

**COURSES-MASTER'S DEGREE PROGRAM OUTPUTS MATRIX IN THE AGRICULTURAL GENETIC ENGINEERING DEPARTMENT**

Course Type	Course Code	Course Title	Credit			Program Outputs														
			Class	Practice	ECTS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>FALL</b>																				
Compulsory	AGE8001	Plant Molecular Biology Techniques	3	0	8	4	4	4	4	4	4	4	0	0	0	0	0	0	0	
Compulsory	AGE8003	Advanced Plant Breeding	3	0	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Compulsory	IOS8001	Scientific Research Techniques and Publication Ethics	3	0	8	0	0	0	0	4	0	0	0	0	0	4	4	4	4	
Elective	AGE6001	Special Topics	5	0	2	0	0	0	0	0	0	0	0	0	5	5	0	0	0	
Elective	AGE6003	Thesis Research (Thesis Proposal)	0	1	2	0	0	0	0	5	0	0	0	5	5	5	5	0	5	
Elective	AGE6007	Seminar	0	2	6	0	0	0	0	0	0	0	0	0	0	0	5	5	0	
Elective	AGE6005	Thesis Research	0	1	30	0	0	0	0	5	0	0	0	5	5	5	5	0	5	
Elective	AGE6101	Genetically Modified Plants	3	0	8	5	5	5	5	5	0	0	0	0	0	0	0	0	0	
Elective	AGE6103	Molecular Genetics of Plant Nutrition	2	0	8	5	5	5	5	5	5	5	0	5	5	0	0	0	0	
Elective	AGE6105	Cultivar Registration and Protection	3	0	8	0	0	5	0	0	5	5	0	0	5	5	0	0	0	
Elective	AGE6107	Genetic Resources and Plant Breeding	3	0	8	5	5	5	5	5	0	0	0	0	0	0	0	0	0	
Elective	AGE6109	Quantitative Genetics in Plant Breeding	3	0	8	5	5	5	5	5	0	0	0	0	0	0	0	0	0	
Elective	AGE6111	Molecular Markers in Plant Breeding	3	0	8	4	0	0	4	0	0	0	0	4	0	0	4	4	0	
Elective	AGE6113	Tissue Culture in Plant Breeding	3	0	8	0	4	0	0	0	0	0	0	0	0	4	0	0	0	
Elective	AGE6115	Plant Molecular Physiology	3	0	8	5	5	5	5	5	5	5	0	0	0	0	0	0	0	
Elective	AGE6117	Chromosome and Genome Structure	3	0	8	5	3	0	0	0	0	0	3	1	1	2	2	4	0	
<b>SPRING</b>																				
Compulsory	AGE8002	Experimental Techniques in Plant Breeding	3	0	8	5	5	5	5	5	0	0	0	0	0	0	0	0	0	
Compulsory	AGE8004	Genomics	3	0	8	4	4	0	4	0	0	0	0	4	4	4	4	4	0	
Elective	AGE6002	Special Topics	5	0	2	0	0	0	0	0	0	0	0	5	5	0	0	0	0	
Elective	AGE6004	Thesis Research (Thesis Proposal)	0	1	2	0	0	0	0	5	0	0	0	5	5	5	5	0	5	

Elective	AGE6008	Seminar	0	2	6	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0
Elective	AGE6006	Thesis Research	0	1	30	0	0	0	0	5	0	0	0	0	5	5	5	5	0	5
Elective	AGE6102	Laboratory Principles in Genetic Engineering	3	0	8	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0
Elective	AGE6104	Hybrid Breeding and Seed Production	3	0	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Elective	AGE6106	Collection and Management of Genetic Resources	3	0	8	5	5	5	5	5	5	5	0	0	0	0	0	0	0	0
Elective	AGE6108	Haploids in Plant Breeding	3	0	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Elective	AGE6110	Pollination and Fertilization in Plant Breeding	3	0	8	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0
Elective	AGE6112	Functional Genomics in Plant Breeding	3	0	8	4	4	0	0	0	0	0	0	0	4	0	0	0	0	0
Elective	AGE6114	Seed Technology and Industry	3	0	8	0	0	0	0	0	5	0	0	0	0	0	0	5	0	0
Elective	AGE6116	Plant Molecular Cytogenetics	3	0	8	5	4	0	0	0	0	0	5	2	2	3	3	4	0	4