

Course Outcomes
Botany

PAPER:I: MICROBIAL DIVERSITY, ALGAE & FUNGI

- CO1.** To know about the origin and evolution of life, formation of earth in the universe and existence of life on earth.
- CO2.** To know about microbial diseases regarding to various micro organism in man, animals and plants.
- CO3.** To gain knowledge on Algae for growing the populations with lot of Economic importance as food, fodder and feed etc.,
- CO4.** To gain knowledge of fungi as pathogen causing many famines as in the past and to overcome and manage the fungal disease and protect the life forms on the earth.

PAPER: II DIVERSITY OF ARCHEGONIATES AND ANATOMY

- CO1.** To Know the structure of non-vascular plants.
- CO2.** To Know the importance of mass plants.
- CO3.** To know the structure of vascular plants.
- CO4.** To know the importance plant anatomy

PAPER III: PLANT TAXONOMY AND EMBRYOLOGY

- CO1.** To acquire knowledge to maintain botanical garden worldwide.
To acquire the knowledge of classification of the plants and the comparison, origin and
- CO2.** evolution of angiosperms which are the most important species in our daily life.
- CO3.** To acquire the knowledge of the development of embryo and structure.
To know the pollination and fertilization methods to develop with new genetically
- CO4.** combinations leading to new varieties.

PAPER IV: PLANT PHYSIOLOGY AND METABOLISUM

- CO1.** To Know the Process of various metabolic activities in plant body
- CO2.** To Know the process of photosynthesis and respiration
- CO3.** to know the importance of phyto hormones
- CO4.** To know the process of stress physiology

PAPER V: Cell Biology, Genetics and Plant Breeding

- CO1.** Knowing about the cell theory and typical eukaryotic and prokaryotic cells.
- CO2.** Identifying the differences between plant and animal cells through microscopic observations
- CO3.** Understanding the basic concepts of genetic material and its physical and biochemical natures along with the replication of the genetic material
- CO4.** Understanding the basic concepts of inheritance of the characters from generation to generations and knowing the main basis for this.
- CO5.** Studying the significance and basis of recombination in inheritance
- CO6.** Getting the skills of constructing a genetic map from the frequencies of recombination and applying the concept of Linkage of genes.
- CO7.** Knowing the basic principles and methods of Plant breeding and their applications in the improvement of crops

PAPER VI: Plant Ecology & Phytogeography

- CO1.** Understanding the basic principles of the ecosystem structure and functions in relation to its dynamics
- CO2.** Observation of different types of ecosystem to appreciate the organization and operations responsible for the ecological balance
- CO3.** Knowing the facts about the ecological factors like light, soil, temperature etc.
- CO4.** Identifying the productivity of the ecosystem by understanding the concepts of energy production and its flow in the ecosystem.
- CO5.** Understanding the centers of distribution of plants by getting knowledge of basics in phytogeography.
- CO6.** Understanding the basics of Biodiversity, its importance, threats and methods of conservation.

PAPER VII: Organic Farming:

- CO1.** To appreciate the significance of organic farming
- CO2.** To understand the requirements for organic farming
- CO3.** To identify the nutritional requirements of crop production
- CO4.** To produce the compost and green manures

Ability for the: Identification of mineral deficiencies, Compost preparation techniques, Green manure cultivation methods, Application techniques of organic manures, To use them for the crop production

PAPER VIII A1: Plants and human welfare

- CO1.** Understanding the relation between plants and human beings.
- CO2.** Understanding Genetic diversity, Species diversity, Plant diversity at the ecosystem Agro biodiversity and cultivated plant taxa, wild taxa.
- CO3.** Knowing about the Management of plant biodiversity: Organizations associated with biodiversity management methodology for execution.
- CO4.** Appreciating the Environmental Impact Assessment (EIA), Geographical Information System
- CO5.** Getting awareness on Conservation of genetic diversity, species diversity
- CO6.** Appreciating the Importance of forestry, their utilization and commercial aspects

PAPER VIIIA2: Ethnobotany and Medicinal Botany

- CO1.** Understanding Ethnobotany as an interdisciplinary science and the relevance of ethnobotany in the present context.
- CO2.** Appreciating the role of ethnobotany in modern medicine with special example.
- CO3.** Understanding the role of ethnic groups in the conservation of plant genetic resources.
- CO4.** Getting knowledge about Biopiracy, Intellectual Property Rights and protection of traditional Knowledge.
- CO5.** Knowing about the History, Scope and Importance of Indigenous Medicinal Sciences like Ayurveda, Sidda and Yunani.
- CO6.** Understanding the Conservation strategies of endangered and endemic medicinal plants

PAPER VIII A3: Pharmacognosy and Phytochemistry

- CO1.** Understand the importance and role of pharmacognosy in determining the purity of crude drugs.
- CO2.** Know the methods of organoleptic and microscopic evaluation for the identification of crude drugs.
- CO3.** Knowing the secondary metabolite biosynthetic pathways.
- CO4.** Understand the methods for testing the secondary metabolites like alkaloids, phenols, flavonoids, tannins and sterols and applied the learnt knowledge in phytochemistry.
- CO5.** Known the use of enzymes, proteins and aminoacids as drugs.