

Faculty of Agronomy, Horticulture and Bioengineering

STUDY CURRICULUM

Field of study **Agronomy**

Subject	ECTS	Number of hours						Education unit
		Total (4+5+6+7+8)	Classes			Others with teacher	Students own work	
			Lectures	Exercises	Others			
1	2	3	4	5	6	7	8	9
Semester 1								
Crop Management	4	100	15	30		15	40	Department of Agronomy
Data Processing and Experimental Design	4	100	15	30		15	40	Department of Mathematical and Statistical Methods
Sustainable Crop Plants Fertilization	4	100	15	30		15	40	Department of Agricultural Chemistry and Environmental Biogeochemistry
Economic and legal aspects of running a business	4	100	30			15	55	Department of Law and Organization of Agribusiness Enterprises
Subject selected by students I	3	80	15	20		15	30	
Subject selected by students I	3	80	15	20		15	30	
M. Sc. Seminar I	3	95		30		10	55	
Practical training (4 weeks)	6	170				10	160	
Total	32	825	105	160		110	450	
Semester 2								
Biotechnology in Modern Agriculture	4	100	15	30		15	40	Department of Biochemistry and Biotechnology
Plant Breeding	4	100	15	30		5	50	Department of Genetics and Plant Breeding
Instrumental Analysis	4	100	15	30		15	40	Department of Agricultural Chemistry and Environmental Biogeochemistry
Soil Biology and Chemistry	4	100	15	30			55	Department of Soil Science and Land Protection, Department of Agricultural Chemistry and Environmental Biochemistry, Department of Genral and Environmental Microbiology
Subject selected by students II	3	80	15	20		15	30	
Subject selected by students II	3	80	15	20		15	30	
Subject selected by students II	3	80	15	20		15	30	
M. Sc. Seminar II	4	95		30		10	55	
Total	29	735	105	210		90	330	
Semester 3								

Diagnostics of Plant Nutritional Disorders	4	100	15	30		15	40	Department of Agricultural Chemistry and Environmental Biogeochemistry
Integrated Pest Management	4	100	15	30		10	45	Department of Agronomy
Biomass Production and Management	4	100	15	15	15	15	40	Department of Agronomy
Subject selected by students III	3	80	15	20		15	30	
Subject selected by students III	3	80	15	20		15	30	
Subject selected by students III	3	80	15	20		15	30	
M. Sc. Seminar III	4	110		30		20	60	
Total	25	650	90	165	15	105	275	
Semester 4								
Crop Protection in Practice	4	100		30		15	55	Department of Agronomy
Subject selected by students IV	3	80	15	20		15	30	
Subject selected by students IV	3	80	15	20		15	30	
M. Sc. Seminar IV	4	95		30		20	55	
Preparing M.Sc. Thesis	20	250				50	200	
Total	36	645	30	90		125	400	
Overall total	120	2825	330	635	15	420	1425	

List of subjects selected by students

Students choose three of four optional subjects in I, II and III semesters, and two of three optional subjects in IV semester.

Subject	Semester	Education unit
Environmental Biochemistry	I	Department of Biochemistry and Biotechnology
Protection and Enhancement of Soil Productivity	I	Department of Soil Science and Land Protection
Plant Tissue and Cell Culture	I	Department of Genetics and Plant Breeding
Cytogenetics and Chromosome Engineering	I	Department of Genetics and Plant Breeding
Microbiology of Natural Environments	II	Department of General and Environmental Microbiology
Grassland Management	II	Department of Grassland and Natural Landscape Sciences
Biodiversity of Agricultural Ecosystems	II	Department of Grassland and Natural Landscape Sciences
Molecular Plant Physiology	II	Department of Biochemistry and Biotechnology
Resistance Breeding of Plants	II	Department of Genetics and Plant Breeding
Nutrient Recycling and Biowastes	III	Department of Agricultural Chemistry and Environmental Biogeochemistry
Sustainable Agriculture on Peatland Ecosystems – Opportunities and Limitations	III	Department of Soil Science and Land Protection
Modern Aspects of Agricultural Microbiology	III	Department of General and Environmental Microbiology
Global Agriculture in a Changing World	III	Department of Agronomy
Plant Genomics	IV	Department of Genetics and Plant Breeding
Molecular Plant Breeding	IV	Department of Genetics and Plant Breeding
Tillage Systems	IV	Department of Agronomy
Plant Biotechnology	IV	Department of Biochemistry and Biotechnology