

MASTER OF SCIENCE IN HORTICULTURE

Detailed programme description

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FACULTY OF HORTICULTURAL SCIENCE

HISTORY

This is one of the oldest high schools specialised for horticultural training in Europe. It had been established in 1853 by Dr. Ferenc Entz, a medical doctor. The School for Practical Gardening became famous, enjoyed the support of the government and in 1894 it was raised to the rank of Royal School of Horticulture, with three years of training. Since the 19th century, the level of training at the institution has been continuously developing, along with its structure and name.

EDUCATIONAL PROFILE

The aim of the education is to provide excellent skills in each branches of sustainable horticulture, based on up-to-date knowledge in natural sciences. The graduating students are specialists, familiar with the foreign and Hungarian horticulture, their latest scientific results and practical skills. A special role is given to the ecological approaches, quality aspects and integrated technologies.

We have a unique department structure with focus on special horticultural areas.

Departments:

- Department Biometrics and Agricultural Informatics
- Department of Botany
- Department of Ecological and Sustainable Production Systems
- Department of Entomology
- Department of Floriculture and Dendrology
- Department of Horticultural Economics
- Department of Genetics and Plant Breeding
- Department of Medicinal and Aromatic Plants
- Department of Plant Physiology and Plant Biochemistry
- Department of Plant Pathology
- Department of Pomology
- Department of Soil Science and Water Management
- Department of Vegetable and Mushroom Growing
- Technical Department
- Institute of Viticulture and Oenology
 - Department of Oenology
 - Department of Viticulture

Research activities at the faculty are carried out in co-operation with Hungarian and foreign partners in the following main topics:

- Genetic and chemical diversity of important horticultural species, reservation and utilization of valuable genotypes;
- Development and maintenance of biological resources, evaluation of cultivars, molecular technologies supporting breeding and varieties rights;
- Studies on plant characteristics determining biotic and abiotic resistance, their markers, detection of the protection mechanisms in tolerant genotypes, development of resistant cultivars;
- Study of the Hungarian ecological potential, modelling climatic changes, effects for the horticulture, methods for overcoming them, optimalization of ecological factors, ecosystem and nature protection;
- Development of sustainable and ecological technologies in horticultural protection, post- harvest methods, quality assurance, quality control of horticultural products;
- Biologically effective constituents of plants and horticultural products, their role in human nutrition and methods for increasing their accumulation

MASTER STUDY OFFER IN ENGLISH

MSC IN HORTICULTURE

A full degree programme (4 semesters, 120 credits) (with offer of multiple degree)

Horticulture is the most dynamic and colourful sector of agriculture. The tasks of horticultural engineers have been broadening and consist not only of cultivation and primary processing of plants but also includes management, consulting, organizing activity, quality assurance, marketing and services. After graduation, students will be able organising and leading the production and marketing of horticultural enterprises of different size and character, carry out the tasks of managers, counsellors, engineers, take part in research and education.

To fulfil these requirements, the master programme offers knowledge in horticultural and natural sciences, interdisciplinary aspects, an up-to-date basic knowledge and practical skills. Beside the special horticultural modules (ornamentals, fruits, medicinal plants, vegetables, grape and wine), the study programme includes genetics, physiology, ecology, biometrics and related subjects.

During the study, the students have theoretical lectures, laboratory and farm practices, field visits. There is a quite large freedom of the students in choosing courses according to the personal interest. During preparation of the thesis, they learn experimental design, research skills and biometrical data analysis, thus, a possible PhD study is also grounded. The study courses are completed by a 4 weeks' farm practice period.

The programme offers courses in the topics of breeding and biotechnology, plant and soil biochemistry, crop management, economics, crop ecophysiology and additional subjects. The curriculum consists of lectures, laboratory and farm practices. Students may choose a thesis topic – after the first semester – connected to one of the 5 horticultural sectors (fruits, vegetables, medicinal plants, ornamentals and viticulture) or their interdisciplinary aspects. The thesis work is based on individual research work and have to be defended at the end of the 4th semester.

