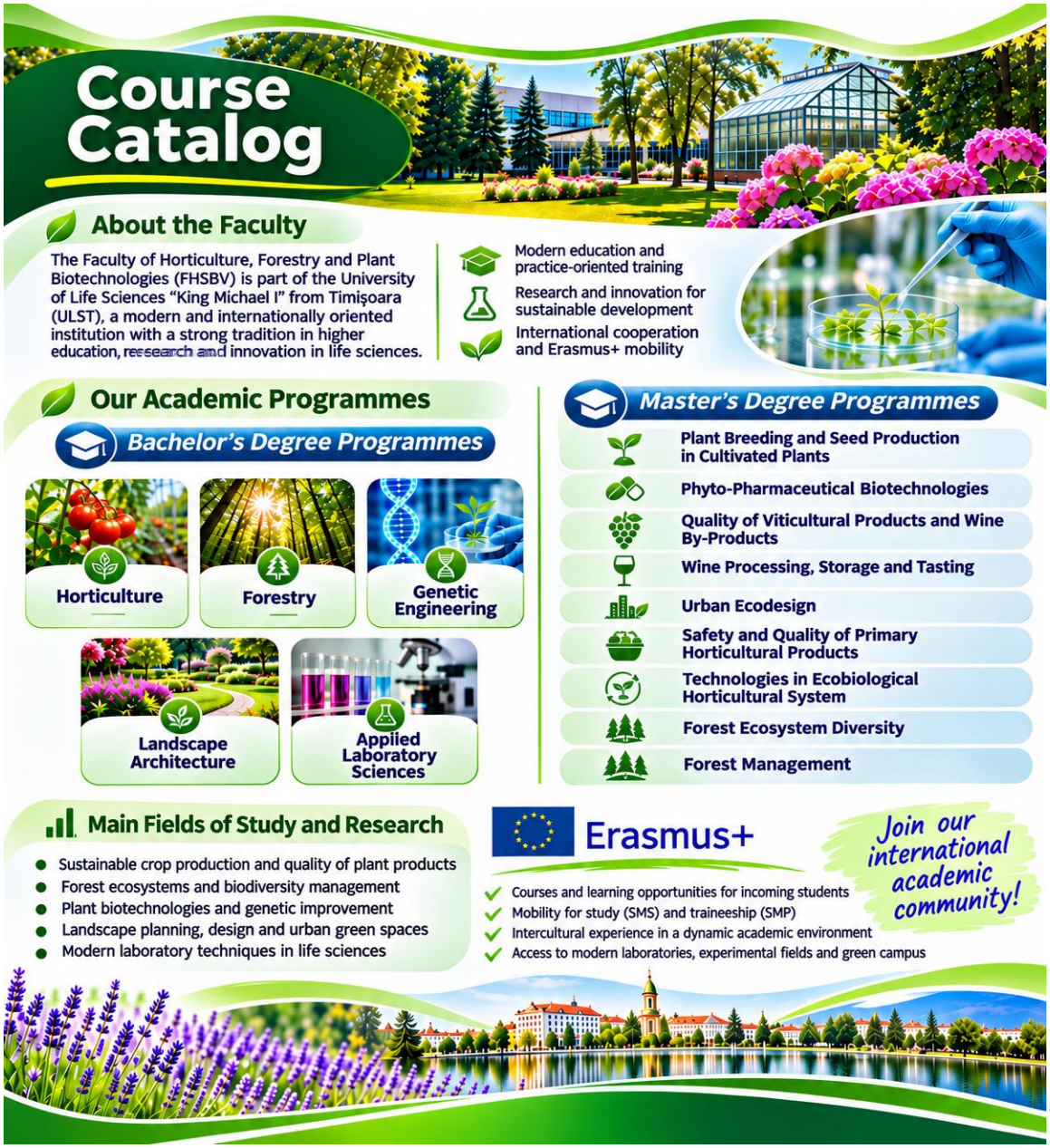
Academic year 2026/2027

FACULTY OF HORTICULTURE, FORESTRY AND PLANT BIOTECHNOLOGIES



Important Information for Incoming Erasmus+ Students: The main language of instruction is Romanian, and not all courses are regularly taught in English. Academic support in English may be available, depending on the course and arrangements with the teaching staff.

https://www.usab-tm.ro/en/facultate/facultatea-de-horticultura-si-silvicultura

FACULTY OF HORTICULTURE, FORESTRY AND PLANT BIOTECHNOLOGIES

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Specialization: Bachelor in **HORTICULTURE**
EQF LEVEL: 6
Field of study: **HORTICULTURE**
Duration: 4 years, 240 ECTS
Full-time learning
Language of teaching: Romanian



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	1ST YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Mathematics and informatics	H.01.F.DOB.1	4
2.	Biochemistry	H.02.F.DOB.1	4
3.	Botany	H.03.S.DOB.1	4
4.	Pedology	H.04.S.DOB.1	4
5.	Microbiology	H.05.F.DOB.1	5
6.	Topography and cadastre	H.06.C.DOB.1	3
7.	Genetics	H.07.F.DOB.1	4
8.	English Language	H.15.C.DOP.1	2
	French Language	H.16.C.DOP.1	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Botany	H.08.S.DOB.2	4
2.	Biophysics agrometeorology	H.09.F.DOB.2	4
3.	Energy basis and horticultural machines	H.10.S.DOB.2	4
4.	Land improvement	H.11.S.DOB.2	4
5.	Genetics	H.12.F..DOB.2	4
6.	Agrochemistry	H.13.S.DOB.2	4
7.	Practical training	H.14.S.DOB.2	4
8.	English Language	H.17.C.DOP.2	2
	French Language	H.18.C.DOP.2	
		TOTAL	**30**

	2NDYEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Plant physiology	H.01.F.DOB.3	5
2.	Experimental technique	H.02.S.DOB.3	4

3.	Soil work management	H.03.S.DOB.3	5
4.	Agro-phytotechnology	H.04.S.DOB.3	5
5.	Horticultural constructions	H.05.S.DOB.3	4
6.	Arboriculture	H.06.S.DOB.3	5
7.	The history of horticulture in Romania	H.14.S.DOP.3	2
	The history of horticulture in Europe	H.15.S.DPO.3	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Plant Physiology	H.07.F.DOB.4	4
2.	Ecology and environmental protection	H.08.C.DOB.4	3
3.	Entomology	H.09.S.DOB.4	4
4.	Landscape architecture	H.10.S.DOB.4	4
5.	Phytopatology	H.11.S.DOB.4	3
6.	Vegetal biotechnologies	H.12.S.DOB.4	4
7.	Practical training	H.13.S.DOB.4	4
8.	Management	H.16.S.DOP.4	4
	Marketing	H.17.S.DOP.4	
		TOTAL	**30**

