Course Outcomes (COs) - SYBSc Botany (SPPU)

Semester III

BOT-201-MJ: Taxonomy of Angiosperms

CO1: Understand principles of plant taxonomy.

CO2: Classify angiosperms using modern systems.

CO3: Identify plant families based on morphology.

CO4: Apply nomenclature rules.

CO5: Develop skills in plant identification.

BOT-202-MJ: Plant Physiology and Metabolism

CO1: Understand plant physiological processes.

CO2: Explain photosynthesis and respiration.

CO3: Understand enzyme activity and metabolism.

CO4: Analyze plant growth regulators.

CO5: Apply physiology in agriculture.

BOT-203-MJP: Practical (Based on BOT-201 & BOT-202)

CO1: Identify plant families practically.

CO2: Perform physiology experiments.

CO3: Use lab instruments.

CO4: Record scientific observations.

CO5: Develop experimental skills.

BOT-241-MN: Horticulture

CO1: Understand horticulture principles.

CO2: Study cultivation practices.

CO3: Learn garden management.

CO4: Apply horticulture techniques.

CO5: Develop practical skills.

BOT-244-MNP: Practical Based on Horticulture

CO1: Perform horticulture practices.

CO2: Identify tools and plants.

CO3: Develop nursery skills.

CO4: Record observations.

CO5: Apply field knowledge.

VSC-224-BOT-P: Plant Ecology and Biodiversity

CO1: Understand ecological concepts.

CO2: Study biodiversity patterns.

CO3: Analyze ecosystems.

CO4: Understand conservation methods.

CO5: Apply ecological knowledge.

IKS-BOT-T: Medicinal Plants in Traditional Systems

CO1: Understand traditional medicinal systems.

CO2: Identify medicinal plants.

CO3: Study uses of plants.

CO4: Understand ethnobotany.

CO5: Apply knowledge in healthcare.

FP-231-BOT: Field Project

CO1: Conduct field survey.

CO2: Collect plant data.

CO3: Analyze observations.

CO4: Prepare report.

CO5: Develop research skills.

Semester IV

BOT-251-MJ: Plant Anatomy & Embryology

CO1: Understand plant internal structure.

CO2: Study tissues and anatomy.

CO3: Understand embryology.

CO4: Analyze development stages.

CO5: Apply anatomical knowledge.

BOT-252-MJ: Plant Biotechnology

CO1: Understand biotechnology basics.

CO2: Learn tissue culture.

CO3: Study genetic engineering.

CO4: Apply biotech techniques.

CO5: Understand applications.

BOT-253-MJP: Practical

CO1: Perform anatomy experiments.

CO2: Practice tissue culture basics.

CO3: Use lab equipment.

CO4: Record observations.

CO5: Develop lab skills.

BOT-293-MN: Herbal Products Technology

CO1: Understand herbal product preparation.

CO2: Study medicinal plants processing.

CO3: Learn formulation techniques.

CO4: Understand quality control.

CO5: Apply knowledge in industry.

BOT-296-MNP: Practical Based on Herbal Products

CO1: Prepare herbal formulations.

CO2: Evaluate products.

CO3: Perform quality tests.

CO4: Record data.

CO5: Develop practical skills.

CEP-232-BOT: Community Engagement Programme

CO1: Participate in community activities.

CO2: Apply botanical knowledge socially.

CO3: Develop communication skills.

CO4: Understand societal needs.

CO5: Promote environmental awareness.