According to the Joint Degree agreement, the students of this programme – when fulfilling the requirements of partial foreign education – may get the master degree also of the partner universities (TUM – Munich, BOKU – Vienna, UNIBO – Bologna, Humboldt – Berlin, Free University of Bolzano – Bozen, Institute Supérieur des Sciences agronomiques, agroalimentaries, France, Centre International d'études Superieures en Sciences , France)

Requirements:

- academic BSc/MSc or equivalent degree in agricultural/life or related sciences,
- English language (reading, writing, speaking, listening) knowledge.

Candidates are expected to have basic knowledge (demonstrated by the transcript) in life sciences, natural resources, agriculture, economics. Based on the credits of the applicants obtained in former graduation, additional maximum 24 credits from missing disciplines may be required during the study.

Candidates from countries where English is not the language of instruction need to have an internationally accepted English exam: TOEFL iBT min. 65, PBT 500, CBT 200 or IELTS at least a score of 5,5 or Cambridge CAE Certificate). These can be replaced by documentation of at least 2 years closed higher education study in an English programme.

Each application will be evaluated by the Credit Transfer Committee. The Credit Transfer Committee forms its decision in 30 days after receiving the necessary documents, but at latest till the 31St of May. The process is free of charge.

Tuition fee: EUR 1800 / semester (2 semesters must be paid in advance)

It includes the expenses of education and practices, using libraries, computers and internet at the Faculty rooms; all the advantages of a Student Card. The tuition fee does not include local travel, board, insurance and accommodation.

The application procedure is 100 EURO (non refundable but deduced from 2nd year's fee).

Milestones of the study

Semesters: Mid September – Mid December Exams: Mid December – End January Firm practice: 4 weeks after the 2nd semester

Final exam: June of second year

Application package includes:

- application form
- diploma of previous studies (official English translation)
- detailed demonstration of former studies

(English diploma supplement or official English copy of learning documents demonstrating the obtained credits and skills)

- motivation letter in English;
- copy of passport with photo;
- documents demonstrating English skills.

Schedules of the selection procedure (the up-to date schedules will be announced in the website):

- Deadline for sending the application package: 30 April each year
- Notification on admission/rejection/sending of the Contract for Tuition (e-mail): End of April
- Deadline for sending back the Contract for Tuition and Payment of fee for the first 2 semester: End of May
- Confirmation of the registration and possible start of visa application: Early July
- Start of courses: beginning of September

FACULTY OF HORTICULTURAL SCIENCE

Documents should be posted to the following address:

Corvinus University of Budapest Faculty of Horticultural Sciences Dean's Office

H-1518 Budapest P.O. Box 53. Hungary

Further information: zsuzsa.kothencz@uni-corvinus.hu

Application form, up-to date information on the programme are found at our website: http://hort.uni-corvinus.hu

SAMPLE CURRICULUM AND COMPULSORY SUBJECTS

Course							
CODE	TITLE	INSTRUCTOR	CONTACT HOURS/ WEEK	CREDIT	REQUIREMENT		
Fall Semester (Num	ber 1)						
3SZ22NAK12M	Biological and fitotechnical resources of viticulture	Tamás Deák	2+1	4	Exam		
3ME13NAK37M	Up-to date technologies of medicinal plant production	Zsuzsanna Pluhár	2+1	4	Exam		
3MN24NAK06M	Plant physiology and plant molecular biology	István Papp	2+1	3	Exam		
3NT20NAK08M	Geobotany and plant ecology	Mária Höhn	2+1	3	Exam		
3GN18NAK06M	Molecular genetics and gene technology of plants	Attila Hegedüs	2+1	3	Exam		
3ZT14NAK40M	Forcing in soilless systems	Katalin Slezák	2+1	4	Exam		
3DD02NBK73S 3ME13NBK38S 3GY15NBK45S 3SZ22NBK33S 3ZT14NBK42S	Thesis preparation (I) at Specialized classes of floriculture Spec. in medicinal plant production Specialization in Fruit Growing Spec. in Viticulture and Enology Specialization in Vegetable Growing	Péter Honfi Szilvia Sárosi Magdolna Tóth Gábor Zanathy Katalin Ertsey-Peregi	0+4	6	Term mark		
Compulsory courses	s together:		12+10	27	6E1TM		
Compulsory choice	courses:		2+1	3	Exam/Term mark		
ALTOGETHER:			14+11	30	7E1TM		
Spring Semester (N	umber 2)						
3GY15NBV26M	Up-to date methods in fruit growing	László Szalay	2+1	4	Exam		
3MIO9NAK13M	Horticultural information systems	Márta Gaál	1+2	3	Exam		
3ZT14NAK41M	Biology and cultivation of fungi	András Geösel	2+1	4	Exam		
3DD02NAK10M	Propagation biology of plants	Károly Hrotkó	2+1	3	Exam		
3ME13NBV22M	Special plant compounds in nutrition and therapy	Szilvia Sárosi	2+1	4	Exam		
3DD02NBK32S 3ME13NBK28S 3GY15NBK32S 3SZ22NBK20S 3ZT14NBK26S	Thesis preparation (II) at Specialized classes of floriculture Spec. in medicinal plant production Specialization in Fruit Growing Spec. in Viticulture and Enology Specialization in Vegetable Growing	Péter Honfi Szilvia Sárosi Magdolna Tóth Gábor Zanathy Zoltán Papp	0+4	6	Term mark		
Compulsory courses together:			9+10	24	5E1TM		
Compulsory choice	courses:		2+1	4	Exam/Term mark		
Free choice courses	:		2+1	2	Exam/Term mark		
ALTOGETHER:			13+12	30	7E1TM		