	3RD YEAR **First Semester**		
No.	**Course title**	**Code**	**ECTS**
1.	Vegetable growing	H.01.S.DOB.5	5
2.	Fruit growing	H.02.S.DOB.5	5
3.	Viticulture	H.03.S.DOB.5	5
4.	Floriculture	H.04.S.DOB.5	5
5.	Plant breeding	H.05.S.DOB.5	4
6.	Accounting	H.06.S.DOB.5	2
7.	Horticultural product contaminants	H.14.S.DOP.5	2

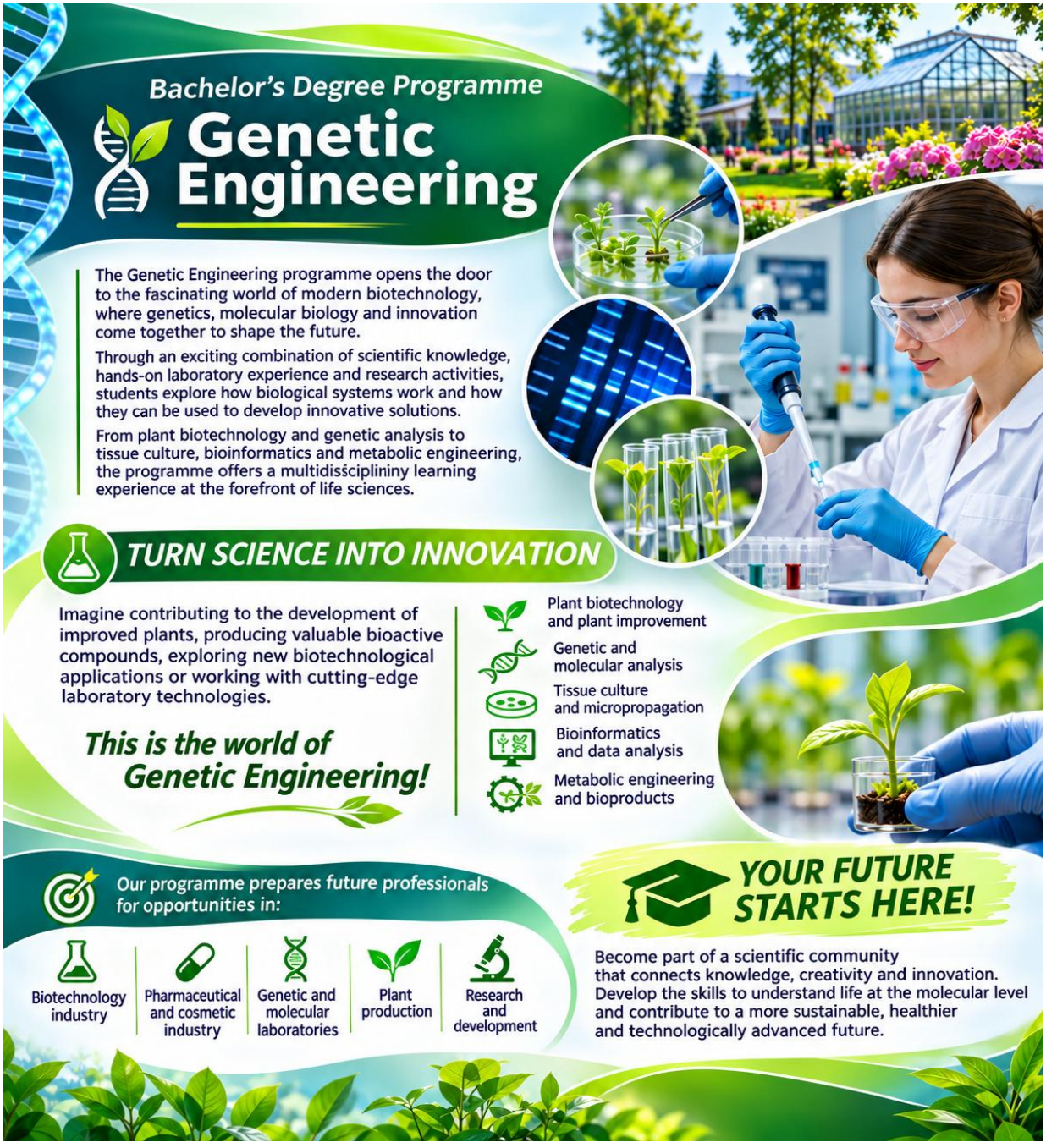
	Prognosis, forecast and phytosanitary quarantine in horticulture	H.15.S.DOP.5	
8.	Horticultural ecosystems	H.18.C.DOP.5	2
	Urban horticulture	H.19.C.DOP.5	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Vegetable growing	H.07.S.DOB.6	4
2.	Fruit growing	H.08.S.DOB.6	5
3.	Viticulture	H.09.S.DOB.6	5
4.	Floriculture	H.10.S.DOB.6	4
5.	Plant breeding	H.11.S.DOB.6	4
6.	Crop irrigation	H.12.S.DOB.6	2
7.	Practical training	H.13.S.DOB.6	4
8.	Mushroom farming and marketing	H.16.S.DOP.6	2
	Soil-free horticultural crops	H.17.S.DOP.6	
		TOTAL	**30**

	4TH YEAR **First Semester**		
No.	**Course title**	**Code**	**ECTS**
1.	Special vegetable growing	H.01.S.DOB.7	5
2.	Pomology	H.02.S.DOB.7	5
3.	Ampelography	H.03.S.DOB.7	5
4.	Technology of horticultural products	H.04.S.DOB.7	5
5.	Oenology	H.05.S.DOB.7	5
6.	Management and conservation of genetic resources	H.06.S.DOB.7	3
7.	Ethics and academic integrity	H.07.C.DOB.7	2
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**

1.	Special vegetable growing	H.08.S.DOB.8	4
2.	Pomology	H.09.S.DOB.8	4
3.	Ampelography	H.10.S.DOB.8	4
4.	Horticultural product technology	H.11.S.DOB.8	4
5.	Oenology	H.12.S.DOB.8	4
6.	Seed and propagating material production in horticultural plants	H.13.S.DOB.8	2
7.	Developing the graduation project	H.14.S.DOB.8	6
8.	Optimization of inputs in horticultural crops	H.15.C.DOP.8	2
	Permaculture	H.16.C.DOP.8	
		TOTAL	**30**

