

**Faculty of Agronomy, Horticulture and Bioengineering**
**STUDY CURRICULUM**

 Field of study **Agronomy**

Subject	ECTS	Number of hours						Form of credit*	Unit
		Total (4+5+6+7+8)	Lectures	Exercises	Others	Others with teacher	Students own work		
1	2	3	4	5	6	7	8		
<b>Semester 1</b>									
Crop Management	4	100	15	30		15	40	EX	Department of Agronomy
Data Processing and Experimental Design	4	100	15	30		15	40	EX	Department of Mathematical and Statistical Methods
Sustainable Crop Plants Fertilization	4	100	15	30		15	40	EX	Department of Agricultural Chemistry and Environmental Biogeochemistry
Economic and legal aspects of the company's activities	5	125	30	15		20	60	EX	Department of Law and Organization of Agribusiness Enterprises
Subject selected by students I	3	75	15	20		20	20	EX	
Subject selected by students I	3	75	15	20		20	20	EX	
M. Sc. Seminar I	4	100		30		25	45	EX	
<b>Total</b>	<b>27</b>	<b>675</b>	<b>105</b>	<b>175</b>		<b>130</b>	<b>265</b>		
<b>Semester 2</b>									
Biotechnology in Modern Agriculture	4	100	15	30		15	40	EX	Department of Biochemistry and Biotechnology
Plant Breeding	4	100	15	30		15	40	EX	Department of Genetics and Plant Breeding
Instrumental Analysis	4	100	15	30		15	40	EX	Department of Agricultural Chemistry and Environmental Biogeochemistry
Soil Biology and Chemistry	4	100	15	30		15	40	EX	Department of Soil Science and Land Protection, Department of Agricultural Chemistry and Environmental Biochemistry, Department of General and Environmental Microbiology
Subject selected by students II	3	75	15	20		20	20	EX	
Subject selected by students II	3	75	15	20		20	20	EX	
Subject selected by students II	3	75	15	20		20	20	EX	
M. Sc. Seminar II	4	100		30		25	45	EX	

Master`s degree training (4 weeks)**	6	165				5	160	EX	
<b>Total</b>	<b>35</b>	<b>890</b>	<b>105</b>	<b>210</b>		<b>150</b>	<b>425</b>		
<b>Semester 3</b>									
Diagnostics of Plant Nutritional Disorders	4	100	15	30		15	40	EX	Department of Agricultural Chemistry and Environmental Biogeochemistry
Integrated Pest Management	4	100	15	30		15	40	EX	Department of Agronomy
Biomass Production and Management	4	100	15	30		15	40	EX	Department of Agronomy, Department of Soil Science and Land Protection
Subject selected by students III	3	75	15	20		20	20	EX	
Subject selected by students III	3	75	15	20		20	20	EX	
Subject selected by students III	3	75	15	20		20	20	EX	
M. Sc. Seminar III	4	100		30		25	45	EX	
<b>Total</b>	<b>25</b>	<b>625</b>	<b>90</b>	<b>180</b>		<b>130</b>	<b>225</b>		
<b>Semester 4</b>									
Crop Protection in Practice	4	95		30		15	50	EX	Department of Agronomy
Subject selected by students IV	3	75	15	20		20	20	EX	
Subject selected by students IV	3	75	15	20		20	20	EX	
M. Sc. Seminar IV	3	75		30		15	30	EX	
Preparing M.Sc. Thesis	20	510				60	450	EX	
<b>Total</b>	<b>33</b>	<b>830</b>	<b>30</b>	<b>100</b>		<b>130</b>	<b>570</b>		
<b>Overall total</b>	<b>120</b>	<b>3020</b>	<b>330</b>	<b>665</b>		<b>540</b>	<b>1485</b>		

\*EX – exam;

\*\*Master`s degree training takes place during semester II or during the summer break after semester II in the unit where the student is working on his/her master`s thesis

List of subjects selected by students

Student choose two of four optional subjects in I semester, three of five in II semester, three of four in III semester, and two of four 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