

Mohanlal Sukhadia University

Udaipur

Department of Botany



Syllabus and Scheme of Examination

For

M.Sc. CBCS Programme Botany

Effective from July, 2017

Department of Botany
Mohanlal Sukhadia University
CBCS Scheme of Syllabus for M.Sc. Botany

Course code	Title of the Course	No. of credits	University exam	Internal assessment	Total
SEMESTER I					
M1BOT01-CT01	BIOLOGY AND DIVERSITY OF PLANTS (MICROBES, ALGAE AND FUNGI)	4	80	20	100
M1BOT02-CT02	BIOLOGY AND DIVERSITY OF ARCHEGONIATE	4	80	20	100
M1BOT03-CT03	CELL BIOLOGY AND BIOCHEMISTRY	4	80	20	100
M1BOT04-CT04	PLANT ECOLOGY AND BIODIVERSITY CONSERVATION	4	80	20	100
M1BOT05-CP01	PRACTICAL	4	80	20	100
M1BOT06-CP02	PRACTICAL	4	80	20	100
			480	120	600
SEMESTER II					
M2BOT01-CT05	GENETICS AND EVOLUTION	4	80	20	100
M2BOT02-CT06	FUNDAMENTALS OF MOLECULAR BIOLOGY	4	80	20	100
M2BOT03-CT07	STRUCTURAL AND REPRODUCTIVE PLANT BIOLOGY	4	80	20	100
M2BOT04-CT08	PLANT GROWTH AND DEVELOPMENT	4	80	20	100
M2BOT05-CP03	PRACTICAL	4	80	20	100
M2BOT06-CP04	PRACTICAL	4	80	20	100
BOT-SP	SKILL COURSE ELECTIVE 1 (select any one from the list)	2	80	20	100
			560	140	700
SEMESTER III					
M3BOT01-CT09	PLANT PHYSIOLOGY	4	80	20	100
M3BOT02-CT10	PLANT SYSTEMATICS & RESOURCES UTILIZATION	4	80	20	100
M3BOT01-ET01 (A/B/C/D)	DSE 1 (select any one from the list)	4	80	20	100
M3BOT02-ET02 (A/B/C/D)	DSE 2 (select any one from the list)	4	80	20	100
M3BOT05-CP05	PRACTICAL	4	80	20	100

M3BOT06-EP01	PRACTICAL	4	80	20	100
			480	120	600
SEMESTER IV					
M4BOT01-CT11	GENETIC ENGINEERING OF PLANTS	4	80	20	100
M4BOT02-CT12	TECHNIQUES IN PLANT SCIENCES	4	80	20	100
M4BOT03-ET03 (A/B/C/D/E)	DSE 3 (select any one from the list)	4	80	20	100
M4BOT04-ET04	MINOR RESEARCH PROJECT	4	80	20	100
M4BOT05-CP06	PRACTICAL	4	80	20	100
M4BOT06-EP02	PRACTICAL	4	80	20	100
BOT-SP	SKILL COURSE ELECTIVE 2 (select any one from the list)	2	80	20	100
			560	140	700

Core Courses

Course Code	Title of the Course
M1BOT01-CT01	BIOLOGY AND DIVERSITY OF PLANTS (MICROBES, ALGAE AND FUNGI)
M1BOT02-CT02	BIOLOGY AND DIVERSITY OF ARCHEGONIATE
M1BOT03-CT03	CELL BIOLOGY AND BIOCHEMISTRY
M1BOT04-CT04	PLANT ECOLOGY AND BIODIVERSITY CONSERVATION
M2BOT01-CT05	GENETICS AND EVOLUTION
M2BOT02-CT06	MOLECULAR BIOLOGY
M2BOT03-CT07	STRUCTURAL AND REPRODUCTIVE PLANT BIOLOGY
M2BOT04-CT08	PLANT GROWTH AND DEVELOPMENT
M3BOT01-CT09	PLANT PHYSIOLOGY
M3BOT02-CT10	PLANT SYSTEMATICS & RESOURCES UTILIZATION
M4BOT01-CT11	GENETIC ENGINEERING OF PLANTS
M4BOT02-CT12	TECHNIQUES IN PLANT SCIENCES
M1BOT05-CP01	PRACTICAL 1
M1BOT06-CP02	PRACTICAL 2
M2BOT05-CP03	PRACTICAL 3
M2BOT06-CP04	PRACTICAL 4
M3BOT05-CP05	PRACTICAL 5
M4BOT05-CP06	PRACTICAL 6

Discipline Specific Electives

DSE1

Course Code	Title of the course
M3BOT01-ET01A	APPLIED PLANT SCIENCES
M3BOT01-ET01B	BIOINFORMATICS
M3BOT01-ET01C	PLANT TISSUE CULTURE
M3BOT01-ET01D	BIOSYSTEMATICS

DSE2

Course Code	Title of the course
M3BOT02-ET02A	APPLIED PHYCOLOGY
M3BOT02-ET02B	BIOLOGY AND EVOLUTION IN BRYOPHYTES
M3BOT02-ET02C	AGROSTOLOGY
M3BOT02-ET02D	INDUSTRIAL BIOTECHNOLOGY AND BIOPROCESS ENGINEERING

DSE3

Course Code	Title of the course
M4BOT03-ET03A	ADVANCED PLANT PATHOLOGY
M4BOT03-ET03B	STRESS PHYSIOLOGY
M4BOT03-ET03C	COMMERCIALIZATION OF MICROPROPAGATION TECHNOLOGIES
M4BOT03-ET03D	SECONDARY METABOLITE PRODUCTION

DSE4

M4BOT04-ET04 (A/B/C/D/E)	Minor Research Project: Credit hours for minor research project and marking scheme are equivalent to other DSEs. Students have to submit a hardcopy of dissertation and give a presentation of minor research work for evaluation. Details of dissertation proforma and marking scheme is enclosed as Annexure I.
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DSE Practicals

Course Code	Title of the course
M3BOT06-EP01	PRACTICAL 1
M4BOT06-EP02	PRACTICAL 2

Skill Course Elective 1 (select any one option)

Course Code	Title of the course
BOT-SP01A	ENGLISH COMMUNICATION
BOT-SP02A	COLLECTION, PROCESSING, PRESERVATION & SALE OF PLANT MATERIALS
BOT-SP03A	BIOFERTILIZERS
BOT-SP04A	BIOINFORMATICS

Skill Course Elective 2 (select any one option)

Course Code	Title of the course
BOT-SP05A	INTELLECTUAL PROPERTY RIGHT
BOT-SP06A	NURSERY, GARDENING & GREEN HOUSE PRACTICES
BOT-SP07A	ENVIRONMENTAL MONITORING, MANAGEMENT AND RESTORATION
BOT-SP08A	SCIENTIFIC WRITING