Specialization: Bachelor in **GENETIC ENGINEERING**
EQF LEVEL: 6
Field of study: **BIOTECHNOLOGY**
Duration: 4 years, 240 ECTS
Full-time learning
Language of teaching: Romanian

Discover Life. Engineer the Future



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	1ST YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Biochemistry	IG.01.F.DOB.1	5
2.	Mathematics and informatics	IG.02.F.DOB.1	4
3.	Botany	IG.03.F.DOB.1	4
4.	Microbiology	IG.04.F.DOB.1	5
5.	Chemistry	IG.05.F.DOB.1	5
6.	Biotechnology laboratory organization rules	IG.06.S.DOB.1	5
7.	English Language	IG.15.C.DOP.1	2
	French Language	IG.16.C.DOP.1	
		TOTAL	**30**
Second Semester			
1.	Botany	IG.07.F.DOB.2	4
2.	Cell biology	IG.08.S.DOB.2	5
3.	Biostatistics	IG.09.S.DOB.2	3
4.	Analytical chemistry and instrumental analysis	IG.10.S.DOB.2	5
5.	Biophysics and meteorology	IG.11.C.DOB.2	3
6.	Ecology and environmental protection	IG.12.C.DOB.2	2
7.	Raw matter used in biotechnologies	IG.13.S.DOB.2	3
8.	Practical training	IG.14.S.DOB.2	3
9.	English Language	IG.17.C.DOP.2	2
	French Language	IG.18.C.DOP.2	
		TOTAL	**30**

	2ND YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Integrative genetics	IG.01.F.DOB.3	5
2.	Plant physiology	IG.02.S.DOB.3	5
3.	Molecular biology	IG.03.S.DOB.3	5
4.	Applied microbiology	IG.04.S.DOB.3	4
5.	Experimental technique	IG.05.S.DOB.3	5

6.	Special enzymology	IG.06.S.DOB.3	2
7.	Communication	IG.07.C.DOB.3	2
8.	Flow cytometry-based cellular analysis techniques	IG.15.S.DOP.3	2
	Principles and applications of flow cytometry	IG.16.S.DOP.3	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Integrative genetics	IG.08.F.DOB.4	4
2.	Plant physiology	IG.09.S.DOB.4	4
3.	Molecular biology	IG.10.S.DOB.4	5
4.	General biotechnology	IG.11.S.DOB.4	4
5.	Cell and tissue cultures	IG.12.S.DOB.4	4
6.	Plant protection by biotechnological methods	IG.13.S.DOB.4	2
7.	Practical training	IG.14.S.DOB.4	4
8.	Modern conservation tillage systems	IG.17.S.DOP.4	3
	Technological processes in organic agriculture	IG.18.S.DOP.4	
		TOTAL	**30**

	3RD YEAR **First Semester**		
No.	**Course title**	**Code**	**ECTS**
1.	Genetic resource management and conservation	IG.01.S.DOB.5	5
2.	Genetic engineering	IG.02.S.DOB.5	5
3.	Plant breeding	IG.03.S.DOB.5	5
4.	Quantitative genetics	IG.04.S.DOB.5	5
5.	Horticultural technologies	IG.05.S.DOB.5	4

6.	Conditioning and preservation of biotechnological products	IG.06.S.DOP.5	4
7.	Career counseling and guidance	IG.14.C.DOP.5	2
	Leadership and organizational behavior	IG.15.C.DOP.5	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Genetic engineering	IG.07.S.DOB.6	4
2.	Plant breeding	IG.08.S.DOB.6	4
3.	Quantitative genetics	IG.09.S.DOB.6	4
4.	Horticultural technologies	IG.10.S.DOB.6	4
5.	Cell and tissue cultures	IG.11.S.DOB.6	4
6.	Industrial biotechnologies	IG.12.S.DOB.6	3
7.	Practical training	IG.13.S.DOB.6	4
8.	Virusology	IG.16.S.DOP.6	3
	Genetics of microorganisms	IG.17.S.DOP.6	
		TOTAL	**30**

	4TH YEAR **First Semester**		
No.	**Course title**	**Code**	**ECTS**
1.	Industrial biotechnologies	IG.01.S.DOB.7	6
2.	Use of biotechnologies for creation and multiplication of cultivars	IG.02.S.DOB.7	6
3.	Molecular markers	IG.03.S.DOB.7	6
4.	Seed production and propagation material methodology	IG.04.S.DOB.7	6
5.	Ethics and academic integrity	IG.05.C.DOB.7	2
6.	Accounting and Financial Analysis	IG.06.C.DOB.7	2
7.	Biohazard	IG.13.S.DOP.7	2
	Genetically modified organisms	IG.14.S.DOP.7	
		TOTAL	**30**

Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Laboratory quality management	IG.07.S.DOB.8	4
2.	Principles and techniques in genomics	IG.08.S.DOB.8	4
3.	Micropropagation	IG.09.S.DOB.8	4
4.	Bioinformatics	IG.10.S.DOB.8	3
5.	Bioclimatology and ecophysiology	IG.11.S.DOB.8	3
6.	Practical training - diploma project elaboration	IG.12.S.DOB.8	6
7.	Control and expertise of biotechnological products	IG.15.S.DOP.8	4
	Modern biotechnologies	IG.16.S.DOP.8	
8.	English Language	IG.17.C.DOP.8	2
	French Language	IG.18.C.DOP.8	
		TOTAL	**30**

Specialization: Bachelor in **FORESTRY**
EQF LEVEL: 6
Field of study: **FORESTRY**
Duration: 4 years, 240 ECTS
Full-time learning
Language of teaching: Romanian



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	1ST YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Basics of forestry and the history of silviculture	S.01.S.DOB.1	4
2.	Biochemistry	S.02.F.DOB.1	5
3.	Botany I	S.03.F.DOB.1	5
4.	Matematics and Informatics	S.04.F.DOB.1	4
5.	Pedology	S.05.F.DOB.1	5
6.	Topography and cadastre	S.06.F.DOB.1	5
7.	English Language	S.13.C.DOP.1	2
	French Language	S.14.C.DOP.1	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Biophysics and meteorology	S.07.F.DOB.2	3
2.	Biostatistics	S.08.F.DOB.2	4
3.	Botany II	S.09.F.DOB.2	5
4.	Plant physiology	S.10.F.DOB.2	5
5.	Mechanics and resistance	S.11.S.DOB.2	4
6.	Practical training	S.12.S.DOB.2	4
7.	English Language	S.15.C.DOP.2	2
	French Language	S.16.C.DOP.2	
8.	Geospatial information systems	S.17.S.DOP.2	3
	Comunication	S.18.S.DOP.2	
		TOTAL	**30**

