MANGALORE UNIVERSITY
M.Sc., BOTANY (CBCS)

Course pattern and scheme of Examination

Paper Code	Title of the Paper	Instruction hrs/ week	Duration of Exam (hrs)	IA	Exam	Total	Credits
I Semester							
Hard Core							
BOH401	Plant Morphology and Taxonomy- I	4	3	30	70	100	4
BOH402	Plant Biochemistry	4	3	30	70	100	4
BOH403	Microbiology	4	3	30	70	100	4
BOP404	Plant Morphology and Taxonomy - Lab- I	4	3	15	35	50	2
BOP405	Plant Biochemistry - Lab	4	3	15	35	50	2
BOP406	Microbiology - Lab	4	3	15	35	50	2
Soft Core							
	One paper to be selected by the student	3	3	30	70	100	3
BOS407	Plant Pathology						
BOS408	Plant Microbe interaction						
BOS409	Anatomy & Histochemistry						
	*to be selected by the student	3	3	15	35	50	2
BOP410	Plant Pathology - Lab						
BOP411	Plant Microbe interaction - Lab						
BOP412	Anatomy & Histochemistry - Lab						
	Total					600	23

		II Semester					
Paper Code	Title of the Paper	Instruction hrs/ week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
Hard Core							
BOH451	Plant Morphology and Taxonomy- II	4	3	30	70	100	4
BOH452	Plant Physiology	4	3	30	70	100	4
BOP453	Plant Morphology and Taxonomy - Lab- II	4	3	15	35	50	2
BOP454	Plant Physiology - Lab	4	3	15	35	50	2
Soft Core							
	Two papers to be selected by the student	3x2	3 each	30x2	70x2	100x2 =200	3x2=6
BOS455	Molecular plant pathology						
BOS456	Applied Microbiology						
BOS457	Ethnobotany & IPR						
BOS458	Reproductive biology of Angiosperms and Plant Morphogensis						
	***to be selected by the student**	3x2	3x2	15x2	35x2	50x2= 100	2x2=4
BOP459	Molecular plant pathology - Lab						
BOP460	Applied Microbiology - Lab						
BOP461	Ethnobotany & IPR - Lab						
BOP462	Reproductive biology of Angiosperms and Plant Morphogensis - Lab						
Open Elective							
BOE463	Medicinal Plants	4	-	-	-	100	3
	Total					700	25

		III Semester					
Paper Code	Title of the Paper	Instruction hrs/ week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
Hard Core							
BOH501	Plant Ecology & Environment	4	3	30	70	100	4
BOH502	Cytogenetics and Molecular Biology	4	3	30	70	100	4
BOP503	Plant Ecology & Environment - Lab	4	3	15	35	50	2
BOP504	Cytogenetics and Molecular Biology - Lab	4	3	15	35	50	2
Soft Core							
	Two papers to be selected by the student	3x2	3 each	30x2	70x2	100x2 =200	3x2=6
BOS505	Plant Tissue Culture						
BOS506	Seed Technology						
BOS507	Economic Botany						
BOS508	Phytochemical methods						
	*to be selected by the student	3x2	3x2	15x2	35x2	50x2= 100	2x2=4
BOP509	Plant Tissue Culture Lab						
BOP510	Seed Technology - Lab						
BOP511	Economic Botany - Lab						
BOP512	Phytochemical methods - Lab						
Open Elective							
BOE513	Plant Propagation	4	-	-	-	100	3
	Total					700	25

IV semester							
Paper Code	Title of the Paper	Instruction hrs/ week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
Hard Core							
BOH551	Plant Breeding	4	3	30	70	100	4
BOH552	Plant Biotechnology	4	3	30	70	100	4
BOP553	***Project work	4	-	30	70	100	4
BOP554	Plant Breeding - Lab	4	3	15	35	50	2
BOP555	Plant Biotechnology - Lab	4	3	15	35	50	2
Soft Core							
	One paper to be selected by the student	3	3	30	70	100	3
BOS556	Post Harvest Technology						
BOS557	Biodiversity & conservation						
	Total					500	19

*Practicals of the respective subject chosen by the student.

Soft core papers will be offered depending on the expertise available in the Department.

IA for theory will be based on two tests and one seminar.

IA for practicals will be based on the class records and one practical test.
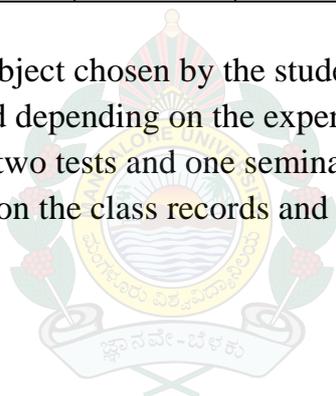
MANGALORE UNIVERSITY

DEPARTMENT OF BOTANY
<u>Scheme for M.Sc., CBCS Course</u>

Semester	No. of papers	Hard core				Soft core				Open elective		Total credits
		Theory		Practicals		Theory		Practicals		Theory		
		Hrs	Credits	Hrs	Credits	Hrs	Credits	Hrs	Credits	Hrs	Credits	
I	4	4	4x3=12	4	2x3=6	3	3x1=3	4	2x1=2	-	-	23
II	5	4	4x2=8	4	2x2=4	3	3x2=6	4	2x2=4	3	3	25
III	5	4	4x2=8	4	2x2=4	3	3x2=6	4	2x2=4	3	3	25
IV	4	4	4x2=8 4x1=4*	4	2x2=4		3x1=3		-	-	-	19

* **Project work**

HC credits	- 58	63%
SC credits	- 28	30%
Open elective	- 06	7%

	92	
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