

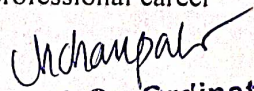
D.M.S. Mandal's
Bhaurao Kakatkar College, Belgaum.

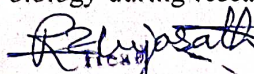
Department of Botany 2022-23

Program Out comes

B.Sc I,II,III, & IV-NEP And Vth & VIth CBCS.

- PO1: Skill development for the proper, identification, naming, classification and description of botanical terms of life forms especially plants and microbes.
- PO2: Acquisition of knowledge on structure, life cycle and life processes that exist among plant and microbial diversity through certain model organism studies.
- PO3: Understanding of various interactions that exist among plants and microbes; to develop the curiosity on the dynamicity of nature.
- PO4: Understanding of the major elements of variation that exist in the living world through Comparative morphological and anatomical study.
- PO5: Ability to explain the diversity and evolution based on the empirical evidences in Morphology, anatomy, embryology, physiology, biochemistry, molecular biology and life History.
- PO6: Skill development for the collection, preservation and recording of information after Observation and analysis- from simple illustration to molecular database development.
- PO7: Making aware of the scientific and technological advancements- Information and Communication, Biotechnology and Molecular Biology for further learning and research in all branches of botany.
- PO8: Internalization of the concept of conservation and evolution through the channel of spirit of inquiry.
- PO 9: To enable the graduates to prepare for national as well as international level competitive Examinations like UGC-CSIR, UPSC, and KPSC etc.
- PO10: To enable the students for practicing the best teaching pedagogy as a biology teacher Including the latest digital modules.
- PO 11: The graduates should be knowledgeable and competent enough to appropriately deliver On aspects of global importance like climate change, SDGs, green technologies etc at the right opportunity.
- PO 12: The graduate should be able to demonstrate sufficient proficiency in the hands-on Experimental techniques for their area of specialization within biology during research and in the professional career


Indrapal
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Course outcome I

1. Understand the fascinating diversity, evolution, and significance of microorganisms.
2. Comprehend the systematic position, structure, physiology and life cycles of Microbes and their impact on humans and environment.
3. Gain laboratory skills such as microscopy, microbial cultures, staining, identification, preservation of microbes for their applications in research and industry.

Course outcome II

1. Understand the diversity and affinities among Algae, Bryophytes, Pteridophytes and Gymnosperms.
2. Understand the morphology, anatomy, reproduction and life cycle across Algae, Bryophytes, Pteridophytes and Gymnosperms, and their ecological and evolutionary significance.
3. Obtain laboratory skills/explore non-flowering plants for their commercial applications.

Course outcome III

1. Observation of variations that exist in internal structure of various parts of a plant and as well as among different plant groups in support for the evolutionary concept.
2. Skill development for the proper description of internal structure using botanical terms, their identification and further classification.
3. Understanding basic concept in plant morphogenesis and embryogenesis and organ development .

Course outcome IV.

1. Understanding the fundament concept in ecology, environmental science and phytogeography.
2. Concept development in conservation global ecological crisis. Sustainable development and protects and conservation of human intervention.
3. Enable the student to appreciate bio diversity and the importance of various conservation strategies, laws and regulatory authorities and global issues related to climate change and sustainable development.

Chhaupali
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Course outcome V.

1. Students know about the economic importance Cereals and legumes, pulses, spices, beverages, oil and fats.
2. Students learn the microbial genetics and manipulation, immunology and plant tissue culture.
3. To learn the recombinant DNA technology, blotting techniques.
4. Students know about the cell and molecular biology.

Course outcome VI.

1. Students learn about the different types of microscope, principles and application.
2. Students know about the biostatics.
3. Students learn the manures and Bacterial bio-fertilizers and organic forming.

Mehantpal
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