	2ND YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Biodiversity conservation	S.01.S.DOB.3	5
2.	Engines and machines general course	S.02.S.DOB.3	4

3.	Dendrology I	S.03.S.DOB.3	5
4.	Dendrometry	S.04.S.DOB.3	5
5.	Ethology	S.05.S.DOB.3	3
6.	Soil tillage management	S.06.S.DOB.3	5
7.	Silvotourism	S.14.S.DOP.3	3
	Bioinformatics	S.15.S.DOP.3	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Dendrology II	S.07.S.DOB.4	5
2.	Ecology and environmental protection	S.08.S.DOB.4	4
3.	Forest Entomology	S.09.S.DOB.4	5
4.	Photogrammetry	S.10.S.DOB.4	4
5.	Impact of climate change	S.11.S.DOB.4	4
6.	Afforestation	S.12.S.DOB.4	4
7.	Practical training	S.13.S.DOB.4	4
		TOTAL	**30**

	3RD YEAR **First Semester**		
No.	**Course title**	**Code**	**ECTS**
1.	Genetics	S.01.S.DOB.5	5
2.	Materials and construction	S.02.S.DOB.5	5
3.	Silviculture I	S.03.S.DOB.5	5
4.	Forest stations	S.04.S.DOB.5	4
5.	Forest transportation	S.05.S.DOB.5	5
6.	Forest management	S.13.S.DOP.5	3
	Silviculture in other geographical areas	S.14.S.DOP.5	
7.	Career counseling and guidance	S.15.C.DOP.5	3
	Leadership and organizational behavior	S.16.C.DOP.5	
		TOTAL	**30**

Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Forest improvement	S.06.S.DOB.6	4
2.	Forest planning I	S.07.S.DOB.6	4
3.	Torrent correction I	S.08.S.DOB.6	4
4.	Wood exploitation I	S.09.S.DOB.6	4
5.	Forest phytopathology	S.10.S.DOB.6	5
6.	Silviculture II	S.11.S.DOB.6	5
7.	Practical training	S.12.S.DOB.6	4
		TOTAL	**30**

	4TH YEAR **First Semester**		
No.	**Course title**	**Code**	**ECTS**
1.	Forest planning II	S.01.S.DOB.7	5
2.	Torrent correction II	S.02.S.DOB.7	5
3.	Forest economy	S.03.S.DOB.7	4
4.	Academic ethics and integrity	S.04.C.DOB.7	2
5.	Wood exploitation II	S.05.S.DOB.7	5
6.	Hunting and salmonid fauna I	S.06.S.DOB.7	5
7.	Forestry products	S.07.S.DOB.7	4
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Landscape architecture	S.08.S.DOB.8	3
2.	Hunting and salmonid fauna II	S.09.S.DOB.8	4
3.	Forestry mechanization	S.10.S.DOB.8	4
4.	Micropropagation	S.11.S.DOB.8	4
5.	The study of wood	S.12.S.DOB.8	4
6.	Developing the graduation project	S.13.S.DOB.8	6
7.	Forestry law and legislation	S.14.S.DOP.8	3
	Management and marketing	S.15.S.DOP.8	

8.	Environmental assessment for forest management plans	S.16.S.DOP.8	2
	Work science and ergonomics	S.17.S.DOP.8	
		TOTAL	**30**

Specialization: Bachelor in **Landscape design**
EQF LEVEL: 6
Field of study: **Horticulture**
Duration: 4 years, 240 ECTS
Full-time learning
Language of teaching: Romanian and English Language



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	1ST YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Mathematics and informatics	P.01.F.DOB.1/PE.01.F.DOB.1	4
2.	Botany	P.02.F.DOB.1/PE.02.F.DOB.1	5
3.	Pedology	P.03.F.DOB.1/PE.03.F.DOB.1	4
4.	Drawing and graphic representations	P.04.F.DOB.1/PE.04.F.DOB.1	5
5.	Descriptive geometry and perspective	P.05.F.DOB.1/PE.05.F.DOB.1	5
6.	History of gardens and designed landscapes	P.06.F.DOB.1/PE.06.F.DOB.1	5
7.	English language	P.15.C.DOP.1/PE.15.C.DOP.1	2
	French language	P.16.C.DOP.1/PE.16.C.DOP.1	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Botany	P.07.F.DOB.2/PE.07.F.DOB.2	3
2.	Biophysics and meteorology	P.08.F.DOB.2/PE.08.F.DOB.2	3
3.	Drawing and graphic representations	P.09.F.DOB.2/PE.09.F.DOB.2	4
4.	History of gardens and landscapes	P.10.F.DOB.2/PE.10.F.DOB.2	4
5.	Energy bases and horticultural machines	P.11.F.DOB.2/PE.11.F.DOB.2	3
6.	Agrochemistry	P.12.F.DOB.2/PE.12.F.DOB.2	3
7.	Plant physiology	P.13.F.DOB.2/PE.13.F.DOB.2	4
8.	Internship	P.14.S.DOB.2/PE.14.S.DOB.2	4
9.	English language	P.17.C.DOP.2/PE.17.C.DOP.2	2
	French language	P.18.C.DOP.2/PE.18.C.DOP.2	
		TOTAL	**30**

	2ND YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Soil management practices	P.01.F.DOB.3/PE.01.F.DOB.3	5
2.	Dendrology	P.02.F.DOB.3/PE.02.F.DOB.3	5
3.	Landscape planning	P.03.S.DOB.3/PE.03.S.DOB.3	3

