BOTANY PG OUTCOME

Phycology, Bryology, Pteridology and Gymnosperms	 In depth analysis of the diversity and evolutionary significance of lower plant groups. Classify algae, bryophytes, pteridophytes and gymnosperms. Understand the economic and ecological importance of lower plant groups. Understand the role of gymnosperms as a connecting link between pteridophytes and angiosperms
Mycology and Lichenology, Microbiology and Plant Pathology	 Detailed analysis of microbial life and their economic importance Identify plant disease and find out control measures in our locality Realize the significance of study of plant disease in terms of crop production Fungi- Algae symbiotic association, and lichen types, economic importance.
Angiosperm Anatomy, Embryology, Palynology and Lab Techniques	 Understand non-living inclusions of plants their significance Detailed study on tissues and their functions Primary and secondary growth of plant organs. Explain various developmental details of angiosperms. Realize the significance and applications of palynology. Prepare permanent slides, applying the histo chemical techniques.
Cell Biology, Molecular Biology and Biophysics	 Detailed analysis :- ultra-structure of a plant cell. Enumerate the functions of each cell organelle. Draw and explain the structure of biomolecules. Explain the concepts in molecular biology in applicational level, detailed study on operons
Cytogenetics, Genetics, Biostatistics, Plant	 Appreciate the facts behind heredity and variations. Understand the basic principles of inheritance. Solve problems related to classical genetics. Predict the pattern of inheritance.

Breeding and	• Understand various plant breeding techniques.
Evolution	• Realize the role of plant breeding in increasing crop productivity.
	• Understand the origin and history of life and detailed study on
	paleontological study
	• Categorization of life science experiment, data analysis based on
	biostatical equation
Dlant Faalaar	• Canced environments of the need to concern his diversity and notyped
Concernation	• Spread awareness of the need to conserve biodiversity and natural
Conservation Dislama Disata	resources.
Biology, Phyto	• Analyze the reasons for climate change and find out ways to
geography	
and Forest Botany	• Realize the importance of ecological studies.
	Develop environmental concern in all their actions and practice
	Reduce, Reuse and Recycle.
	• Iry to reduce pollution and environmental hazards and change
	their attitude towards throwing away plastic wastes.
	• Study of minor-major forest products
Plant Physiology,	• Identify the physiological responses of plants.
Metabolism and	 Analyze the role of external factors in controlling the physiology
Biochemistry	of plants.
2-00	• Explain the metabolic processes taking place in each cell.
	 Appreciate the energy fixing and energy releasing processes taking
	place in cells.
	• Explain the structure, breakdown and synthesis of all
	biomolecules.
Angiosperm	• Detailed study on diverse morphology of angiosperms.
Morphology and	• Learning the recent APG system of classification
Taxonomy and Plant	• Identify and classify plants based on taxonomic principles.
Resources	• Make scientific illustrations of vegetative and reproductive
	structures of plants of selected 25 families.
	• Develop the skill of scientific imaging of plants.
	• Frequent field collection.
	• Conservation of rare/endemic plants.
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Biotechnology and	• Critically evaluate the advantages of tissue culture over
Bioinformatics	conventional methods of propagation.

	Modern techniques in tissue culture
	• Genetically engineered seeds. DNA Fingerprinting etc.
	• Analyze the role of biotechnology in daily life especially to
	familiarize their role in scientific areas, sequencing etc.
	 Study the detailed aspects of bioinformatics
	• Study the detailed aspects of bioinformatics.
Plant Tissue Culture	• Detailed study on the advantages of tissue culture over
	conventional methods of propagation.
	• Modern techniques in tissue culture
	 Familiarize bioreactor based synthesis of secondary metabolites
	• I animalize bioreactor based synthesis of secondary metabolites
Genetic Engineering	• Familiarization and detailed on Genetically Engineered Crops.
	• Detailed study on Recombinant DNA technology
	• Introduction to molecular techniques Such as Blotting.
	Hybridization etc
Pathology of	• Identify plant disease and find out control measures in our locality
Plantation Crops and	• Realize the significance of study of plant disease in terms of crop
Spices	production
•	 Detailed study on Plant disease Principles.
Ability Enhancement	• Develop the scientific technique of writing literature reviews
Course: Scientific	and research papers
Documentation	• how to present a paper
and Report writing	• Preparation of oral presentations
	• Preparation of scientific posters
Professional	• Realize the need of IPRs in current scenario in India and world
Competency Course:	• Procedure of obtaining patents, Protection of Plant Varieties
Intellectual Property	• Moral Issues in Patenting Biotechnological inventions
Rights	