The content of the	Course							
Sample S	CODE	TITLE	INSTRUCTOR		CREDIT	REQUIREMENT		
Sey15NAK19M	Fall Semester (Nun	nber 3)						
MMT17NAK18M Special technical knowledge Zoltán Láng 1+2 3 Exam	3NKO6NAKO3M	Biological bases of plant pathology	László Palkovics	2+1	3	Exam		
SRTIOTNAKO4M Biological bases of entomology Béla Pénzes 2+1 3 Exam	3GY15NAK19M	Evaluation of fruit cultivars	Magdolna Tóth	2+1	4	Exam		
SMICIONAK15M Decision support systems of extension service Márta Gaál 1+1 3 Exam	3MT17NAK18M	Special technical knowledge	Zoltán Láng	1+2	3	Exam		
SME13NAKO8M Production ecosystems and forms of their regulation Jenő Bernáth 2+1 3 Exam	3RT07NAK04M	Biological bases of entomology	Béla Pénzes	2+1	3	Exam		
BT33NAK01M Winemaking	3MIO9NAK15M	Decision support systems of extension service	Márta Gaál	1+1	3	Exam		
Thesis preparation (III) at Specialized classes of floriculture Péter Honfi SDD02NBK47S Specialized classes of floriculture Péter Honfi SZIVia Sárosi SGY15NBK37S Specialization in Fruit Growing Magdolna Toth SZIVia Sárosi SGY15NBK37S Specialization in Fruit Growing Magdolna Toth SZIVia Sárosi SGY15NBK37S Specialization in Vegetable Growing Noémi Kappel Compulsory courses together: 12+12 29 7E1TM Free choice courses: 2+1 2+1 2 Exam/Term mark ALTOGETHER: 14+13 31 BE1TM Spring Semester (Number 4) Spring Semester (Number 4) Spring Semester (Number 4) SMM11NAK29M Agrarian law and law in economic life Zoltán Kator 3+0 3 Exam 3MM11NAK29M Agromanagement Gábor Gyarmati 3+0 3 Exam 3MM11NAK01M Agromanagement György Végvári 3+0 2 Exam 3DD02NAK64M Modern systems in production and commerce of Andrea Tillyné Mándy 2+1 4 Exam ornamentals SKT23NAK11M Natural resources and nature protection György Végvári 3+0 3 Exam 3DD02NBK49S Specialization in Fruit Growing Magdolna Toth SZIVia Sárosi 3GY15NBK39S Specialization in Fruit Growing Magdolna Toth SZIVIA SAROSI Specialization in Fruit Growing Magdolna Toth SZIVIA SAROSI Specialization in Vegetable Growing Noémi Kappel Compulsory courses together: 13+7 27 5E1TM Free choice courses: 2+1 2 Exam/Term mark	3ME13NAK08M	Production ecosystems and forms of their regulation	Jenő Bernáth	2+1	3	Exam		
3DD02NBK47S Specialized classes of floriculture Péter Honfi 3ME13NBK33S Spec. in medicinal plant production Szilvia Sárosi 3GY15NBK37S Specialization in Fruit Growing Magdolna Tóth 3SZ22NBK29S Spec. in Viticulture and Enology Gábor Zanathy 3ZT14NBK28S Specialization in Vegetable Growing Noémi Kappel Compulsory courses together: 12+12 29 7E1TM Free choice courses: 2+1 2 2 Exam/Term mark ALTOGETHER: 14+13 31 8E1TM Spring Semester (Number 4) 3MM11NAK29M Agrarian law and law in economic life Zoltán Kator 3+0 3 Exam 3MM11NAK01M Agromanagement Gábor Gyarmati 3+0 3 Exam 3MM11NAK01M History of horticulture and agriculture György Végvári 2+0 2 Exam 3DD02NAK64M Modern systems in production and commerce of ornamentals 3KT23NAK11M Natural resources and nature protection György Végvári 3+0 3 Exam Thesis preparation (IV) at 0+6 12 Term mark 3DD02NBK49S Specializad classes of floriculture Péter Honfi 3ME13NBK30S Specialization in Fruit Growing Magdolna Tóth 3SZ22NBK31S Spec. in Viticulture and Enology Gábor Zanathy 3SZ114NBK30S Specialization in Vegetable Growing Noémi Kappel Compulsory courses together: 13+7 27 5E1TM Free choice courses: 2+1 2 Exam/Term mark	1BT33NAK01M	Winemaking	Ildikó Magyar	2+1	4	Exam		
