enhance their preparation and academic excellence for their future endeavors. Antioxidants have become scientifically interesting compounds due to their many benefits such as anti-aging, anti-inflammatory, in food technology, in pharmacology, cosmetics and medicine.

This course focuses on grooming the Science Students with the qualitative and right knowledge which helps them to shape their career in the field of Medicinal Chemistry. It offers the students in-hand-training about the extraction and antioxidant potential analysis of natural products, that help them in gaining confidence to appear and crack the interviews successfully.

This course is exclusively designed for the introduction of drug discovery, chemistry and biological importance of natural products, and extraction & hands-in-training for antioxidant evaluation. The course is conducted by experienced and efficient faculties of the College having an expertise in antioxidant evaluation in natural and synthetic products.

Objective of Course:

The course will serve as a bridge between the training and the actual demand of the pharmaceutical industries. It will familiarize the students with the micro detailing of the drug discovery and analysis of biological activities of antioxidants. It will lay a solid foundation of concepts and will help in developing the perspective & approach needed to achieve jobs in pharmaceutical industries.

Course Assessment:

At the end of the course, an MCQ examination shall be conducted on the basis of curriculum/module to assess the progress of students and certificates shall be provided only to those students who scored at least 50 percent marks in the examination.

Course Outcome:

The Course would provide guidance and assistance that helps the students to understand the importance of antioxidant agents and their derivatives. It would facilitate the job-oriented study and lay a foundation of knowledge required to combat with ageing process.



Centre for Vocational Studies & Skill Development

C. M. P. Degree College

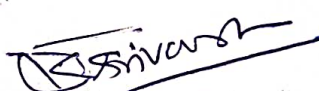
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Website: cmpcollege.ac.in

Course Design:

| Sr. No. | Course Module | Title | Duration (in hrs.) |
|--------------|---------------|--|--------------------|
| 1 | ATM-1 | Introduction of ageing process and oxidative release of free radicals | 02 hrs. |
| 2 | ATM-2 | Plants of Biological Importance | 02 hrs. |
| 3 | ATM-3 | Essential and Non-Essential Antioxidants | 02 hrs. |
| 4 | ATM-4 | Synthetic and Natural Antioxidants | 02 hrs. |
| 5 | ATM-5 | Methodology of Antioxidant Evaluation (<i>in-silico</i> and <i>in-vitro</i>) | 10 hrs |
| 6 | ATM-6 | Mechanism of Antioxidant Action <i>in vitro</i> | 02 hrs |
| 7 | ATM-7 | Data interpretation (charts, graphs, tables, data sufficiency etc. | 02 hrs |
| 8 | ATM-8 | Hands-in-Training | 08 hrs |
| Total | | | 30 hrs |


(Dr. Santosh Kumar Srivastava)
Dr. Santosh K. Srivastava
Course Coordinator
Department of Chemistry
C.M.P. Degree College
University of Allahabad

**CERTIFICATE COURSE IN ADULTERATION
OF
MILK AND MILK PRODUCTS
(THIRTY HOURS CERTIFICATE PROGRAM)**

SYLLABUS

COURSE STRUCTURE AND SCHEME



Department of Chemistry
C.M.P. Degree Collage Prayagraj


2022-2023

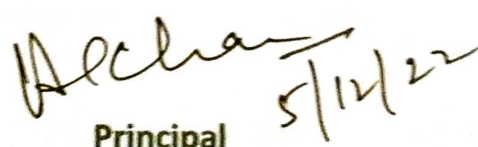
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CERTIFICATE COURSE IN ADULTERATION OF MILK AND MILK PRODUCTS: (THIRTY HOURS CERTIFICATE PROGRAM)

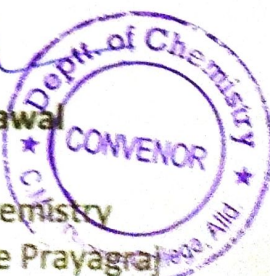
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| 1 | Course Code | : | AMP |
| 2 | Duration of Course | : | 30 hours |
| 3 | No. of Seats | : | 10 |
| 4 | Fees | : | Rs. 2000.00 |
| 5 | Course offered by the Department | | Department of Chemistry C.M.P. Degree Collage Prayagraj |
| 6 | Name of Course Coordinator | : | Dr. Pravin Kumar Singh Assistant Professor Department of Chemistry C.M.P. Degree Collage Prayagraj |
| .6 | Name of Course Co-coordinator | | Dr. Vishal Srivastava Assistant Professor Department of Chemistry C.M.P. Degree Collage Prayagraj |


Dr. Pravin Kumar Singh
 Course Coordinator


Dr. Vishal Srivastava
 Co-coordinator


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 Convener
 Department of Chemistry
 C.M.P. Degree Collage Prayagraj



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Course Objective:

1. To understand the fundamentals of food quality and control procedures.
2. To provide hands on training about adulteration and detection methods.

Course Learning Outcomes:

After successful completion of the course, students will be able to:

1. This course provides knowledge of Dairy Chemistry, Milk Composition — Physico Chemical properties of milk.
2. This course provides knowledge on various adulterants that added in milk and milk products.
3. It provides knowledge to students on various tests to detect adulterants.

Syllabus:

Unit I.

Dairy Chemistry: Milk Composition — Physico Chemical properties of milk, Milk lipids, Proteins, Sugar and significance - Minerals and Vitamins in Milk — Thermal stability of Milk — Freezing Point depression of Milk.

Unit II.

Adulteration and contaminants in milk and milk products: Definition, classification of adulterants, List of commonly adulterant in milk and milk products, harmful effects of adulterants and contaminants. Food laws - adulteration acts.

Unit III.

Qualitative testing methods of market milk and milk products: Quality testing of market milk: use of bio protective factors for preservation of raw milk: effects on physiochemical, microbial and nutritional properties of organic milk. Status of preservation of raw milk.

Adulteration of carbohydrates in milk: starch, sugar, glucose and Dextrin/Maltodextrin – detecting methods - health effects.

Adulteration of Fertilizers and salts in milk: urea, pond water, ammonium compound and common salt — detecting methods - health effects. Detergents in milk

Unit IV.

Adulteration of neutralizer and preservative in milk: sodium hydroxide, sodium carbonate - sodium bicarbonate - formaldehyde - hydrogen peroxide — MRL- Detecting methods – health effects. Permitted preservatives and its limits

Unit V.

Adulteration of milk Products: Vanaspati — animal body fats — vegetable oils in fat rich products—detecting methods - health effects, Effects and health

Colour and flavours - Impacts of artificial/synthetic colour and flavours in milk and milk products



Reference Text Books:

1. Early, R. (1995), Guide to Quality Management Systems for the Food Industry, Blackie, Academic and Professional, London.
2. Farrington and Woll. 2010. Testing milk and its products, Axis Books Publ, Jodhpur.
3. Gould, W.A. and Gould, R.W. 1988. Total Quality Assurance for the Food Industries, CTI Publications Inc, Baltimore.
4. Ramakant Sharma 2006, Production, processing and quality of milk products International book distributing Co, Lucknow.
5. SandeepTomar. 2013, Dairy products research and analysis, Oxford book company, Jaipur.
6. Srilakshmi, B. 2005. Food Science, New Age International (P) Ltd., Publishers, New Delhi.

