

M.Sc. Plant Breeding and Molecular Genetics
Semester I

Course code*	Course Title	Type	Teaching Scheme			Evaluation Scheme						Minimum Passing					Credit	
						Internal			External		Total	Internal			External			Total
						L	T	P	CA	MSE		TW	ESE	PR	CA	MSE		
	(Mandatory)																	
MPB-511	Principles of Genetics and Plant Breeding	Core	3			20	20	20	90		150				36		60	3
MPB- 512	Principles of Cytogenetics	Core	3			20	20	20	90		150				36		60	3
MPB- 513	Molecular Cell Biology	Minor	2			10	20	10	60		100				24		40	2
MPB- 514	Plant Physiology and Development	Minor	2			10	20	10	60		100				24		40	2
PGL- 511	Breeding Farming (Practical)	Core			6	20	25	15		90	150					36	60	3
PGL- 512	Breeding Lab (Practical)	Core			6	20	25	15		90	150					36	60	3
MNP-513	Mini Project	MNP			6	20	25	15		90	150					36	60	3
OEC-514	Open Elective Course	OEC			2	10	15	15		60	100					24	40	2
	Total		10	2	20	130	170	120	300	330	1050							21

Semester II

Course code*	Course Title	Type	Teaching Scheme			Evaluation Scheme						Minimum Passing						Credit		
						Internal			External			Total	Internal			External			Total	
						CA	MSE	TW	ESE	PR	CA		MSE	TW	ESE	PR				
(Mandatory)			L	T	P	CA	MSE	TW	ESE	PR	CA	MSE	TW	ESE	PR	Total				
MPB- 521	Principles of Quantitative Genetics	Core	3			20	20	20	90		150				36		60	3		
MPB- 522	Mutagenesis & Mutation Breeding	Minor	2			10	20	10	60		100				24		40	2		
MPB- 523	Breeding for Biotic & Abiotic Stress Resistance	Minor	3			20	20	20	90		150				36		60	3		
MPB- 524	Maintenance Breeding, Concept of Variety Release & Seed Production	Core	2			10	20	10	60		100				24		40	2		
PGL- 521	Basics Concepts in Laboratory Techniques (Practical)	Core			6	20	25	15		90	150					36	60	3		
PGL-522	Plant Breeding Molecular Lab (Practical)	Core			6	20	25	15		90	150					36	60	3		
MNP-523	Micro Project	MIP			6	20	25	15		90	150					36	60	3		
ACT- 524	Academic Tutorials	AT		2		10	20	10	60		100						40	2		
SEM-525	Seminar	RBS	2			10	10		30		50						20	1		
OEC- 526	Open Elective Course	OEC			4	10	15	15		60	100					24	40	2		
	Total		12	2	22	150	200	130	390	330	1200							24		

Semester III

Course code*	Course Title	Type	Teaching Scheme			Evaluation Scheme						Minimum Passing					Credit	
						Internal			External		Total	Internal			External			Total
						CA	MSE	TW	ESE	PR		CA	MSE	TW	ESE	PR		
	(Mandatory)		L	T	P													
MPB- 531	Heterosis Breeding	Core	3			20	20	20	90		150				36		60	3
MPB- 532	Advanced Biometrical and Quantitative Genetics	Minor	4			20	40	20	120	-	200				48		80	4
PGL- 531	Crop Production Technology (Practical)	Core			6	20	25	15	-	90	150					36	60	3
MNP- 532	Major Project	MRP			14	45	45	50	140	210	350					56	140	7
ACT- 533	Academic Tutorials	AT		2		10	20	10	60		100						40	2
SEM- 534	Seminar	RBS	2			10	10		30		50						20	1
BCL- 535	Blended Course	BC			4				60	40	100						40	2
	Total		9	2	24	125	160	115	500	340	1100							22

Semester IV

Course code*	Course Title	Type	Teaching Scheme			Evaluation Scheme						Minimum Passing					Credit	
						Internal			External		Total	Internal			External			Total
						CA	MSE	TW	ESE	PR		CA	MSE	TW	ESE	PR		
	(Mandatory)		L	T	P													
MPB- 541	Ethics/ Biosafety/ IPR	Minor	3			20	20	20	90		150				36			3
BIL- 542	Big Idea	MRP			20				360	240	600					96	240	12
BCL- 543	Blended Course	BC			4				60	40	100						40	2
	Total		3	0	24	20	20	20	510	280	850							17

L- Lecture, T-Tutorial, P-Practical, CA- Continuous Assessment, MSE- Mid Semester Examination, ESE- End Semester Examination, PR-Practical, TW-Term Work