

MASTER OF SCIENCE IN BOTANY

Programme Code: BOM

Duration: 2 Years

Teaching & Scheme of Examination

FROM SESSION: 2019-2020 Onwards



Faculty of Science

**CHHATRAPATI SHIVAJI MAHARAJ
UNIVERSITY PANVEL, NAVI MUMBAI**

Semester-I

Course Code	Course Name	L	T	P	IA	UE	Total Marks	Credits
BOMC101	Algae	4	0	0	30	70	100	4
BOMC102	Fungi	4	0	0	30	70	100	4
BOMC103	Cytogenetics & plant breeding	4	0	0	30	70	100	4
BOMC104	Ecology	4	0	0	30	70	100	4
BOMC191	Algae lab	0	0	4	15	35	50	2
BOMC192	Fungi lab	0	0	4	15	35	50	2
BOMC193	Cytogenetics & plant breeding lab	0	0	4	15	35	50	2
BOMC194	Ecology lab	0	0	4	15	35	50	2
	Total	16	0	16	180	420	600	24

Semester-II

Course Code	Course Name	L	T	P	IA	UE	Total Marks	Credits
BOMC201	Plant pathology & Microbiology	4	0	0	30	70	100	4
BOMC202	Bryophytes	4	0	0	30	70	100	4
BOMC203	Pteridophytes & Gymnosperms	4	0	0	30	70	100	4
BOMC204	Molecular genetics	4	0	0	30	70	100	4
BOMC291	Plant pathology & Microbiology lab	0	0	4	15	35	50	2
BOMC292	Bryophytes lab	0	0	4	15	35	50	2
BOMC293	Pteridophytes & Gymnosperms lab	0	0	4	15	35	50	2
BOMC294	Molecular genetics lab	0	0	4	15	35	50	2
	Total	16	0	16	180	420	600	24

Semester-III

Course Code	Course Name	L	T	P	IA	UE	Marks	Credits
BOMC301	Plant physiology & biochemistry	4	-	-	30	70	100	4
BOMC302	Taxonomy & economic botany	4	-	-	30	70	100	4
BOME303	Elective - I	4	-	-	30	70	100	4
BOMS304	Special Paper – I	4	-	-	30	70	100	4
BOMC391	Plant physiology & biochemistrylab			2	15	35	50	2
BOMC392	Taxonomy & economic botany lab			2	15	35	50	2
BOME393	Elective - I lab			2	15	35	50	2
BOMS394	Special Paper – I lab			2	15	35	50	2
	Total	16	0	08	180	320	600	24

Semester - IV

Course Code	Course Name	L	T	P	IA	UE	Marks	Credits
BOMC401	BiologyofReproductionandAnatomy	4	-	-	30	70	100	4
BOME402	Elective – II	4	-	-	30	70	100	4
BOMS403	Special Paper – II	4	-	-	30	70	100	4
BOMC484	Project	8	-	-	40	140	200	8
BOMC491	BiologyofReproductionandAnatomylab			2	15	35	50	2
BOMS493	Special Paper – II lab			2	15	35	50	2
	Total	20	0	4	180	320	600	24

Total Marks: 2400

Total Credit: 96

List of Elective and Special Papers:

Semester	Course Code (T+P)	Course Name	(L-T-P)	Credits
Elective Papers				
III	BOME301+BOME39	Environmental Biotechnology	4-0-4	6
III	BOME302+BOME39 2	Food Biotechnology	4-0-4	6
III	BOME303+BOME39	Nanobiotechnology	4-0-4	6
III	BOME304+BOME39	Advanced Phycology	4-0-4	6
IV	BOME401+BOME49	Applied Mycology	4-0-4	6
IV	BOME402+BOME49	Plant tissue culture	4-0-4	6
IV	BOME403+BOME49	Plant Biotechnology	4-0-4	6
IV	BOME404+BOME49	Advanced plant physiology	4-0-4	6
Special Papers				
III	BOMS301+BOMS39 1	IPR & Biosafety	4-0-4	6
III	BOMS302+BOMS39	Plant growth and development	4-0-4	6
III	BOMS303+BOMS39	Research and communication	4-0-4	6
III	BOMS304+BOMS39	Pharmacogenomics	4-0-4	6
IV	BOMS401+BOMS49	Biotech entrepreneurship	4-0-4	6
IV	BOMS402+BOMS49 2	Agriculture Biotechnology	4-0-4	6
IV	BOMS403+BOMS49	Plant biochemistry	4-0-4	6
IV	BOMS404+BOMS49	Biochemical techniques	4-0-4	6

NOTE: Students have to choose two elective subjects for Semesters III, one from each group Elective I and Special Paper-I. In Semester-IV, the students have to choose two elective subjects, one from each group Elective-II and Special Paper-II. The Special Paper course must be chosen in continuation to the course chosen in the previous semester. This choice-based system shall facilitate in development of specialized expertise in thrust areas of Botany. Departmental committee will approve the topic of the project selected by students.