

Course Outcomes

Paper-I Microbial diversity, Algae, Fungi, Bryophyta & Pteridophyta.

CO1 to develop interest in the concepts related to bacteria, viruses, algae, fungi, Bryophyta and Pteridophyta

CO2 to learn details about the general characteristics of bacteria and their cell, nutrition reproduction/ recombination.

CO3 to learn details on general structure, replication of viruses and plant diseases caused by viruses

CO4 Develop critical understanding of plant diseases caused by bacteria, viruses, mycoplasma, actinomycetes and fungi and their remediation methods.

CO5 Develop critical understanding on morphology, anatomy, life cycle and reproduction of Bryophytes and Pteridophytes.

CO6 Demonstrate the practical methods related to the relevant topics

Paper-II: Gymnosperms, Plant Taxonomy & Ecology

CO1 Develop critical understanding on morphology, anatomy, reproduction and economic importance of Gymnosperms

CO2 The students develop knowledge on nomenclature, identification, and classification

CO3 students can develop interest in plants identification in local areas

CO4 Students can able to know the Technique of making herbarium and able to make herbarium sheets by their own

CO5 students gain knowledge on basic concepts of plant ecology, different types of ecosystems and their structures

CO6 Understanding the concepts of biotic and abiotic components.

CO7 understanding the concepts of different plant communities and their succession.

Paper-III: Plant Anatomy and Embryology.

CO1 students will learn the fundamental concepts of plant anatomy

CO2 Analyse and recognize the different organs of plant and secondary growth.

CO3 Evaluate the structural organization of flower and the process of pollination, fertilization & Development of embryo.

Paper-IV: Cell Biology & Genetics, Plant physiology

CO1 Understand the importance, evolution and diversity of cells.

CO2 Able to describe the organization, structure and functions of cell wall, plasma membrane and different types of cell organelles

CO3 Understand the sequential events that occur during mitosis and meiosis.

CO4 Understand Water relation of plants with respect to various physiological processes like diffusion, osmosis, imbibition and transpiration etc

CO5 Explain chemical properties and deficiency symptoms of micro and macro nutrients in plants

CO6 Understand the mechanism of various metabolic processes in plants like photosynthesis and respiration

CO7 Explain the significance of Nitrogen metabolism

CO8 Acquire basic knowledge about growth hormones in plant development

DSE-IA: Biodiversity & Conservation

CO1 Develop understanding of the concept and scope of Biodiversity and types of biodiversity.

CO2 understands the concept of agro biodiversity and its importance in conserving wild and cultivated species.

CO3 Utilize various strategies for the Conservation of biodiversity.

CO5 students can understand the importance of forestry and the role of plants in relation to human welfare.

DSE-IIB: Tissue culture & Biotechnology

CO1 students can be able to understand the procedure of tissue culture, micropropagation, and practical implementation

CO2 understands the procedures of different organ cultures to produce a number of plants.

CO3 Examine gene cloning and evaluate different methods of gene transfer.

CO4 understands the procedure of r-DNA technology and related research methodologies.