

ACADEMIC YEARS 2017-2020			
BOTANY			
1		<b>Microbial diversity, Algae and Fungi</b>	<p>After Completion of this course the student would be able to:</p> <p><b>CO1:</b> Learn about the structure, pigmentation, food reserves and methods of reproduction of Algae</p> <p><b>CO2:</b> Learn about the structure, pigmentation, food reserves and methods of reproduction of Fungi</p> <p><b>CO3:</b> Know about the Economic importance of algae, Fungi and lichen</p> <p><b>CO4:</b> Studied some plant diseases with special reference to the causative agents, symptoms, etiology and control measures.</p>
2		<b>Diversity of Archegoniate and plant Anatomy</b>	<p>After Completion of this course the student would be able to:</p> <p><b>CO1:</b> Learn about the general characters and classification by K.R. Sporne, stellar evolution in Pteridophytes, heterospory and origin of seed habit.</p> <p><b>CO2:</b> Know about the structure, life history and Economic importance of Gymnosperms.</p> <p><b>CO3:</b> Studied the methods of fossilization and fossil plants</p>
3		<b>Plant Taxonomy and Embryology</b>	<p>After Completion of this course the student would be able to:</p> <p><b>CO1:</b> Learn the types of classifications- artificial, Natural and phylogenetic.</p> <p><b>CO2:</b> Gain knowledge about Botanical Survey of India (BSI).</p> <p><b>CO3:</b> Briefly studied on herbarium techniques.</p> <p><b>CO4:</b> Learn the taxonomic evidences from molecular, numerical and chemicals.</p> <p><b>CO5:</b> Learn about double fertilization and their significance</p> <p><b>CO6:</b> Know about the Structure and development of dicot and monocot embryos</p>
4		<b>Plant Physiology and Metabolism</b>	<p>After Completion of this course the student would be able to:</p> <p><b>CO1:</b> Know about the requirement of mineral nutrition for plant growth</p> <p><b>CO2:</b> Understand the process of Photosynthesis, Respiration and Nitrogen metabolism</p> <p><b>CO3:</b> Learn about Sensory photobiology</p> <p><b>CO4:</b> Know about the Plant Growth hormones .</p>

5		<b>Cell Biology, genetics and plant breeding</b>	<p>After Completion of this course the student would be able to:</p> <p><b>CO1:</b> Learn the structure, chemistry and functions of cellular organelles Meristems</p> <p><b>CO2:</b> Gain knowledge on fixation, dehydration, embedding, hand sectioning, microtomesectioning</p> <p><b>CO3:</b> Learn about Mendelian principles</p> <p><b>CO4:</b> Know about gene mapping methods &amp; Extra chromosomal inheritance</p> <p><b>CO5:</b> Familiarize about Evolution &amp; Emergence of evolutionary thoughts</p> <p><b>CO6:</b> Gain knowledge on Plant breeding techniques</p>
6		<b>Plant Ecology and Phytogeography</b>	<p>After Completion of this course the student would be able to:</p> <p><b>CO1:</b> Learn the Approaches to the study of Ecology (Autecology, Synecology and Genecology)</p> <p><b>CO2:</b> Understand the population &amp; Community Ecology - concept of metapopulation</p> <p><b>CO3:</b> Analysis the phytogeography or phytogeographical division of India</p> <p><b>CO4:</b> Evaluate energy sources of ecological system</p> <p><b>CO5:</b> Assess the adaptation of plants in relation to light, temperature, water, wind and fire.</p>
7		<b>Nursery, Gardening and Floriculture.</b>	<p><b>CO1:</b> Learn the importance of horticulture – career and occupational opportunities</p> <p><b>CO2:</b> Know about hydroponics and its importance</p> <p><b>CO3:</b> Learn the techniques of gardening - Types, Methods &amp; Tools</p> <p><b>CO4:</b> Learn about Olericulture - Cultivation of commercial flower crops</p>

8		<b>Plant diversity and human welfare</b>	<p>After Completion of this course the student would be able to:</p> <p><b>CO1:</b> Develop understanding of the concept and scope of plant biodiversity</p> <p><b>CO2:</b> Identify the causes and implications of loss of biodiversity</p> <p><b>CO3:</b> Apply skills to manage plant biodiversity</p> <p><b>CO4:</b> Utilize various strategies for the conservation of biodiversity</p> <p><b>CO5:</b> Conceptualize the role of plants in human welfare with special reference to India</p>
9		<b>Ethno botany and medicinal botany</b>	<p>After Completion of this course the student would be able to:</p> <p><b>CO1:</b> Recognize the basic medicinal plants</p> <p><b>CO2:</b> Apply techniques of conservation and propagation of medicinal plants.</p> <p><b>CO3:</b> Setup process of harvesting, drying and storage of medicinal herbs</p> <p><b>CO4:</b> Propose new strategies to enhance growth of medicinal herbs considering the practical issues pertinent to India</p> <p><b>CO5:</b> Conceptualize ethnobotany as an interdisciplinary science</p> <p><b>CO6:</b> Restate the established methodology of ethnobotany studies</p> <p><b>CO7:</b> Categorize various indigenous ethnic groups and their environmental practices.</p> <p><b>CO8:</b> Understand the legalities associated with ethnobotany.</p>

10		Pharmacognosy and phyto chemistry	<p>After Completion of this course the student would be able to:</p> <p><b>CO1:</b> Understand the fundamental concepts of phytochemistry</p> <p><b>CO2:</b> Develop the skills of cold and hot solvent extraction.</p> <p><b>CO3:</b> Examine the solvent fractionation.</p> <p><b>CO4:</b> Evaluate the process of screening each fraction for plant pathogens or human pathogens</p>
----	--	--------------------------------------	---