COURSE OUTCOMES (CO) for Bachelor of Science, Botany

CO1	Understands the world of microbes, algae, fungi and lichens and understands the economic, environmental and pathological importance of bacteria and fungi and their ecological and industrial significance. Learns about Cultivation Technology of different species of edible algae and mushroom.Know the role of microorganisms in different production processes in order to improve these processes and ensure their success.
CO2	Imparting an insight into the internal structure and reproduction of the most evolved group of plants, the Angiosperm. Knows the different plant reproduction systems, how they affect genetic variability and how they condition the strategies and processes of selection and breeding.
CO3	Understand the diversity in habits, habitats and organisation of various groups of plants and impart an insight into the modern classifications and evolutionary trends in lower forms of plants like Bryophytes, Pteridophytes and Gymnosperms.
CO4	Understand the morphology and development of reproductive parts and get an insight in to the fruit and seed development. Understand the significance of Paleobotany &Palynology and its applications.
CO5	Understand the systems of classification of angiosperms, nomenclature and interdisciplinary approaches and can identify plants in their natural habitats.
CO6	Recognise members of the major angiosperm families by identifying their diagnostic features and economic importance and evaluate the economic importance of selected angiospermic plants. Describe the cultural uses of plants for food, fiber, medicine, biotechnology, etc and transfer knowledge of Agriculture/Horticulture in the field of agricultural research especially i horticulture including field of economically important plants.
CO7	Understands about the inter relationship between living world & environment and Identify plant species important in different ecosystems.
CO8	Describe Origin & evolution, and appreciates genetic diversity of Algae,bacteria, fungi, Pteridophyte,Gymnosperms and angiosperms. Describe major evolutionary lineages of plants and their defining characteristics.
CO9	Describe cytological, biochemical, physiological and genetic aspects of the cell, including cellular processes common to all cells, to all eukaryotic cells as well as processes in certain specialized cells and Apply quantitative problem-solving skills to genetics problems and issues.
CO10	Demonstrate an understanding of various physiological and biochemical processes in plants at both molecular and organismal level.
CO11	Understand about the plant tissue culture & describe about the Biotechnological process for the development of genetically modified microbes and plant for managing environmental issues and high yield respectively.
CO12	Select method of data collection and apply different analysis method. Correlation and statically inference of different observed data.
CO13	Substantial multidisciplinary knowledge about natural resources management & Use data collection and analysis tools (such as field methods, GIS, modelling, and statistics) to develop plans for managing resource/environmental challenges and adapt plans in response to rapid change.

COURSE SPECIFIC OUTCOMES(CSO). B.Sc. BOTANY HONOURS	CO1	CO2	CO3	CO4	CO5	CO6	CO7	CO8	CO9	CO10	CO11	C012	CO13
BOT-A-CC-1-1(Phycology and microbiology)	✓												
BOT-A-CC-1-2(Mycology and plant pathology)	✓												
BOT-A-CC-2-(Plant anatomy)		✓											
BOT-A-CC-2-4(Archegoniate)			✓										
BOT-A-CC-3-5(Palaeobotany and palynology)				✓									
BOT-A-CC-3-5(Reproductive biology of Angiosperms)		✓		✓									
BOT-A-CC-3-7(Plant systematics)					✓	✓							
BOT-A-CC-4-8(Plant geography, ecology and evolution)							✓	✓					
BOT-A-CC-4-9(Economic Botany)						✓							
BOT-A-CC-4-10(Genetics)									✓				
BOT-A-CC-5-11(Cell and molecular biology)									✓				
BOT-A-CC-5-12(Biochemistry)										✓			
BOT-A-CC-6-13(Plant physiology)										✓			
BOT-A-CC-6-14(Plant metabolism)										✓			
BOT-A-DSE-A-5-1(Biostatistics)												✓	
BOT-A-DSE-A-5-2(Industrial and environmental Biology)	✓										✓		
BOT-A-DSE-A-6-3(Medicinal and ethnobotany)						✓							
BOT-A-DSE-A-6-4(Stress biology)										✓			
BOT-A-DSE-B-5-5(Plant Biotechnology)											✓		
BOT-A-DSE-B-5-6(Horticultural practices and post Harvest Technology)						✓							
BOT-A-DSE-B6-7(Research Methodology)												✓	
BOT-A-DSE-B-6-8(Natural resourceManagement)													✓
BOT-A-SEC-A-3-1(Applied Phycology, Mycology and Microbiology)	✓										✓		
BOT-A-SEC-A-3-2(Biofertilizers)	✓										✓		
BOT-A-SEC-B-4-3(Plant Breeding)		✓											
BOT-A-SEC-B-4-4(Mushroom culture technology)	✓										✓		