Free choice courses: 2+1 2 Exam/Term mark	3ME13NBK33S 3GY15NBK37S 3SZ22NBK29S	Specialized classes of floriculture Spec. in medicinal plant production Specialization in Fruit Growing Spec. in Viticulture and Enology	Szilvia Sárosi Magdolna Tóth Gábor Zanathy	0+4	6	Term mark		
Free choice courses: 2+1 2 Exam/Term mark	Compulsory course			12+12	29	7E1TM		
Spring Semester (Number 4) 3MM11NAK29M Agrarian law and law in economic life Zoltán Kator 3+0 3 Exam 3MM11NAK01M Agromanagement Gábor Gyarmati 3+0 3 Exam 3GY15NAK18M History of horticulture and agriculture György Végvári 2+0 2 Exam 3DD02NAK64M Modern systems in production and commerce of ornamentals 3KT23NAK11M Natural resources and nature protection György Végvári 3+0 3 Exam Thesis preparation (IV) at 0+6 12 Term mark 3DD02NBK49S Specialized classes of floriculture Péter Honfi 3ME13NBK35S Spec. in medicinal plant production Szilvia Sárosi 3GY15NBK39S Specialization in Fruit Growing Magdolna Tóth 3SZ22NBK31S Spec. in Viticulture and Enology Gábor Zanathy 3ZT14NBK30S Specialization in Vegetable Growing Noémi Kappel Compulsory courses together: 13+7 27 5E1TM Free choice courses: 2+1 2 Exam/Term mark		•		2+1	2	•		
3MM11NAK29M Agrarian law and law in economic life Zoltán Kator 3+0 3 Exam 3MM11NAK01M Agromanagement Gábor Gyarmati 3+0 3 Exam 3GY15NAK18M History of horticulture and agriculture György Végvári 2+0 2 Exam 3DD02NAK64M Modern systems in production and commerce of ornamentals 3KT23NAK11M Natural resources and nature protection György Végvári 3+0 3 Exam Thesis preparation (IV) at 0+6 12 Term mark 3DD02NBK49S Specialized classes of floriculture Péter Honfi 3ME13NBK35S Spec. in medicinal plant production Szilvia Sárosi 3GY15NBK39S Specialization in Fruit Growing Magdolna Tóth 3SZ22NBK31S Spec. in Viticulture and Enology Gábor Zanathy 3ZT14NBK30S Specialization in Vegetable Growing Noémi Kappel Compulsory courses together: 13+7 27 5E1TM Free choice courses: 2+1 2 Exam/Term mark	ALTOGETHER:			14+13	31	8E1TM		
3MM11NAK29M Agrarian law and law in economic life Zoltán Kator 3+0 3 Exam 3MM11NAK01M Agromanagement Gábor Gyarmati 3+0 3 Exam 3GY15NAK18M History of horticulture and agriculture György Végvári 2+0 2 Exam 3DD02NAK64M Modern systems in production and commerce of ornamentals 3KT23NAK11M Natural resources and nature protection György Végvári 3+0 3 Exam Thesis preparation (IV) at 0+6 12 Term mark 3DD02NBK49S Specialized classes of floriculture Péter Honfi 3ME13NBK35S Spec. in medicinal plant production Szilvia Sárosi 3GY15NBK39S Specialization in Fruit Growing Magdolna Tóth 3SZ22NBK31S Spec. in Viticulture and Enology Gábor Zanathy 3ZT14NBK30S Specialization in Vegetable Growing Noémi Kappel Compulsory courses together: 13+7 27 5E1TM Free choice courses: 2+1 2 Exam/Term mark								
3MM11NAK01M Agromanagement Gábor Gyarmati 3+0 3 Exam 3GY15NAK18M History of horticulture and agriculture György Végvári 2+0 2 Exam 3DD02NAK64M Modern systems in production and commerce of ornamentals 3KT23NAK11M Natural resources and nature protection György Végvári 3+0 3 Exam Thesis preparation (IV) at 0+6 12 Term mark 3DD02NBK49S Specialized classes of floriculture Péter Honfi 3ME13NBK35S Spec. in medicinal plant production Szilvia Sárosi 3GY15NBK39S Specialization in Fruit Growing Magdolna Tóth 3SZ22NBK31S Spec. in Viticulture and Enology Gábor Zanathy 3ZT14NBK30S Specialization in Vegetable Growing Noémi Kappel Compulsory courses together: 13+7 27 5E1TM Free choice courses: 2+1 2 Exam/Term mark	Spring Semester (M	lumber 4)						
