

## STUDY CURRICULUM

### Horticulture: Seed Science and Technology

Course	Number of ECTS credits	Number of hours						asses-ment <sup>3</sup>	Department/Institute
		Total (4+5+6+7+8)	teaching hours			contact hours	ESW <sup>2</sup>		
			lectures	pract. classes	others <sup>1</sup>				
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>
<b>Semester 1</b>									
Statistics, biometrics and trial procedures	5	125	15	15		20	75	EX	Mathematical and Statistical Methods
Genetics and plant breeding	6	150	15	30		30	75	EX	Genetics and Plant Breeding
Sowing material production	6	150	25	15+20P		35	55	EX	Phytopathology, Seed Science and Technology
New technologies in seed processing	5	125	20	0	30	30	45	EX	Phytopathology, Seed Science and Technology
Seed quality evaluation	5	125	15	35L	5	30	40	EX	Phytopathology, Seed Science and Technology
Degree seminar	2	50	0	15		10	25	GA	Phytopathology, Seed Science and Technology
<b>total number of hours – semester 1</b>	<b>29</b>	<b>725</b>	<b>90</b>	<b>130</b>	<b>35</b>	<b>155</b>	<b>315</b>		

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>
<b>Semester 2</b>									
Molecular biology/Molecular diagnostics of plant diseases	6	150	15	30L		30	75	GA	Genetics and Plant Breeding/ Phytopathology, Seed Science and Technology
Sustainable horticulture/Modern trends in horticulture	8	200	30	45		40	85	EX	<b>Vegetable Crops</b> ; Phytopathology Seed Science and Technology; Entomology and Environmental Protection and Management; Dendrology, Pomology and Nursery/ <b>Phytopathology, Seed Science and Technology</b> ; Entomology and Environmental Protection and Management; Dendrology, Pomology and Nursery; Plant Nutrition, Vegetable Crops
Seed biology	7	175	25	20L+20P		35	75	EX	Phytopathology, Seed Science and Technology
Tropical crops seed production/Oriental vegetables seed production	3	75	25	5		15	30	GA	Phytopathology, Seed Science and Technology/ Phytopathology, Seed Science and Technology
Degree seminar	3	75	0	25		15	35	GA	Phytopathology, Seed Science and Technology
Diploma training (4 weeks)	5	125	0	0		30	95		
total number of hours – semester 2	<b>32</b>	<b>800</b>	<b>95</b>	<b>145</b>		<b>165</b>	<b>395</b>		

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>
<b>Semester 3</b>									
Pomological nursery	3	75	20	10	15	10	20	GA	<b>Phytopathology, Seed Science and Technology</b> ; Dendrology, Pomology and Nursery
Ornamental nursery	4	100	15	10	10	20	45	EX	Dendrology, Pomology and Nursery
Seed pathology	8	200	25	25L+15P		40	95	EX	Phytopathology, Seed Science and Technology
Herbs seed production/ Medicinal plants and mushrooms	5	125	15	15L	15	30	50	EX	<b>Phytopathology, Seed Science and Technology</b> ; Vegetable Crops/Vegetable Crops
Business management and logistics in seed industry	6	150	30	15	15	30	60	EX	Phytopathology, Seed Science and Technology
Seed storage/Integrated plant protection	4	100	15	15P		20	50	EX	Phytopathology, Seed Science and Technology/ <b>Phytopathology, Seed Science and Technology</b> ; Entomology and Environmental Protection and Management
Degree seminar	3	75	0	25		15	35	GA	Phytopathology, Seed Science and Technology
total number of hours – semester 3	<b>33</b>	<b>825</b>	<b>120</b>	<b>130</b>	<b>55</b>	<b>165</b>	<b>355</b>		

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>
<b>Semester 4</b>									
Extension in seed industry	4	100	15	5	10	30	40	EX	Phytopathology, Seed Science and Technology
Degree seminar	2	50	0	20		10	20	GA	Phytopathology, Seed Science and Technology
Diploma thesis	12	300	0	0		150	150		A supervisor of the thesis
Self-study for the diploma exam/ Master thesis laboratory	8	200	0	0		20	180		A supervisor of the seminar group
total number of hours – semester 4	<b>26</b>	<b>650</b>	<b>15</b>	<b>25</b>	<b>10</b>	<b>210</b>	<b>390</b>		
<b>total for studies (four semesters)</b>	<b>120</b>	<b>3000</b>	<b>320</b>	<b>430</b>	<b>100</b>	<b>695</b>	<b>1455</b>		

<sup>1</sup> any activities other than conversatory, laboratory or design classes (e.g. site visits, case study visits, excursions and others)

<sup>2</sup> EX – examination; GA – graded assignment;

**ESW** - estimated number of student work hours