

B.Sc. Botany (Minor) Semester I/II Syllabus

Unit-I

- Introduction to Botany, Definition, scope, and importance, Branches of botany
- Cell Biology : Cell structure and function, Cell division and differentiation
- Plant Anatomy :Root, stem, and leaf anatomy, Tissue organization
- Plant Morphology :Plant body organization, Leaf, stem, and root modifications

Unit-II

- Algae :Classification and characteristics, Ecological importance
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Unit-III

Bryophytes :Classification and characteristics,Life cycle

Unit-IV

Pteridophytes :Classification and characteristics, Ecological importance

Unit-V

Gymnosperms:Classification and characteristics,Life cycle

Unit-VI


Plant Physiology: Photosynthesis, Light-dependent reactions, Calvin cycle, Respiration, Aerobic and anaerobic respiration, Electron transport chain

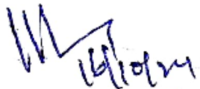
Unit-VII

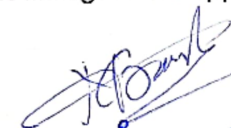
Plant Ecology: Ecological Principles, Ecosystem concept, Energy flow and nutrient cycling, Ecosystems, Terrestrial and aquatic ecosystems


Unit-VIII

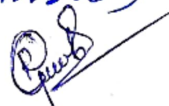
Genetics and Evolution, Mendelian Genetics, Laws of inheritance, Genetic linkage and mapping
Molecular Genetics : DNA structure and replication



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