



चौधरी महादेव प्रसाद महाविद्यालय C. M. P. DEGREE COLLEGE

(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



PROGRAMME SPECIFIC OUTCOMES (PSOs) B.Sc. Botany

PSO1. Botany is a scientific study of plant life. It ignites a passion in the students to love an outdoor environment and stimulates their interest in exploring a variety of landscape and terrains to interact with plants.

PSO2. The basic knowledge of Botany will help the students in areas of Agriculture by making them aware of the planting and cultivation techniques to improve efficiency and effectiveness of growing crops.

PSO3. Botany plays a critical role in many areas of life. The scientific study of medicinal plants called Ethnobotany contributes to development of new medicines and treatment of major diseases.

PSO4. Botany also provides employment opportunities for the students in Agriculture, Horticulture, Forestry and Genetic Engineering.

PSO5. The experimental techniques in Botany help the students to develop a deep sense of curiosity, critical observation, keenness to reach to the root of the problem and discover the truth which is a basic foundation of scientific temper and train them to become future scientists.

PROGRAMME OUTCOMES (POs)

PO-1: Knowledge: the students will gain knowledge in the field of Botany and applied areas and after completion of course they

PO-2: Problem Analyses: At the end of the program, students will be able to identify, formulate and analyze scientific problems and reach concrete solutions using various principles of Genetics and sciences.

PO-3: Designing Solutions: Having acquired knowledge of subjects, students are trained to think out of the box, design and conduct an experiment or a series of experiments that demonstrate their understanding of the methods and processes involved.

PO-4: Modern tool usage: As an outcome of PO-1, PO-2 and PO-3, learners are trained to create, select, and apply appropriate techniques, resources and IT tools in the analysis and synthesis of data within limitations.

PO-5: Communication Development: Learners will be able to communicate effectively on scientific issues with the scientific community and society at large in writing effective reports and designing documentation, make effective presentations and give and receive instructions.

Mahatma Gandhi Marg, George Town, Prayagraj-211002, U.P.

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PO-6: Employability: At the end of the program students will be able to increase their employability through subject knowledge and additional skills.

PO-7: Ethics: In this program, this process is enabled through courses and facilitators who integrate the teaching of ethics in everyday pedagogy. As such, at the end of this program students will be able to develop, internalise and exercise ethics in their professional as well as personal practices.

PO-8: Environment and Sustainability: 'Environmental sustainability' has become the watchword of the 21st century. An increased engagement with environment related concerns is appearing tangibly on global fronts; academics cannot and should not remain quarantined from this massive development. Through classroom discussions and research projects, this program facilitates active dialogues with factors which influence human-ecology interactions. As such, at the end of this program students will be able to identify and analyze socio-political, cultural and economic problems which act as deterrents to environmental sustainability and provide creative solutions towards the same.

PO-9: Soft-Skill Development: Apart from the attainment of knowledge and hands on skills in practical applicability of the subject, learners need to be equipped with soft-skills and values which will help them function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary groups. These softs kills include leadership, teamwork, project-management, positive outlook, innovative approaches and effective articulation. Several soft skill programs are organized for learners through various agencies that tie up with the state government. As such, at the end of this program, students will be able to hone the soft-skills required in positively enhancing their academic, professional and personal pursuits towards self and societal advancement.

PO-10: Science and Society: As an outcome of PO-1, PO-2 and PO-3, learners are encouraged to apply logical reasoning based on the knowledge, skills, designing solutions to assess societal, health, safety issues and the responsibilities that go along with the scientific practice. As an extension activity to society, learners are encouraged to take up specific projects such as impact of salinity on fresh water wells in an adopted village, and provide effective solutions.

PO-11: Life-long learning: With the pursuit of knowledge for either personal or professional reasons, learners are also encouraged to volunteer and be self-motivated that not only enhances society values, active participation and personality development, but also enhances self-sustainability, competitiveness and employability. As such, learners will be able to recognize the need for, and have the preparation and ability to engage in independent and life-long learning in every broad context of technological changes.

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