

GURU KASHI UNIVERSITY



Master of Science in Agriculture (Genetics & Plant Breeding) (GPB)

Session: 2026-27

Faculty of Agriculture

Program Structure

SEMESTER- I									
Course Code	Course Title	Type of Course	L	T	P	No. of Credits	Int.	Ext.	Total Marks
GPB501	Principles of Genetics	Major	2	0	0	2	30	70	100
GPB502	Principles of Genetics Lab	Major	0	0	2	1	30	70	100
GPB503	Principles of Plant Breeding	Major	2	0	0	2	30	70	100
GPB504	Principles of Plant Breeding Lab	Major	0	0	2	1	30	70	100
GPB515	Principles of Biotechnology	Minor	3	0	0	3	30	70	100
STAT501	Agriculture statistics	Supporting	3	0	0	3	30	70	100
STAT502	Agriculture statistics Lab	Supporting	0	0	2	1	30	70	100
PGC501	Library and Information Services Lab	Common	0	0	2	1	30	70	100
PGC502	Agricultural Research, Research Ethics and Rural Development Programmes	Common	1	0	0	1	30	70	100
GPB600	Master Research	Research	0	0	0	5	S/U S	S/ US	S/ US
Total						15+5			

SEMESTER-II									
Course Code	Course Title	Type of Course	L	T	P	No. of Credits	Int.	Ext.	Total Marks
GPB505	Nano biotechnology	Major	2	0	0	2	30	70	100
GPB506	Fundamentals of Quantitative Genetics	Major	2	1	1	2	30	70	100
GPB507	Fundamentals of Quantitative Genetics Lab	Major	0	0	2	1	30	70	100
GPB516	Fundamental of Molecular Biology	Minor	3	0	0	3	30	70	100
GPB599	Seminar	Skill Dev.	0	0	2	1	30	70	100
CA501	Fundamentals of Computer Applications Lab	Supporting	0	0	4	2	30	70	100
PGC503	Basic Concepts in Laboratory Techniques Lab	Common	0	0	2	1	30	70	100
GPB600	Master Research	Research	0	0	0	7	S/US	S/US	S/US
Total						12+7			

SEMESTER-III									
Course Code	Course Title	Type of Course	L	T	P	No. of Credits	Int.	Ext.	Total Marks
GPB508	Molecular Breeding and Bioinformatics	Major	2	0	0	2	30	70	100
GPB509	Molecular Breeding and Bioinformatics Lab	Major	0	0	2	1	30	70	100
GPB510	Breeding for Stress Resistance and Climate Change	Major	2	0	0	2	30	70	100
GPB511	Breeding for Stress Resistance and Climate Change Lab	Major	0	0	2	1	30	70	100
PGC504	Technical writing and communication skills Lab	Common	0	0	2	1	30	70	100
PGC517	Plant Genetic Engineering	Minor	2	0	0	2	30	70	100
GPB600	Master Research	Research	0	0	0	9	S/US	S/US	S/US
Total						9+9			

SEMESTER-IV									
Course Code	Course Title	Type of Course	L	T	P	No. of Credits	Int.	Ext.	Total Marks
GPB512	Principles of Cytogenetics	Major	2	0	0	2	30	70	100
GPB513	Principles of Cytogenetics Lab	Major	0	0	2	1	30	70	100
PGC505	Intellectual Property and its Management in Agriculture	Common	1	0	0	1	30	70	100
GPB600	Master Research	Research	0	0	0	9	S/U S	S/ US	S/ US
Total						4+9			
Grand Total						40+30=70			

CBCS- Choice based credit system