



Integral University, Lucknow
Integral Institute of Agricultural Science and Technology
Evaluation Scheme of Post graduate program
w.e.f. Session 2025-26

M. Sc. (Ag.) Genetics and Plant Breeding

Semester – I

Course Code	Course Title	Type of Course	Periods/ Per week			Evaluation Scheme Theory Mid Sem			Evaluation Scheme Practical Mid Sem			Practical End Sem Exam	Sub Total (Theory + Practical Mid Sem Exam)	End Sem Theory Exam	Subject Total	Credit	Total Credit Points	Attributes							United Nations sustainable development goals (SDGS)	
			L	T	P	CT	TA	Total	CT	TA	Total							Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics		
GPB 501	Principles of Genetics	Major	2	0	2	20	10	30	-	-	-	20	50	50	100	2:0:1	3			√					√	
GPB 502	Principles of Plant Breeding		2	0	2	20	10	30	-	-	-	20	50	50	100	2:0:1	3			√			√		√	
GPB 509	Hybrid Breeding	Optional	2	0	2	20	10	30	-	-	-	20	50	50	100	2:0:1	3	√	√	√				√	√	
Total																	*									
MBB 517	Stress Biology and Genomics	Minor	2	0	0	20	10	30	-	-	-	-	30	70	100	2:0:0	2			√			√			
STAT 511	Experimental Designs	Supporting	2	0	2	20	10	30	-	-	-	20	50	50	100	2:0:1	3	√		√			√	√	√	
BIOCHEM 505	Techniques in Biochemistry		2	0	4	20	10	30	-	-	-	20	50	50	100	2:0:2	4	√	√	√						
MCA 512	Information Technology in Agriculture		1	0	2	20	10	30	-	-	-	20	50	50	100	1:0:1	2	√	√	√						
Total																	**									
PGS 501	Library and Information Services	Common	0	0	2	-	-	-	-	25	25	75	100	0	100	0:0:1	1	√		√					√	
PGS 503 (eCourse)	Intellectual Property and Its Management in Agriculture		1	0	0	20	10	30	-	-	-	-	30	70	100	1:0:0	1	√	√	√					√	
PGS 504	Basic Concepts in Laboratory Techniques		0	0	2	0	0	0	-	25	25	75	25	-	100	0:0:1	1	√	√	√						
PGS 510	Biochemical and Molecular Biology Techniques		0	0	4	0	0	0	-	25	25	75	25	-	100	0:0:2	2 ^{††}	√		√						
Grand Total																	***									

*Grand Total (***) = *+**, credit should not exceed more than 22 credit in one semester; ^{††} = Non-Gradual Course*



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M. Sc. (Ag.) Genetics and Plant Breeding

Semester – II

Course Code	Course Title	Type of Course	Periods/ Per week			Evaluation Scheme Theory Mid Sem			Evaluation Scheme Practical Mid Sem			Practical End Sem Exam	Sub Total (Theory + Practical Mid Sem Exam)	End Sem Theory Exam	Subject Total	Credit	Total Credit Points	Attributes							United Nations sustainable development goals (SDGS)		
			L	T	P	CT	TA	Total	CT	TA	Total							Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics			
GPB 503	Fundamentals of Quantitative Genetics	Major	2	0	2	20	10	30	-	-	-	20	50	50	100	2:0:1	3	√	√	√		√		√			
GPB 506	Molecular Breeding and Bioinformatics		2	0	2	20	10	30	-	-	-	20	50	50	100	2:0:1	3	√	√	√		√		√			
Total																											
GPB 510	Seed Production and Certification		1	0	2	20	10	30	-	-	-	20	50	50	100	1:0:1	2	√	√	√			√	√			
GPB 511	Crop Breeding-I (Kharif Crops)	Optional	2	0	2	20	10	30	-	-	-	20	50	50	100	2:0:1	3	√	√	√			√	√			
Total																	*										
*Major Course (Core course + Optional course) should not exceed more than 9 credit																											
MBB 504	Techniques in Molecular Biology I	Minor	0	0	6	0	0	-	-	-	-	25	75	0	100	0:0:3	3 [#]	√	√	√		√		√			
MBB 509	Plant Tissue culture		2	0	2	20	10	30	-	-	-	20	50	50	100	2:0:1	3 [#]	√	√	√		√		√			
		Supporting																									
Total																	**										
PGS502	Technical Writing and Communications Skills	Common	0	0	2	0	0	-	-	-	-	25	75	0	100	0:0:1	1	√		√				√	4		
PGS505 (eCourse)	Agricultural Research, Research Ethics and Rural Development Programmes		1	0	0	20	10	30	-	-	-	0	0	70	100	1:0:0	1	√		√			√	√	4		
PGS508	AI Foundation in Agricultural Sciences		2	0	1	20	10	30	-	-	-	20	50	50	100	2:0:1	3 ^{††}	√		√							
PPP-2	Professional Skills, Personality Development, Public Speaking Program		2	0	0	-	-	-	-	-	-	-	-	-	-	S/US	2:0:0	2 ^{††}	√	√	√				√		
GPB 599	Masters Research		-	-	-	-	-	-	-	-	-	-	-	-	S/US	0:0:4	4 ^{\$}	√		√			√	√	4		
Grand Total																	***										

Grand Total (***) = *+**, credit should not exceed more than 22 credit in one semester; [#]Student can opt any one subject from Minor; ^{††}Non-Gradial Course; ^{\$}Master's Research credit to be counted in Final Semester examinations; S/US=Satisfactory/Unsatisfactory;