

COURSE STRUCTURE OF M. Sc. SYLLABUS
IMPLEMENTED FROM July 2011 (semester I & II)
And July 2012 (semester III &IV)

Semester I **(26 cr.)**

Course No.	Title of course	Credits allotted
BO 1.1	Plant Systematics I (Algae, fungi & Bryophytes)	4
BO 1.2	Biochemistry and Plant Physiology	4
BO 1.3	Genetics & Plant breeding	4
BO 1.4	Tools and Techniques in Botany	4
BO 1.5	Practicals based on BO 1.1 and 1.4	5
BO 1.6	Practicals based on BO 1.2 & BO 1.3	5

Semester II **(26 cr.)**

BO 2.1	Plant Systematics II (Pteridophytes and Gymnosperms)	4
BO 2.2	Cell Biology	4
BO 2.3	Molecular Biology	4
BO 2.4	Plant Ecology	4
BO 2.5	Practicals based on BO 2.1 and 2.4	5
BO 2.6	Practicals based on BO 2.2 & 2.3	5

Semester III **(26 cr.)**

BO 3.1	Plant Systematics III (Angiosperms)	4
BO 3.2	Developmental Botany	4
BO 3.3	Plant Genetic engineering	4
BO 3.4	Quantitative methods and Bioinformatics	4
BO 3.5	Practicals on BO 3.1 and BO3.2	5
BO 3.6	Practicals on BO 3.3 and BO3.4	5

Semester IV	(22 cr.)
BO 4.1 Optional paper I	4
BO 4.2 Optional paper II	4
BO 4.3 Practicals on optional paper II	4
BO4.4 Project on optional paper II	8
BO4.5 Review and Seminar on optional paper II	2

1. Optional paper I will consist of the following options: (any one)

4.1a Plant Pathology	4
4.1b Plant diversity assessment and conservation	4
4.1c Clonal propagation of plants	4
4.1d Plant Organism interactions	4

2. Optional paper II will consist of the following options: (any one)

4.2a Advanced plant physiology	4
4.2b Advanced angiosperm systematics and evolution	4
4.2c Algology - Diversity and applications of algae	4
4.2d Mycology - Diversity and applications of fungi	4
4.2e Pharmacognosy - Medicinal plant biology	4
4.2f Plant biotechnology	4
4.2g Advanced Genetics and Plant breeding	4
4.2h Advanced Environmental Botany	4