3GY15NAK18M History of horticulture and agriculture György Végvári 2+0 2 Exam 3DD02NAK64M Modern systems in production and commerce of ornamentals 3KT23NAK11M Natural resources and nature protection György Végvári 3+0 3 Exam Thesis preparation (IV) at 0+6 12 Term mark 3DD02NBK49S Specialized classes of floriculture Péter Honfi 3ME13NBK35S Spec. in medicinal plant production Szilvia Sárosi 3GY15NBK39S Specialization in Fruit Growing Magdolna Tóth 3SZ22NBK31S Spec. in Viticulture and Enology Gábor Zanathy 3ZT14NBK30S Specialization in Vegetable Growing Noémi Kappel Compulsory courses together: 13+7 27 5E1TM Free choice courses: 2+1 2 Exam/Term mark	3MM11NAK29M	Agrarian law and law in economic life	Zoltán Kator	3+0	3	Exam		
3DD02NAK64M Modern systems in production and commerce of ornamentals 3KT23NAK11M Natural resources and nature protection György Végvári 3+0 3 Exam Thesis preparation (IV) at 0+6 12 Term mark 3DD02NBK49S Specialized classes of floriculture Péter Honfi 3ME13NBK35S Spec. in medicinal plant production Szilvia Sárosi 3GY15NBK39S Specialization in Fruit Growing Magdolna Tóth 3SZ22NBK31S Spec. in Viticulture and Enology Gábor Zanathy 3ZT14NBK30S Specialization in Vegetable Growing Noémi Kappel Compulsory courses together: 13+7 27 5E1TM Free choice courses: 2+1 2 Exam/Term mark	3MM11NAK01M	Agromanagement	Gábor Gyarmati	3+0	3	Exam		
ornamentals 3KT23NAK11M Natural resources and nature protection György Végvári 3+0 3 Exam Thesis preparation (IV) at 0+6 12 Term mark 3DD02NBK49S Specialized classes of floriculture Péter Honfi 3ME13NBK35S Spec. in medicinal plant production Szilvia Sárosi 3GY15NBK39S Specialization in Fruit Growing Magdolna Tóth 3SZ22NBK31S Spec. in Viticulture and Enology Gábor Zanathy 3ZT14NBK30S Specialization in Vegetable Growing Noémi Kappel Compulsory courses together: 13+7 27 5E1TM Free choice courses: 2+1 2 Exam/Term mark	3GY15NAK18M	History of horticulture and agriculture	György Végvári	2+0	2	Exam		
Thesis preparation (IV) at 0+6 12 Term mark 3DD02NBK49S Specialized classes of floriculture Péter Honfi 3ME13NBK35S Spec. in medicinal plant production Szilvia Sárosi 3GY15NBK39S Specialization in Fruit Growing Magdolna Tóth 3SZ22NBK31S Spec. in Viticulture and Enology Gábor Zanathy 3ZT14NBK30S Specialization in Vegetable Growing Noémi Kappel Compulsory courses together: 13+7 27 5E1TM Free choice courses: 2+1 2 Exam/Term mark	3DD02NAK64M		Andrea Tillyné Mándy	2+1	4	Exam		
3DD02NBK49S Specialized classes of floriculture Péter Honfi 3ME13NBK35S Spec. in medicinal plant production Szilvia Sárosi 3GY15NBK39S Specialization in Fruit Growing Magdolna Tóth 3SZ22NBK31S Spec. in Viticulture and Enology Gábor Zanathy 3ZT14NBK30S Specialization in Vegetable Growing Noémi Kappel Compulsory courses together: 13+7 27 5E1TM Free choice courses: 2+1 2 Exam/Term mark	3KT23NAK11M	Natural resources and nature protection	György Végvári	3+0	3	Exam		
Compulsory courses together: 13+7 27 5E1TM Free choice courses: 2+1 2 Exam/Term mark	3ME13NBK35S 3GY15NBK39S 3SZ22NBK31S	Specialized classes of floriculture Spec. in medicinal plant production Specialization in Fruit Growing Spec. in Viticulture and Enology	Szilvia Sárosi Magdolna Tóth Gábor Zanathy	0+6	12	Term mark		
Free choice courses: 2+1 2 Exam/Term mark	Compulsory course	s together:		13+7	27	5E1TM		
ALTOGETHER: 15+8 29 6E1TM				2+1	2	•		
	ALTOGETHER:			15+8	29	6E1TM		

