

Scheme of Teaching and Examination for M. Sc. (Botany)
As per NEP 2020 Structure and Credit Distribution of PG Degree Program
for Two Year Choice Based Credit System (Semester Pattern) Effective from 2023-2024

Semester I

S N	Course Category	Name of Course	Course Code	Teaching Scheme (hrs.)			Total (Hrs)	Total Credit	Examination Scheme						
				Th	TU	P			Theory				Practical		
									Exam Hrs.	SEE	CIE	Min.	SEE	CIE	Min.
1	DSC	Microbiology, Algae and Fungi	MBO1T01	4	-	-	4	4	3	80	20	40	-	-	-
2	DSC	Bryophytes and Pteridophytes	MBO1T02	4	-	-	4	4	3	80	20	40	-	-	-
3	DSE	Elective 1 (Choose any One) 1. Palaeobotany and Gymnosperms 2. - Equivalent online course	MBO1T03	4	-	-	4	4	3	80	20	40	-	-	-
4	RM	Research Methodology	MBO1T04	4	-	-	4	4	3	80	20	40	-	-	-
5	LAB 1	Microbiology, Algae, Fungi, Plant Pathology, Bryophytes, Pteridophytes)	MBO1P01	-	-	6	6	3	2-6*				50	50	50
6	LAB 2	Palaeobotany, Gymnosperms, Cytology, Genetics, Cell Biology and Research Methodology	MBO1P02	-	-	6	6	3	2-6*				50	50	50
Total				16	-	12	28	22	-	320	80	160	100	100	100
Marks of Theory Component= 400 Marks of Practical Component= 200 TOTAL =600Min. Passing: 200+100=300															

Semester II

S N	Course Category	Name of Course	Course Code	Teaching Scheme (hrs.)			Total (Hrs.)	Total Credit	Examination Scheme						
				Th	TU	P			Theory				Practical		
									Exam Hrs.	SEE	CIE	Min	SEE	CIE	Min
1	DSC	Cytology and Genetics	MBO2T05	4	-	-	4	4	3	80	20	40	-	-	-
2	DSC	Plant Physiology and Biochemistry	MBO2T06	4	-	-	4	4	3	80	20	40	-	-	-
3	DSE	Elective 2 (Choose any one) 1. Cell Biology 2. Equivalent online course	MBO2T07	4	-	-	4	4	3	80	20	40	-	-	-
4	OJT	OJT	MOJ2P01	-	-	8	8	4	3-8*	-	-	-	50	50	50
5	LAB 1	Plant Physiology, Molecular Biology, Plant Biotechnology, Plant Breeding	MBO2P03	-	-	6	6	3	2-6*	-	-	-	50	50	50
6	LAB 2	Plant Development, Reproduction, Taxonomy, Ecology	MBO2P04	-	-	6	6	3	2-6*	-	-	-	50	50	50
Total				12	-	20	32	22		240	60	120	150	150	150
Marks of Theory Component= 300 Marks of Practical Component= 300 TOTAL =600Min. Passing: 150+150=300															

Semester III

S N	Cour se Cate gory	Name of Course	Course Code	Teaching Scheme (hrs.)			Total (Hrs.)	Total Credi t	Examination Scheme						
				Th	TU	P			Theory			Practical			
									Exam Hrs.	SEE	CIE	Min	SEE	CIE	Min
1	DSC	Development and Reproduction	MBO3T08	4	-	-	4	4	3	80	20	40	-	-	-
2	DSC	Angiosperms-I	MBO3T09	4	-	-	4	4	3	80	20	40	-	-	-
3	DSC	Plant Ecology and Conservation Biology	MBO3T10	4	-	-	4	4	3	80	20	40	-	-	-
4	DSE	Elective 3 (Choose any one) 1. Molecular Biology and Plant Biotechnology-I 2. Mycology and Plant Pathology-I 3. Plant Physiology-I 4. Reproductive Biology of Angiosperms 5. Palaeobotany-I 6. Palynology-I 7. Ethnobotany-I 8. Advanced Phycology and Hydrobiology-I	MBO3T11	4	-	-	4	4	3	80	20	40	-	-	-
5	LAB	On electives	MBO3P05	-	-	4	4	2	-	-	-	-	50	50	50
6	RP	Research Project/ Dissertation (Core)	MRP3P01	-	-	8	8	4	-	-	-	-	50	50	50
Total				16	-	12	28	22		320	80	160	100	100	100

Marks of Theory Component= 400 Marks of Practical Component= 200 TOTAL =600 Min. Passing: 200+100=300

Semester IV

S N	Cour se Cate gory	Name of Course	Course Code	Teaching Scheme (hrs.)			Tot al (Hr s)	Total Credi t	Examination Scheme						
				Th	TU	P			Theory			Practical			
									Exam Hrs.	SEE	CIE	Min	SEE	CIE	Min
1	DSC	Angiosperms II	MBO4T12	4	-	-	4	4	3	80	20	40	-	-	-
2	DSC	Molecular Biology	MBO4T13	4	-	-	4	4	3	80	20	40	-	-	-
3	DSC	Plant Biotechnology and Plant Breeding	MBO4T14	4	-	-	4	4	3	80	20	40	-	-	-
4	DSE	Elective 4 (Choose any one) 1. Molecular Biology and Plant Biotechnology-II 2. Mycology and Plant Pathology-II 3. Plant Physiology-II 4. Reproductive Biology of Angiosperms-II 5. Palaeobotany-II 6. Palynology-II 7. Ethnobotany-II 8. Advanced Phycology and Hydrobiology-II	MBO4T15	4	-	-	4	4	3	80	20	40	-	-	-
5	RP	Research Project / Dissertation (Core)	MRP4P02	-	-	12	12	6	-	-	-	-	100	100	100
Total				16	-	12	28	22		320	80	160	100	100	100

Marks of Theory Component= 400 Marks of Project Component= 200 TOTAL =600Min. Passing: 200+100=300

Basket for ELECTIVE (DSE) Category Courses (Botany)

Semester	Course Category	Name of Course	Course Code
I	Elective 1	A. Palaeobotany and Gymnosperms	MBO1T03
		B. Equivalent online course	
II	Elective 2	A. Cell Biology	MBO2T07
		B. Equivalent online course	
III	Elective 3	A. Molecular Biology and Plant Biotechnology I	MBO3T11
		B. Mycology and Plant Pathology I	
		C. Plant Physiology I	
		D. Reproductive Biology of Angiosperms I	
		E. Palynology I	
		F. Palaeobotany-I	
		G. Ethnobotany-I	
		H. Advanced Phycology and Hydrobiology I	
IV	Elective 4	A. Molecular Biology and Plant Biotechnology II	MBO4T15
		B. Mycology and Plant Pathology II	
		C. Plant Physiology II	
		D. Reproductive Biology of Angiosperms II	
		E. Palynology II	
		F. Palaeobotany-II	
		G. Ethnobotany-II	
		H. Advanced Phycology and Hydrobiology II	