4.	Materials and constructions	P.04.S.DOB.3/PE.04.S.DOB.3	4
5.	Topography and cadastre	P.05.F.DOB.3/PE.05.F.DOB.3	3
6.	Genetics	P.06.F.DOB.3/PE.06.F.DOB.3	3
7.	Plant breeding	P.07.F.DOB.3/PE.07.F.DOB.3	3
8.	Nature-based solution in urban landscaping	P.17.S.DOP.3/PE.17.S.DOP.3	4
	Landscape irrigation systems	P.18.S.DOP.3/PE.18.S.DOP.3	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Dendrology	P.08.F.DOB.4/PE.08.F.DOB.4	4
2.	Landscape planning	P.09.S.DOB.4/PE.09.S.DOB.4	4
3.	Ecology and environment protection	P.09.S.DOB.4/PE.10.F.DOB.4	3
4.	Lawns and pastures	P.11.S.DOB.4/PE.11.S.DOB.4	4
5.	Land improvement	P.12.S.DOB.4/PE.12.F.DOB.4	3
6.	Plant compositions in landscape design	P.13.S.DOB.4/PE.13.S.DOB.4	4
7.	Internship	P.14.S.DOB.4/PE.14.S.DOB.4	4
8.	Landscape design	P.15.S.DOP.4/PE.15.S.DOP.4	4
	Composition and form study	P.16.S.DOP.4/PE.16.S.DOP.4	
		TOTAL	**30**

	3RD YEAR **First Semester**		
No.	**Course title**	**Code**	**ECTS**
1.	Landscape management	P.01.S.DOB.5/PE.01.S.DOB.5	5
2.	Landscaping computer programs	P.02.S.DOB.5/PE.02.S.DOB.5	5
3.	Computer-assisted design	P.03.S.DOB.5/PE.03.S.DOB.5	5
4.	Urban planning and landscaping	P.04.S.DOB.5/PE.04.S.DOB.5	4
5.	Embankments, roads and urban networks	P.05.S.DOB.5/PE.05.S.DOB.5	3
6.	Floriculture	P.06.S.DOB.5/PE.06.S.DOB.5	5
7.	Career counseling and guidance	P.17.C.DOP.5/PE.17.C.DOP.5	3
	Leadership and organizational behavior	P.18.C.DOP.5/PE.18.C.DOP.5	
		TOTAL	**30**

Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Landscape architecture	P.07.S.DOB.6/PE.07.S.DOB.6	3
2.	Viticulture	P.08.S.DOB.6/PE.08.S.DOB.6	4
3.	Computer-assisted design	P.09.S.DOB.6/PE.09.S.DOB.6	3
4.	Urban planning and landscaping	P.10.S.DOB.6/PE.10.S.DOB.6	3
5.	Fruit growing	P.11.S.DOB.6/PE.11.S.DOB.6	3
6.	Floriculture	P.12.S.DOB.6/PE.12.S.DOB.6	4
7.	Vegetable growing	P.13.S.DOB.6/PE.13.S.DOB.6	4
8.	Internship	P.14.S.DOB.6/PE.14.S.DOB.6	4
9.	GIS	P.15.S.DOP.6/PE.15.S.DOP.6	2
	Landscape representations	P.16.S.DOP.6/PE.16.S.DOP.6	
		TOTAL	**30**

	4TH YEAR **First Semester**		
No.	**Course title**	**Code**	**ECTS**
1.	Territorial and urban landscaping	P.01.S.DOB.7	5
2.	Accounting	P.02.S.DOB.7	4
3.	Arboriculture	P.03.S.DOB.7	5
4.	Ornamental indoor plants	P.04.S.DOB.7	5
5.	Floral art	P.05.S.DOB.7	5
6.	Utility and ornamental facilities	P.06.S.DOB.7	4
7.	Ethics and integrity integrity	P.07.C.DOB.7	2
8.			
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Micropropagation	P.08.F.DOB.8	2
2.	Territorial and urban landscaping	P.09.S.DOB.8	2
3.	Phytopathology	P.10.F.DOB.8	2
4.	Entomology	P.11.F.DOB.8	3
5.	Landscape restoration and rehabilitation	P.12.S.DOB.8	3
6.	3D Modeling	P.13.S.DOB.8	4
7.	Landscaping technique	P.14.S.DOB.8	2
8.	Landscape maintenance technique	P.15.S.DOB.8	3

9.	Practical training - diploma project elaboration	P.16.S.DOB.8	6
10.	Management	P.17.C.DOP.8	3
	Marketing	P.18.C.DOP.8	
		TOTAL	**30**

Specialization: Bachelor in **Applied Laboratory Sciences**
EQF LEVEL: 6
Field of study: **Engineering Sciences**
Duration: 4 years, 240 ECTS
Full-time learning
Language of teaching: Romanian



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	1ST YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Linear algebra, analytical and differential geometry	SLA.01.F.DOB.1	4
2.	Biology	SLA.02.S.DOB.1	5
3.	Probability theory and mathematical statistics 1	SLA.03.F.DOB.1	3
4.	Applied informatics	SLA.04.F.DOB.1	4
5.	Chemistry 1	SLA.05.F.DOB.1	5
6.	Microbiology	SLA.06.S.DOB.1	5
7.	Physical education and sport	SLA.07.C.DOB.1	2
8.	English Language	SLA.16.C.DOP.1	2
	French Language	SLA.17.C.DOP.1	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Chemistry 2	SLA.08.F.DOB.2	4
2.	Probability theory and mathematical statistics 2	SLA.09.F.DOB.2	3
3.	Computer assisted graphics	SLA.10.F.DOB.2	3
4.	Physics	SLA.11.F.DOB.2	4
5.	Analytical chemistry and instrumental analysis	SLA.12.S.DOB.2	5
6.	Cell biology	SLA.13.S.DOB.2	4
7.	Physical education and sport	SLA.14.C.DOB.2	2
8.	Practice	SLA.15.S.DOB.2	3
9.	English Language	SLA.18.C.DOB.2	2
	French Language	SLA.19.C.DOP.2	
		TOTAL	**30**

	2ND YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Quantitative genetics	SLA.01.S.DOB.3	5
2.	Technical drawing and infographics	SLA.02.F.DOB.3	3

3.	Ecotoxicology	SLA.03.S.DOB.3	4
4.	Industrial microbiology	SLA.04.S.DOB.3	4
5.	Experimental technique	SLA.05.S.DOB.3	4
6.	Communication	SLA.06.C.DOB.3	2
7.	Physical education and sport	SLA.07.C.DOB.3	2
8.	Pharmaceutical biotechnologies	SLA.15.S.DOP.3	4
	Food biotechnologies	SLA.16.S.DOP.3	
9.	English Language	SLA.17.C.DOP.3	2
	French Language	SLA.18.C.DOP.3	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Cell and tissue cultures	SLA.08.S.DOB.4	4
2.	General Biotechnology	SLA.09.S.DOB.4	4
3.	Molecular biology	SLA.10.S.DOB.4	5
4.	Collecting and preservation of didactic material	SLA.11.S.DOB.4	4
5.	Procedures in testing laboratories	SLA.12.S.DOB.4	5
6.	Physical education and sport	SLA.13.C.DOB.4	2
7.	Practice	SLA.14.S.DOB.4	3
8.	Biodiversity conservation and nature protection	SLA.19.S.DOP.4	3
	Genetics of microorganisms	SLA.20.S.DOP.4	
		TOTAL	**30**

