

Progressive Education Society's
Modern College of Arts, Science and Commerce,
Shivajinagar, Pune 5

Framework of Syllabus

For M. Sc. Botany

(2019-20 Course)

(with effect from 2019-20)

CIA: Continuous Internal Evaluation

Semester I (Part 1)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-1	19ScBotP101	Cryptogamic Botany I Algae (1.25 Credits) Fungi (1.25 Credits) Lichens (0.5 Credits)	4	4	50	50	100
CCT-2	19ScBotP102	Cell Biology and Evolution Cell Biology (3 Credits) Evolution (1 Credit)	4	4			
DSET-1	19ScBotP103	Plant Metabolism	4	4			
DSET-1	19ScBotP104	Botanical Techniques	4	4			
CCP-1	19ScBotP105	Practical based on 19ScBotP101	4	4			
CCP-2	19ScBotP106	Practical based on 19ScBotP102	4	4			
Total					20		

Semester II (Part 1)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-1	19ScBotP201	Cryptogamic Botany II Pteridophytes Gymnosperms Paleobotany	4	4	50	50	100
CCT-2	19ScBotP202	Biochemistry	4	4			
DSET-1	19ScBotP203	Genetics and Plant Breeding Genetics Plant Breeding	4	4			
DSET-1	19ScBotP204	Molecular Biology	4	4			
CCP-1	19ScBotP205	Practical based on 19ScBotP201	4	4			
CCP-2	19ScBotP206	Practical based on 19ScBotP202	4	4			
Total					20		

Field visit for 19ScBotP201 and submission of 5 forms each of Pteridophytes and Gymnosperms.

Semester III (Part 2)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-1	19ScBotP301	Spermatophytic Botany Systematics of Angiosperm	4	4	50	50	100
CCT-2	19ScBotP302	Plant Ecology and Phytogeography Plant Ecology Phytogeography	4	4			
DSET-1	19ScBotP303	Developmental Botany	4	4			
DSET-1	19ScBotP304	Genetic Engineering	4	4			
CCP-1	19ScBotP305	Practicals Based on 19ScBotP301 and 19ScBotP304	4	4			
CCP-2	19ScBotP306	Practicals based on 19ScBotP302 and 19ScBotP303	4	4			
		Total		20			

Semester IV (Part 2)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-1	19ScBotP401	Computational Botany (60 L) Biomathematics (1 Credit) Biostatistics (1 Credit) General Computer (1 Credit)	4	4	50	50	100
CCT-2	19ScBotP402	Plant Pathology and Plant Protection (60 L)	4	4			
DSET-1	19ScBotP403	Plant Biotechnology (60 L)	4	4			
DSET-1	19ScBotP404	Industrial Botany (60 L)	4	4			
CCP-1	19ScBotP405	Practicals based on 19ScBotP401,19ScBotP402 and 19ScBotP403		4			
CCP-2	19ScBotP406	Practical Based on --Review of Literature --Summer internship --Project Report	4	4			
		Total		20			