



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

PROGRAMME SCHEME

School of Agriculture,

ITM University, Gwalior, Madhya Pradesh 474001

Program Scheme (Semester-wise Distribution of Credit Hours)

I Semester								
S. No.	Course Title	Subject Code	Credits	Course Distribution			Total Work Load Hrs./ Week	Nature
				L	P	S/R		
1	Principles of Genetics	GPB-501	3(2+1)	2	1	0	4	Major*
2	Principles of Plant Breeding	GPB-502	3(2+1)	2	1	0	4	Major*
3	Principles of Cytogenetics	GPB-505	3(2+1)	2	1	0	4	Major*
4	Seed Production Principles and Techniques in Field Crops	SST-503	3(2+1)	2	1	0	4	Minor
5	Statistical Methods for Applied Sciences	STAT-502	4(3+1)	2	1	0	4	Supporting
6	Library and Information Services	PGS-501	1(0+1)	0	1	0	2	Common compulsory
7	Technical Writing and Communication Skill	PGS-502	1(0+1)	0	1	0	2	Common compulsory
II Semester								
1	Fundamentals of Quantitative Genetics	GPB-503	3(2+1)	2	1	0	4	Major*
2	Varietal Development and Maintenance Breeding	GPB-504	2(1+1)	1	1	0	3	Major (Optional)
3	Crop Breeding-II(Rabi Crops)	GPB-512	3(2+1)	2	1	0	4	Major (Optional)
5	Seed Developmental Biology	SST-501	2(1+1)	1	1	0	3	Minor
6	Experimental Designs	STAT-512	3(2+1)	2	1	0	4	Supporting
7	Intellectual Property and Its Management in Agriculture	PGS-503	1(1+0)	1	0	0	1	Common compulsory
8	Basic Concept in Laboratory Technique	PGS-504	1(0+1)	0	1	0	2	Common compulsory
9	Master Seminar	GPB-591	1(0+1)	0	0	1(S)	1	Seminar
10	Master Research	GPB-599	0(0+7)	0	0	07(R)	07	Research
III Semester								
1	Molecular Breeding and Bioinformatics	GPB-506	3(2+1)	2	1	0	4	Major*
2	Breeding for Stress Resistance and Climate Change	GPB-516	3(2+1)	2	1	0	4	Major (Optional)
3	Post Harvest Handling and Storage of Seeds	SST-508	3(2+1)	2	1	0	4	Minor
4	Agriculture Research, Research Ethics And Rural Development Programme	PGS-505	1(0+1)	1	0	0	1	Common compulsory
5	Master Research	GPB-599	08(0+08)	0	0	08(R)	08	Research
IV Semester								
1	Master Research	GPB-599	15(0+15)	0	0	15(R)	15	Research

L=Lecture, P=Practical, S=Seminar, R=Research (Thesis),*Compulsory major courses