	3RD YEAR **First Semester**		
No.	**Course title**	**Code**	**ECTS**
1.	Genetic engineering	SLA.01.S.DOB.5	4
2.	Laboratory standards	SLA.02.S.DOB.5	5
3.	Biotechnology of protein and enzymes	SLA.03.S.DOB.5	4
4.	Data analysis and exploitation	SLA.04.S.DOB.5	5
5.	Quality control of agro-food products	SLA.05.S.DOB.5	4
6.	Molecular markers	SLA.06.S.DOB.5	4
7.	Extraction and industrial separation processes	SLA.07.S.DOB.5	4
		TOTAL	**30**

Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Biotechnological installations	SLA.08.S.DOB.6	4
2.	Quality management	SLA.09.S.DOB.6	4
3.	Good laboratory practices	SLA.10.S.DOB.6	4
4.	Chromatographic techniques	SLA.11.S.DOB.6	4
5.	Laboratory audit	SLA.12.S.DOB.6	4
6.	Practice	SLA.13.S.DOB.6	3
7.	Virusology	SLA.14.S.DOP.6	3
	Genetically modified organisms	SLA.15.S.DOP.6	
8.	Authenticity, traceability and food safety	SLA.16.S.DOP.6	4
	Genetic fingerprinting	SLA.17.S.DOP.6	
		TOTAL	**30**

	4TH YEAR **First Semester**		
No.	**Course title**	**Code**	**ECTS**
1.	Renewable resources of raw materials	SLA.01.S.DOB.7	5
2.	Biorefinery and bioenergy	SLA.02.S.DOB.7	5
3.	Spectrometric analysis methods	SLA.03.S.DOB.7	4
4.	Registration of crops and certification of seeds	SLA.04.S.DOB.7	5
5.	Marketing	SLA.05.C.DOB.7	3
6.	Ethics and academic integrity	SLA.06.C.DOB.7	2
7.	Risks in biotechnology	SLA.13.S.DOP.7	3
	Biohazard	SLA.14.S.DOP.7	
8.	Environmental legislation	SLA.15.C.DOP.7	3
	Career counseling and guidance	SLA.16.C.DOP.7	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Consumer protection assurance	SLA.07.S.DOB.8	4
2.	Project management	SLA.08.S.DOB.8	4
3.	Bioinformatics	SLA.09.S.DOB.8	5
4.	The impact of climate change	SLA.10.S.DOB.8	5
5.	Methods of scientific research	SLA.11.S.DOB.8	4

6.	Developing the graduation project	SLA.12.S.DOB.8	6
7.	English language	SLA.17.C.DOP.8	2
	French language	SLA.18.C.DOP.8	
		TOTAL	**30**

Specialization: Master's Degree Programme: **Plant Breeding and Seed Production in cultivated plants**
EQF LEVEL: 7
Field of study: **Biotechnologies**
Duration: 2 years, 120 ECTS
Full-time learning
Language of teaching: Romanian



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	1ST YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Scientific basis of plant breeding and seed production	APS.01.DF.DOB.1	7
2.	Improvement strategy for agricultural and horticultural species by conventional and biotechnological methods	APS.02.DF.DOB.1	7
3.	Applications of quantitative genetics in plant improvement	APS.03.DS.DOB.1	8
4.	Methodology of seed and planting material production in agricultural and horticultural species	APS.04.DF.DOB.1	8
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Improvement strategy for agricultural and horticultural species by conventional and biotechnological methods	APS.05.DF.DOB.2	7
2.	Physiological aspects in the production and conservation of seeds in cultivated plants	APS.06.DS.DOB.2	6
3.	Tissue cultures and biotechnological applications	APS.07.DS.DOB.2	6
4.	Molecular markers	APS.08.DS.DOB.2	5
5.	Statistical methods used to evaluate cultivars at phenotypic and molecular level	APS.09.DS.DOP.2	6
	Methods for evaluating genotype-environment interaction	APS.10.DS.DOP.2	
		TOTAL	**30**

	2ND YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Regulations on seed and planting material production	APS.01.DS.DOB.3	7
2.	Applications of genetic biotechnologies in plant breeding and seed production	APS.02.DS.DOB.3	7
3.	Technology of seed production in agricultural and horticultural species	APS.03.DS.DOB.3	9
4.	Academic ethics and integrity	APS.04.DC.DOB.3	3
5	Analysis of the qualitative potential of germplasm	APS.07.DS.DOP.3	4

	Analysis of the nutraceutical value of cultivars	APS.08.DS.DOP.3	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Practice	APS.05.DS.DOB.4	25
2.	Practical training for the completion of the dissertation	APS.06.DS.DOB.4	5
		TOTAL	**30**

Specialization: Master's Degree Programme: **PHITO-PHARMACEUTICAL BIOTECHNOLOGIES**
EQF LEVEL: 7
Field of study: **Biotechnologies**
Duration: 2 years, 120 ECTS
Full-time learning
Language of teaching: Romanian



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	1ST YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Pharmaceutical botany	BFF.01.DF.DOB.1	7
2.	Plant and crop physiology with bioactive potential	BFF.02.DF.DOB.1	5
3.	Biosynthesis of phytopharmaceutical products	BFF.03.DF.DOB.1	6
4.	Primary and secondary metabolites	BFF.04.DS.DOB.1	6
5.	Industrial phytopharmaceutical biotechnologies	BFF.05.DS.DOB.1	6
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Molecular biology applied in the pharmaceutical industry	BFF.06.DS.DOB.2	6
2.	Tissue cultures and biotechnological applications	BFF.07.DS.DOB.2	7
3.	Applications of genetic engineering in the phytopharmaceutical industry	BFF.08.DS.DOB.2	7
4.	Industrial extraction and separation processes	BFF.09.DS.DOB.2	6
5.	Biostatistics	BFF.10.DC.DOP.2	4
	Bioinformatics	BFF.11.DC.DOP.2	
		TOTAL	**30**

	2nd YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Pharmacology and toxicology	BFF.01.DF.DOB.3	7
2.	Qualitative and pharmacological analysis of biologically active principles	BFF.02.DS.DOB.3	6
3.	Laboratory Quality Management and Good Laboratory Practice (GLP) Standards	BFF.03.DS.DOB.3	7
4.	Advanced technologies for obtaining biologically active molecules	BFF.04.DS.DOB.3	4
5.	Ethics and integrity	BFF.05.DC.DOB.3	2
6.	Biotechologies in the cosmetics industry	BFF.08.DS.DOP.3	4

