

# DEPARTMENT OF BOTANY

PROGRAMME OUTCOMES & SPECIFIC OUTCOMES			
Programme	Combination	Programme Outcomes	Programme Specific outcomes
B.Sc.	Botany Zoology Chemistry	Expertise in the basic sciences provides the students with opportunities to go for Higher Education and also employment opportunities in industries, diagnostics, quality control and research Promotes an in-depth exploration in specific fields,current ways of thinking, new discoveries, and methodologies of the discipline leading the way towards biological research, health professions, business, or education.	<b>Botany:</b> Understand plant diversity in terms of structure, function and environmental relationships, the evaluation of plant diversity, Plantclassification ,the role of plants in the functioning of the global ecosystem <b>Zoology:</b> Understand how animals have evolved, how they function, and the ways in which they interact with their environment. <b>Chemistry:</b> The student after completing UG programme with Chemistry is eligible to join in M.Sc Chemistry, Technical assistants in Pharmaceutical companies and diagnostic centers
B.Sc.	Biotechnology Botany Chemistry	Expertise in the basic sciences provides the students with opportunities to go for Higher Education and also employment opportunities in industries, diagnostics, quality control and research. Promotes an in-depth exploration in specific fields, current ways of thinking, new discoveries, and methodologies in the areas of biological research, health professional development, business and Education.	<b>Biotechnology:</b> 1. Master fundamental skills to function effectively as professionals and continue learning within the field of Biology 2. Gain fundamental Knowledge on Bio-molecules of microorganisms 3. The integrated use of Biotechnology, Botany and Chemistry to achieve the technological application of scientific and engineering principles for processing of materials by biological agents to provide goods and service for the welfare of manenvironmental relationships, the evaluation of plant diversity, Plant classification, the role of plants in the functioning of the glob

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## COURSE OUTCOMES

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1321	Paper-I: Microbial Diversity, Algae and Fungi	C01	To know the origin and evolution of life, the student learns formation of earth in the universe and existence of life on earth
			C02	To know about microbial diseases regarding to various micro organism in man, animals and plants.
			C03	To gain knowledge on algae for growing the populations with its lot of economic importance as food, fodder and feed etc.
			C04	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.
2	2321	Paper – II: Diversity of Archaeogoniates and Plant Anatomy	C01	To know the structure of non vascular plants
			C02	To know the importance of mass plants
			C03	To know the structure of vascular plants
			C04	To know the importance of Anatomy
3	3321	Paper-III: Plant Taxonomy and Embryology	C01	To gain knowledge on characteristics and categorization of plants.
			C02	Students can have an idea on various types of classifications based on the morphological and anatomical characters.
			C03	Students can gain knowledge on categorising plants into respective Polypetalae families
			C04	To understand the reproductive parts of flower, their role in pollination and fertilization, differences in types of embryogeny and endosperm development.

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4	4321	Paper-IV: Plant Physiology and Metabolism	C01	To gain knowledge on role of water, enzymes in plant metabolism
			C02	To understand Transpiration, Ascent of sap and Photosynthetic mechanisms in various types of plants
			C03	Students gain knowledge on types and modes of Respiration, Nitrogen metabolism and lipid metabolism
			C04	Students get awareness on types and role of phytohormones in plant metabolism, Dormancy mechanisms and vernalization
5	5321	Paper-V: Cell Biology, Genetics and Plant Breeding	C01	Students going knowledge regarding the unit of life that is cell, types, functions of the various organelles of the cell
			C02	The student know the DNA Structure which is very useful at molecular levels of genes in various aspects of life quality of genetical characters and forensic methods of the society etc.
			C03	Selection of the best genetic cell characters by advanced molecular techniques in genetics and in crop improvement.
			C04	Plant breeding techniques with help of biotechnology at molecular level breeding with variety of special environmental Habbarder.
6	5322	Paper-VI: Ecology, Phytogeography and Biodiversity	C01	To have the knowledge of Environment
			C02	To understand the importance of Climatic factors like light, temperature, in related to growth of plant
			C03	To know about the Phytogeography
			C04	To have the knowledge of Biodiversity
7	6321	Paper-VII: General Elective : Plant Tissue Culture And Biotechnology	C01	To know about the various methods of Tissue Culture
			C02	To know the importance of Tissue Culture .
			C03	To know the importance of Biotechnology.
			C04	To know the applications of Biotechnology
8	6322	Cluster Elective I: Plant Diversity & Human Welfare	C01	To understand the levels and value of biodiversity
			C02	Impacts of the loss of biodiversity, Conservation methods & different organizations associated with it.
			C03	To understand the concepts of Environmental Impact Assessment & Solid and liquid waste management
			C04	Role of plants and microbes in human welfare
9	6323	Cluster Elective II: Ethnobotany and Medicinal Botany	C01	To understand the concept of ethno botany
			C02	Role of ethnobotany in modern medicine with plant examples like Rauwolfia, Trichopus, Withania etc.,
			C03	To know the need of protecting the traditional knowledge of the tribal people
			C04	To understand the concept of different systems of medicine (AYUSH)
10	6324	Cluster Elective III: Pharmacognosy	C01	Importance of pharmacognosy, Classification of crude drugs & drug evaluation methods
			C02	Complete knowledge of secondary metabolites

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		&Phytochemistry	C03	Role of Phytochemicals in medicine
			C04	To gain knowledge on use of different enzymes, proteins and amino acids as drugs.