

Scheme of Studies B.Sc. (HONS.) Agriculture Major Plant Breeding and Genetics

SEMESTER V (Students will select one elective course)

Course code	Title	Credit Hours	Course Type
PBG-501	PRINCIPLES OF GENETICS	3(2-1)	Major
PBG-503	PRINCIPLES AND METHODS OF PLANT BREEDING	3(2-1)	Major
PBG-505	CYTOGENETICS	3(2-1)	Major
PBG-507	PLANT ECOLOGY AND EVOLUTION	2(2-0)	Major
PBG-509	EXPERIMENTATION IN PLANT BREEDING	2(0-2)	Major
PBG-511	BIOINFORMATICS IN PLANT BREEDING	2(0-2)	Major
PBG-513	HYBRID SEED PRODUCTION TECHNOLOGY	3(2-1)	Major
	Subtotal	18	
PBG-515	INNOVATIONS IN PLANT BREEDING	2(1-1)	Elective Major
PBG-517	MUTATION BREEDING IN CROP PLANTS	2(1-1)	Elective Major
TGM-501	TUTORIAL GROUP MEETING FOR SOFT SKILLS	NCC	Compulsory
	Total major credit hours	20	

SEMESTER-VI (Students will select one elective course)

PBG-502	MOLECULAR PLANT BREEDING	3(2-1)	Major
PBG-504	BREEDING FIBRE CROPS	3(2-1)	Major
PBG-506	BREEDING MINOR CROPS	2(1-1)	Major
PBG-508	BREEDING OILSEED CROPS	3(2-1)	Major
PBG-510	BREEDING CLIMATE RESILIENT CROPS	2(1-1)	Major
PBG-512	MANAGEMENT OF GERMPLASM RESOURCES	2(2-0)	Major
PBG-514	BIOMETRY	2(0-2)	Major
	Subtotal credit hours	17	
PBG-516	PRINCIPLES OF FRUIT AND TREE BREEDING	3(2-1)	Elective
PBG-518	BIOLOGICAL DATA SCIENCE	3(1-2)	Elective
TGM-502	TUTORIAL GROUP MEETING FOR SOFT SKILLS	NCC	Compulsory
	Total major credit hours	20	

SEMESTER-VII (Students will select one elective course)

PBG-601	BREEDING SUGAR CROPS	2(1-1)	Major
PBG-603	BREEDING CEREAL AND PULSES	3(2-1)	Major
PBG-605	VARIETY REGISTRATION AND IPRS	2(1-1)	Major
PBG-607	BREEDING FODDER AND FORAGE CROPS	2(1-1)	Major
PBG-609	BREEDING VEGETABLE CROPS	3(2-1)	Major
PBG-611	PREPARATION OF RESEARCH PROJECT AND SCIENTIFIC WRITING	2(1-1)	Major
PBG-613	INTRODUCTION TO QUANTITATIVE GENETICS	2(0-2)	Major
PBG-615	PHENOMICS IN PLANT BREEDING	2(1-1)	Major
	Subtotal credit hours	18	
PBG-617	BIO-SAFETY MEASURES IN HANDLING GENETIC MATERIAL	2(1-1)	Elective
PBG-619	BREEDING MEDICINAL CROPS	2(1-1)	Elective
TGM-601	TUTORIAL GROUP MEETING FOR SOFT SKILLS	NCC	Compulsory
	Total major credit hours	20	

SEMESTER-VIII

PBG-602	INTERNSHIP	3(0-3)	Major
PBG-604	CAPSTONE	3(0-3)	Major
	Total major credit hours	6	