	Use and conservation of genetic resources of plants with phytopharmaceutical potential	BFF.09.DS.DOP.3	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Practice	BFF.06.DS.DOB.4	25
2.	Practical training for the completion of the dissertation	BFF.07.DS.DOB.4	5
		TOTAL	**30**

Specialization: Master's Degree Programme: **QUALITY OF VITICULTURAL PRODUCTS AND WINE BY PRODUCTS**
EQF LEVEL: 7
Field of study: **HORTICULTURE**
Duration: 2 years, 120 ECTS
Full-time learning
Language of teaching: Romanian



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	1ST YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Differentiated technologies for the cultivation of grapevine in Romania and the EU	CPV.01.DS.DOB.1	8
2.	Varieties, biotypes and cultivars	CPV.02.DF.DOB.1	8
3.	Analysis of wine and vini/viticultural products	CPV.03.DS.DOB.1	7
4.	Production of high quality grapevine plant material	CPV.04.DS.DOB.1	7
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Differentiated technologies for the cultivation of grapevine in Romania and the EU	CPV.05.DS.DOB.2	8
2.	Varieties, biotypes and cultivars	CPV.06.DF.DOB.2	8
3.	Special techniques to obtain different types of wines	CPV.07.DS.DOB.2	7
4.	Control and prevention of fraud in viticulture and vinification	CPV.08.DS.DOB.2	7
		TOTAL	**30**

	2nd YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Soil as nutrition environment and modern principles of fertilization	CPV.01.DF.DOB.3	9
2.	Residue and remanence of pesticides in the soil and wine products	CPV.02.DS.DOB.3	5
3.	Ecological inputs used in horticulture	CPV.03.DS.DOB.3	4
4.	Academic ethics and integrity	CPV.04.DC.DOB.3	3
5.	Non-polluting agri-technical methods in viticulture	CPV.07.DS.DOP.3	9
	Optimizing inputs in viticulture	CPV.08.DS.DOP.3	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Practice	CPV.05.DS.DOB.4	25
2.	Practical training for the completion of the dissertation	CPV.06.DS.DOB.4	5
		TOTAL	**30**

Specialization: Master's Degree Programme: **WINE PROCESSING, STORAGE AND TASTING**
EQF LEVEL: 7
Field of study: **HORTICULTURE**
Duration: 2 years, 120 ECTS
Full-time learning
Language of teaching: French language



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	1ST YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Terroir and wine quality	CPDV.01.DS.DOB.1	8
2.	Input influence on wine quality	CPDV.02.DS.DOB.1	7
3.	Vinifera cultivars and wine quality	CPDV.03.DF.DOB.1	7
4.	Wine technologies	CPDV.04.DS.DOB.1	8
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Terroir and wine quality	CPDV.05.DS.DOB.2	8
2.	Vinifera cultivars and wine quality	CPDV.06.DF.DOB.2	7
3.	Wine microbiology	CPDV.07.DF.DOB.2	7
4.	Wine technologies	CPDV.08.DS.DOB.2	8
		TOTAL	**30**

	2nd YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Wine and gastronomy	CPDV.01.DS.DOB.3	7
2.	Wine tasting	CPDV.02.DS.DOB.3	7
3.	Wine marketing	CPDV.03.DF.DOB.3	6
4.	Academic ethics and integrity	CPDV.04.DC.DOB.3	3
5.	Wine conditioning, storage, and bottling	CPDV.07.DS.DOP.3	7
	Sparkling wine technology	CPDV.08.DS.DOP.3	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Practice	CPDV.05.DS.DOB.4	25
2.	Practical training for the completion of the dissertation	CPDV.06.DS.DOB.4	5
		TOTAL	**30**

Specialization: Master's Degree Programme: **URBAN ECODESIGN**
EQF LEVEL: 7
Field of study: **HORTICULTURE**
Duration: 2 years, 120 ECTS
Full-time learning
Language of teaching: Romanian



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	1ST YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Digital and graphing techniques	EDU.01.DS.DOB.1	9
2.	Urban floricultural ecotechnologies	EDU.02.DF.DOB.1	6
3.	Urban green space design	EDU.03.DS.DOB.1	6
4.	Green cadastre	EDU.04.DS.DOB.1	9
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Urban territory planning	EDU.05.DS.DOB.2	6
2.	Production and association of ornamental woody species	EDU.06.DF.DOB.2	6
3.	Urban fruit tree ecotechnologies	EDU.07.DF.DOB.2	6
4.	The impact of climate change on urban vegetation	EDU.08.DF.DOB.2	6
5.	Analysis of urban green space systems	EDU.09.DS.DOB.2	6
		TOTAL	**30**

	2nd YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Urban vegetable ecotechnologies	EDU.01.DF.DOB.3	5
2.	European policies and strategies	EDU.02.DC.DOB.3	4
3.	Geographic information systems in landscaping	EDU.03.DS.DOB.3	5
4.	Management of sustainable rural development	EDU.04.DC.DOB.3	5
5.	Academic ethics and integrity	EDU.05.DC.DOB.3	3
6.	Ecological inputs used in horticulture	EDU.06.DS.DOB.3	4
7.	Plant cultivation systems in urban space	EDU.09.DS.DOP.3	4
	Integrated protection of ornamental plants	EDU.10.DS.DOP.3	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Practice	EDU.07.DS.DOB.4	25
2.	Practical training for the completion of the dissertation	EDU.08.DS.DOB.4	5
		TOTAL	**30**

Specialization: Master's Degree Programme: **SAFETY AND QUALITY OF PRIMARY HORTICULTURAL PRODUCTS**
EQF LEVEL: 7
Field of study: **HORTICULTURE**
Duration: 2 years, 120 ECTS
Full-time learning
Language of teaching: Romanian



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	1ST YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Microbiological security of horticultural products	SCH.01.DF.DOB.1	8
2.	Physiology of forming and maintaining the horticultural production	SCH.02.DF.DOB.1	8
3.	Use of synthesis substances in the control of maturation and storage processes	SCH.03.DS.DOB.1	8
4.	Modern horticultural technologies	SCH.04.DS.DOB.1	6
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Microbiological security of horticultural products	SCH.05.DF.DOB.2	7
2.	Physiology of forming and maintaining the horticultural production	SCH.06.DF.DOB.2	8
3.	Research and statistical analysis techniques	SCH.07.DS.DOB.2	8
4.	Molecular detection and quantification of microorganisms, toxins and genetically modified organisms in horticultural products	SCH.08.DS.DOP.02	7
	Application of molecular markers in the improvement of horticultural crops	SCH.09.DS.DOP.2	
		TOTAL	**30**

