

M.Sc. in Plant Biology Conservation and Breeding

List of Courses

Code	Title	Credits	Option
First Semester			
AB 5108	Principles of Plant Breeding	2	Compulsory
AB 5110	Crop Genetic Resources	1	Compulsory
AB 5111	Exploration and Characterization of PGR	2	Compulsory
AB 5113	Photosynthesis and Plant Productivity	2	Compulsory
AB 5120	Theory and Techniques of Plant Gene Manipulation	2	Compulsory
AB 5195 *	Practicum 1 - Biology	1	Compulsory
AB 5102	Water Relational and Nutrition	2	Optional
AB 5103	Plant Systematics	2	Optional
AB 5105	Cellular Genetics	2	Optional
AB 5109	Plant Reproductive Biology	1	Optional
AB 5115	Assessment of Genetic Diversity	1	Optional
AB 5116	Plant Biochemistry	2	Optional
AB 5154	Valuing Plant Genetic Resources	1	Optional
AB 5196**	Practicum in Biotechnology I	1	Optional
PP 5151	Plant Molecular Biology	2	Optional
CS 5114	Biodiversity	2	Optional
ST 5154	Statistical Genetics	2	Optional
Second Semester			
AB 5203	Stress Physiology	2	Compulsory
AB 5211	Methods in Plant Genetic Resources Conservation	2	Compulsory
AB 5213	Plant Growth and Development	1	Compulsory

AB 5214	Biotechnology in Plant Improvement	1	Compulsory
AB 5235	Scientific Communication in Biology	1	Compulsory
AB 5295*	Practicum 2 - Crop Improvement	1	Compulsory
AB 5297	Project	5	Compulsory
AB 5209	Nutritional Quality Improvement of Food Crops	1	Optional
AB 5210	Statistical genomics in biotechnology	2	Optional
AB 5215	Population Genetics	2	Optional
AB 5217	Breeding Strategies of Economic Crops	2	Optional
AB 5218	Character Inheritance Mechanisms	1	Optional
AB 5230	Plant Variety Protection, Intellectual Property Rights & Policy Issues	1	Optional
AB 5232	Variety Testing for Adaptability	1	Optional
AB 5296**	Practicum in Biotechnology II	1	Optional
AB 5299	Seminar	1	Optional
CS 5225	Advanced Plant Tissue Culture	2	Optional
ST 5202	Design and Analysis of Experiments	2	Optional
CS 5225	Advanced Plant Tissue Culture	2	Optional

* Each student must take at least One practicum (AB 5195 or AB 5295) to complete the degree. or allow to take Both for crediting.

** Students who wish to follow practicum 1 and II of Biotechnology Programme can follow those for crediting by making the relevant payments.