



Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, CHHATRAPATI SAMBHAJINAGAR.  
DEPARTMENT OF BOTANY

M.Sc. Botany Program Outcome Matrix

Required Courses and Course Outcomes	M.Sc. Botany Course Program Outcomes Semester: I											
	Foundational Knowledge	Research and Analytical Skills	Problem-Solving and Critical Thinking	Practical and Technical Proficiency	Communication Skills	Ethical and Social Responsibility	Teamwork and Collaboration	Entrepreneurship and Innovation	Lifelong Learning	Global and Indian Perspectives	Application of Botany	Career Readiness
Semester: I												
SAD265001T												
Cell and Molecular Biology												
CO1: Comprehensive Understanding of Cell Structure and Membrane Dynamics	✓	✓		✓				✓	✓		✓	
CO2: In-Depth Knowledge of Cellular Organelles and Their Functions	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓
CO3: Proficiency in Cell Cycle Regulation and Cytoskeletal Functions	✓		✓		✓	✓		✓	✓	✓		✓
SAD265011T												
Biology & Diversity of Algae and Bryophytes												
CO1: Comprehensive Knowledge of Algal Diversity and Classification	✓					✓						
CO2: In-Depth Understanding of Algal Structure, Reproduction, and Economic Importance	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
CO3: Proficiency in Bryophyte Biology, Morphology, and Bioprospecting	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
SAD265021T												
Taxonomy of Angiosperms												
CO1: Mastery of Angiosperm Classification and Phylogeny	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CO2: Proficiency in Botanical Nomenclature and Taxonomic Evidence	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CO3: Practical Skills in Taxonomy and Herbarium Techniques	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SAD265001P												
Practical - Cell and Molecular Biology												
CO1: Proficiency in Cytological Techniques	✓			✓	✓	✓			✓		✓	
CO2: Expertise in Molecular and Biochemical Analysis	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓

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Crop Genetics and Plant Breeding – I												
CO1: Proficiency in Floral Biology and Hybridization Techniques	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CO2: Competence in Analyzing Pollen Characteristics and Plant Sterility	✓	✓	✓	✓	✓	✓	✓	✓		✓		
CO3: Expertise in Chromosomal Analysis for Genetic Studies	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓
SBD265051T												
Mycology and Plant Pathology-I												
CO1: Understanding of Plant Pathology and Disease Classification	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
CO2: Knowledge of Plant Diseases Caused by Parasites and Nematodes	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
CO3: Proficiency in Identifying and Managing Specific Plant Diseases	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SBD265051P												
Mycology and Plant Pathology-I												
CO1: Proficiency in Specimen Collection and Preservation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CO2: Skillful Application of Diagnostic Techniques and Instrumentation	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
CO3: Competence in Disease Identification and Field Studies	✓	✓	✓	✓	✓	✓		✓	✓			✓
SBD265061T												
Taxonomy of Angiosperms – I												
CO1: Comprehensive Understanding of Angiosperm Characteristics and Taxonomy Principles	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CO2: Critical Analysis of Angiosperm Phylogeny and Classification Systems	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
CO3: Application of Taxonomic Concepts and Phylogenetic Relationships	✓	✓	✓	✓	✓	✓		✓	✓		✓	
SBD265061P												
Practical - Taxonomy of Angiosperms – I												
CO1: Skillful Analysis of Morphological and Evolutionary Trends	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CO2: Proficient Identification and	✓	✓	✓	✓		✓	✓	✓	✓		✓	

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