

Faculty of Agriculture Science & Technology
Department of Agriculture Science
Study and Evaluation Scheme
Of
M.Sc. (Ag.)
Genetics and Plant Breeding
(Applicable w.e.f Academic Session 2018- 2019)



AKS UNIVERSITY, SATNA (M.P.)

**** The University Authority reserve all the right to make any addition / deletion or change / modification to this syllabus as deemed necessary**

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

(Two Year Master Degree Programme)

Requirement of Credit Hours for Award of the Degree

S.No	Nature of Courses	Credit Hours
1	Major courses	21
2	Minor Courses	9
3	Supporting Courses	6
4	Master Seminar	1
5	Master Research	20
	Total	57

Major Subject: The subject (Department / Discipline) in which a student takes admission.

Minor Subject: The Subject closely related to a students major subject.

Supporting Subject: The Subject not related to the major subject. It could be any subject considered relevant for students research work or necessary for building his overall competence.

Non- Credit compulsory Courses : (PGS 1 – PGS 6) are of general nature and are compulsory.



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M.Sc. (Ag.) Genetics And Plant Breeding (GPB)

Semester Wise distribution of courses

First Semester:

A. Major Courses			
S.No		Title of Courses	Credit hours
1	GPB 501*	PRINCIPLES OF GENETICS	2+1
2	GPB 502*	PRINCIPLES OF CYTOGENETICS	2+1
3	GPB 503*	PRINCIPLES OF PLANT BREEDING	2+1
		Total	9 (6+3)
B. Minor Courses			
1	GPB 515	MAINTENANCE BREEDING AND CONCEPTS OF VARIETY RELEASE AND SEED PRODUCTION	2+1
		Total	3(2+1)
C. Supporting Courses			
1	STAT 511	Statistical Methods For Applied Sciences	2+1
		Total	3(2+1)
Total -			15
D. Non Credit Courses			
1	PGS 502	TECHNICAL WRITING AND COMMUNICATIONS SKILLS	0+1
2	PGS 503	INTELLECTUAL PROPERTY AND ITS MANAGEMENT IN AGRICULTURE	1+0
		Total	2(1+1)



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Second Semester:

A. Major Courses			
S.No		Title of Courses	Credit hours
1	GPB 504*	PRINCIPLES OF QUANTITATIVE GENETICS	2+1
2	GPB 508*	CELL BIOLOGY AND MOLECULAR GENETICS	2+1
		Total	6(4+2)
B. Minor Courses			
1	GBP 505	MUTAGENESIS AND MUTATION BREEDING	2+1
		Total	3(2+1)
C. Supporting Courses			
1	STAT 512	EXPERIMENTAL DESIGN	2+1
		Total	3(2+1)
Total			12
D. Non Credit Courses			
1	PGS 504	BASIC CONCEPTS IN LABORATORY TECHNIQUES	0+1
2	PGS 501	LIBRARY AND INFORMATION SERVICES	0+1



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Third Semester :

A. Major Courses			
S.No		Title of Courses	Credit hours
1	GPB 509	BIOTECHNOLOGY FOR CROP IMPROVEMENT	2+1
2	GPB 510	BREEDING FOR BIOTIC AND ABIOTIC STRESS RESISTANCE	2+1
3	GPB 591	MASTER SEMINAR	1(0+1)
4	GPB 599	MASTER RESEARCH	10(0+10)
		Total	17
B. Minor Courses			
1	GPB 516	GERMPLASM COLLECTION, EXCHANGE AND QUARANTINE	2+1
		Total	3 (2+1)
Total			20
D. Non Credit Courses			
1	PGS 505	AGRICULTURAL RESEARCH, RESEARCH ETHICS AND RURAL DEVELOPMENT PROGRAMMES	1+0
2	PGS 506	DISASTER MANAGEMENT	1+0

Fourth Semester :

A. Major Courses			
S.No		Title of Courses	Credit hours
1	GPB 599	MASTER RESEARCH	10(0+10)
		Total	10