	2nd YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Quality of primary horticultural products	SCH.01.DS.DOB.3	8
2.	Application of selection for improving the nutritious properties of horticultural products	SCH.02.DS.DOB.3	8
3.	Contaminants in horticultural products	SCH.03.DS.DOB.3	7
4.	Organic inputs used in horticulture	SCH.04.DS.DOB.3	4
5.	Academic ethics and integrity	SCH.05.DC.DOB.03	3
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Practice	SCH.06.DS.DOB.4	25
2.	Practical training for the completion of the dissertation	SCH.07.DS.DOB.4	5
		TOTAL	**30**

Specialization: Master's Degree Programme: **TECHNOLOGIES IN ECOBIOLOGICAL HORTICULTULAR SYSTEM**
EQF LEVEL: 7
Field of study: **HORTICULTURE**
Duration: 2 years, 120 ECTS
Full-time learning
Language of teaching: Romanian



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	1ST YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Advanced systems in vegetable growing	TSEH.01.DF.DOB.1	8
2.	Advanced systems in fruit growing	TSEH.02.DF.DOB.1	7
3.	Advanced systems in viticulture	TSEH.03.DF.DOB.1	8
4.	Advanced systems in floriculture	TSEH.04.DF.DOB.1	7
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Organic vegetable growing	TSEH.05.DS.DOB.2	7
2.	Organic fruit growing	TSEH.06.DS.DOB.2	8
3.	Organic viticulture	TSEH.07.DS.DOB.2	7
4.	Organic floriculture	TSEH.08.DS.DOB.2	8
		TOTAL	**30**

	2nd YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Modern methods for the conservation of ecological horticultural products	TSEH.01.DS.DOB.3	9
2.	Modern methods of tree planting material production	TSEH.02.DS.DOB.3	9
3.	Ecological inputs used in horticulture	TSEH.03.DS.DOB.3	4
4.	Academic ethics and integrity	TSEH.04.DC.DOB.3	3
5.	Unconventional methods of protecting horticultural crops	TSEH.07.DS.DOP.3	5
	Conventional methods of protecting horticultural crops	TSEH.08.DS.DOP.3	
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Practice	TSEH.05.DS.DOB.4	25
2.	Practical training for the completion of the dissertation	TSEH.06.DS.DOB.4	5
		TOTAL	**30**

Specialization: Master's Degree Programme: **FOREST ECOSYSTEM DIVERSITY**
EQF LEVEL: 7
Field of study: **FORESTRY**
Duration: 2 years, 120 ECTS
Full-time learning
Language of teaching: Romanian



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	1ST YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Conservation of the genetic fund and biodiversity	DEF.01.DF.DOB.1	5
2.	Geographic Information Systems in Forestry	DEF.02.DS.DOB.1	8
3.	Modelling mechanisms based on biochemical interaction	DEF.03.DF.DOB.1	4
4.	Ecoproductive technologies in logging activities	DEF.04.DS.DOB.1	5
5.	Typology of forest ecosystems	DEF.05.DF.DOB.1	8
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Protected natural areas	DEF.06.DS.DOB.2	8
2.	Forest stand dynamics	DEF.07.DS.DOB.2	7
3.	The fauna in forest ecosystems	DEF.08.DS.DOB.2	8
4.	Ecological genetics	DEF.09.DF.DOB.2	4
5.	Forest certification	DEF.10.DS.DOP.2	3
	The impact of pollution on forests	DEF.11.DS.DOP.2	
		TOTAL	**30**

	2nd YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Forest and climate change	DEF.01.DS.DOB.3	7
2.	Diversity of entomofauna	DEF.02.DS.DOB.3	7
3.	Statistical-mathematical modelling	DEF.03.DF.DOB.3	5
4.	Academic ethics and integrity	DEF.04.DC.DOB.3	3
5.	Fire risk assessment	DEF.05.DS.DOB.3	4
6.	Importance of allochthonous forest species	DEF.06.DS.DOB.3	4
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Practice	DEF.07.DS.DOB.4	25
2.	Practical training for the completion of the dissertation	DEF.08.DS.DOB.4	5
		TOTAL	**30**

Specialization: Master's Degree Programme: **FOREST MANAGEMENT**
EQF LEVEL: 7
Field of study: **FORESTRY**
Duration: 2 years, 120 ECTS
Full-time learning
Language of teaching: Romanian



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	1ST YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Ecological reconstruction	MF.01.DS.DOB.1	7
2.	Climate change and forest ecophysiology	MF.02.DF.DOB.1	8
3.	Unconventional systems for obtaining and propagating planting material	MF.03.DF.DOB.1	5
4.	Typology of forest ecosystems	MF.04.DF.DOB.1	5
5.	Integral valorization of forest products	MF.05.DS.DOB.1	5
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Forest cadaster topics	MF.06.DS.DOB.2	5
2.	Integrated management of forest harming insects	MF.07.DS.DOB.2	8
3.	European forest policies and strategies	MF.08.DS.DOB.2	7
4.	Geographic information systems in forestry	MF.09.DS.DOB.2	5
5.	Environmental assessments in forestry	MF.10.DS.DOP.2	5
	Impact of human activities in forestry	MF.11.DS.DOP.2	
		TOTAL	**30**

	2nd YEAR First Semester		
No.	**Course title**	**Code**	**ECTS**
1.	Certification of the forest management system	MF.01.DS.DOB.3	6
2.	Academic ethics and integrity	MF.02.DC.DOB.3	3
3.	Management of sustainable rural development	MF.03.DS.DOB.3	4
4.	Management of the hunting and salmonid fund	MF.04.DS.DOB.3	6
5.	Forest products marketing	MF.05.DS.DOB.3	5
6.	Agri-forest systems	MF.06.DS.DOB.3	6
		TOTAL	**30**
Second Semester			
No.	**Course title**	**Code**	**ECTS**
1.	Practice		25
2.	Practical training for the completion of the dissertation		5
		TOTAL	**30**

FACULTY OF HORTICULTURE, FORESTRY AND PLANT BIOTECHNOLOGIES

Contact us

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