

Field of study: Horticulture: Seed Science and Technology

STUDY CURRICULUM

Course	Number of ECTS credits	Number of hours							Asses-ment ³	Type of study group ⁴	Department
		Total (4+5+6+7+8+9)	Classes with direct participation of teachers and students					ESW			
			Lectures	Classes ¹	Field classes	Cons.	Others ²				
1	2	3	4	5	6	7	8	9	10	11	12
Semester 1:											
1. Statistics, biometrics and trial procedures	4	100	15	15		8		62	EX	GB	Department of Mathematical and Statistical Methods
2. Genetics and plant breeding	5	125	15	30		10		70	EX	GB	Department of Genetics and Plant Breeding
3. Sowing material production	5	125	25	15+5P	10	8		62	EX	GB	Department of Phytopathology, Seed Science and Technology
4. Seed quality evaluation	5	125	15	35L	5	8		62	EX	GB	Department of Phytopathology, Seed Science and Technology
5. A. Plant irrigation and fertilization B. Automation in horticulture	4	100	15	30		6		49	GA	GB	Department of Vegetable Crops; Department of Plant Physiology Department of Vegetable Crops; Department of Plant Physiology
6. A. Environmental protection in horticulture B. The impact of horticultural production on biodiversity	4	100	15	30		5		50	GA	GB	Department of Entomology and Environmental Protection Department of Entomology and Environmental Protection
7. Degree seminar	3	75	0	20		5		50	GA	GB	Department of Phytopathology, Seed Science and Technology
total number of hours – semester 1:	30	750	100	180	15	50		405			
Semester 2:											
1. Seed biology	6	150	25	20L+20P		12		73	EX	GB	Department of Phytopathology, Seed Science and Technology
2. Seed pathology	6	150	20	25L+20P		12		73	EX	GB	Department of Phytopathology, Seed Science and Technology

3. Sustainable horticulture	4	100	15	25		6		54	GA	GB	Department of Vegetable Crops; Department of Ornamental Plants, Dendrology and Pomology
4. A. Molecular biology B. Aspects of plant diseases in horticultural crops	5	125	15	30L 25		8		72	GA	GB	Department of Genetics and Plant Breeding Department of Phytopathology, Seed Science and Technology
5. Degree seminar	3	75	0	30		6		39	GA	GB	Department of Phytopathology, Seed Science and Technology
6. Diploma training I	6	150	0	0		150		0	Pass		Departments of the Agriculture, Horticulture and Biotechnology Faculty
total number of hours – semester 2:	30	750	75 85	170 160	0	194		311			
Semester 3											
1. Pomological nursery	4	100	20	10	15	6		49	EX	GB	Department of Ornamental Plants, Dendrology and Pomology
2. Ornamental nursery	3	75	15	10	10	5		35	EX	GB	Department of Ornamental Plants, Dendrology and Pomology
3. Seed storage	3	75	15	15P		5		40	EX	GB	Department of Phytopathology, Seed Science and Technology
4. A. Integrated plant protection B. Modern trends in crop protection	3	75	15	15P		6		39	GA	GB	Department of Phytopathology, Seed Science and Technology; Department of Entomology and Environmental Protection Department of Entomology and Environmental Protection; Department of Phytopathology, Seed Science and Technology
5. A. Herbs seed production B. Herbalism	4	100	15	25		8		52	GA	GB	Department of Phytopathology, Seed Science and Technology; Department of Vegetable Crops Department of Vegetable Crops
6. A. Marketing management of a breeding and seed enterprise B. Marketing management of an agribusiness enterprise	4	100	15	25		8		52	EX	GB	Department of Law and Enterprise Management in Agribusiness Department of Law and Enterprise Management in Agribusiness
7. Degree seminar	3	75	0	30		6		39	GA	GB	Department of Phytopathology, Seed Science and Technology,

8. Diploma training II	6	150	0	0		150		0	Pass		Departments of the Agriculture, Horticulture and Biotechnology Faculty
total number of hours – semester 3:	30	750	95	130	25	194		306			
Semester 4											
1. Extension and logistics in seed industry	5	125	30	10	20	8		57	EX	GB	Department of Phytopathology, Seed Science and Technology
2. A. Economics of horticulture B. Market of horticultural products	2	50	15	15		4		16	GA	GB	Department of Law and Enterprise Management in Agribusiness Department of Law and Enterprise Management in Agribusiness
3. Degree seminar	3	75	0	30		6		39	GA	GB	Department of Phytopathology, Seed Science and Technology
4. Diploma thesis	12	300	0	0		130		170			A supervisor of the thesis
5. Preparing for the diploma exam	8	200	0	0		30		170			A supervisor of the seminar group
total number of hours – semester 4:	30	750	45	55	20	178		452			
total for studies:	120	3000	315 325⁵	535 525	60	616		1474			

¹ P – practical classes; L – laboratory classes

² any activities other than conversatory, laboratory or design classes (e.g. site visits, case study visits, excursions and others)

² EX – examination; GA – graded assignment; Pass – no grade

⁴ study group type according to the PULS Senate Resolution on study group types

⁵ depends on the selected course

ESW - estimated number of student work hours