

Department of Botany

Course Outcomes

Class: F.Y.B. Sc. Botany

Semester I

Course (Paper) Name and No.: Plant Diversity I

- CO1 Identify and differentiate between the different plant groups.
- CO2 Understand the ecological and economic importance of each of the different plant groups.
- CO3 Describe general characteristics of Class Cyanophyceae and Chlorophyceae and write down lifecycle of *Nostoc* and *Spirogyra*
- CO4 Describe general characteristics of Class Phycomycetae and write down lifecycle of *Saprolegnia* and *Rhizopus*.
- CO5 Describe general characteristics of Class Hepaticae and write down lifecycle of *Riccia*

Course (Paper) Name and No.: Form and Function I

- CO1 Describe eukaryotic plant cell.
- CO2 Describe the ultrastructure of cell wall, cell membrane, mitochondria, chloroplast and endoplasmic reticulum.
- CO3 Understand the concept of ecosystem, food chain, food web, and energy flow.
- CO4 Identify and study the characteristics of different terrestrial and aquatic ecosystems
- CO5 Understand concepts in Mendelian genetics.
- CO6 Understand concepts in non-mendelian genetics, epistasis and multiple allelism.

Semester II

Course (Paper) Name and No.: Plant Diversity I

- CO1 Identify and differentiate between the different plant groups.
- CO2 Understand the ecological and economic importance of each of the different plant groups.
- CO3 Describe stelar evolution; write down general characteristics of Pteridophytes and lifecycle of *Nephrolepis*.
- CO4 Identify general characteristics of Class Cycadophyta and write down lifecycle of *Cycas*.
- CO5 Describe inflorescence morphology and write down general characteristics, leaf morphology, diagnostic features and economic importance of angiospermic families Cruciferae, Apocynaceae, Euphorbiaceae and Amaryllidaceae.

Course (Paper) Name and No.: Form and Function I

- CO1 Describe the simple permanent tissues.
- CO2 Describe the epidermal tissue system, epidermal appendages and primary structure of dicot and monocot root, stem and leaf.
- CO3 Understand the concept of water potential, solute potential, matric potential and pressure potential.
- CO4 Understand enzyme inhibition, kinetics and mechanism of enzyme action and write down classification of enzymes.
- CO5 Understand concepts of primary and secondary metabolites.
- CO6 Write down the sources, parts used, active constituents and medicinal uses of adulsa, tulsi, ginger, turmeric, sandalwood and aloe.