CHOICE COURSES

SPECIAL PRODUCTION TECHNOLOGIES

At least one course is compulsory during the study. Others can be fullfilled as free choice courses.

CODE	TITLE	INSTRUCTOR	CONTACT HOURS/WEEK	CREDIT	REQUIREMENT	SEMESTER
3DD02NBV27M	Horticultural dendrology	Magdolna Sütöriné Diószegi	2+1	3	Exam	Spring
3GY15NBV25M	Physiology of temperate zone fruit plants	László Szalay	2+1	4	Exam	Fall
3SZ22NBV18M	Quality oriented viticulture, production-development	György Dénes Bisztray	2+1	4	Exam	Spring
3ME13NBV23M	Cultivation of special medicinal plants and spices	Krisztina Szabó	2+1	4	Exam	Fall
3ZT14NBV43M	Production of propagation material of vegetables	Katalin Ertsey-Peregi	2+1	4	Exam	Spring

FACULTY OF HORTICULTURAL SCIENCE

SPECIAL PROFESSIONAL KNOWLEDGE

At least 3 credits are compulsory during the study. Others can be fullfilled as free choice courses.

CODE	TITLE	INSTRUCTOR	CONTACT HOURS/WEEK	CREDIT	REQUIREMENT	SEMESTER
3GN18NAK02M	Applied plant biotechnology and resistance breeding	Andrzej Pedryc	1+1	2	K	Spring
3RT07NAK08M	Biological plant protection	József Fail	1+1	2	K	Spring
3ME13NAK16M	Biologically active substances	Éva Zámboriné Németh	2+1	3	K	Fall
3MI09NCS05M	Experimental design and evaluation	Márta Ladányi	0+2	2	gy.j.	Fall

SPECIALIZATION

Specialized classes of floriculture

Instructor: Dr. Péter Honfi

Specialization in medicinal plant production

Instructor: Dr. Jenő Bernáth Specialization in Fruit Growing Instructor: Dr. Magdolna Tóth

Specialization in Viticulture and Enology

Instructor: Dr. Gábor Zanathy Specialization in Vegetable Growing

Instructor: Dr. István Terbe

DESCRIPTION OF COURSES

The detailed description and requirements of all courses are available at the following website: $\frac{http://horticulturalscience.uni-corvinus.hu/index.}{php?id=49482}$

Please note that all course descriptions are subject to change and It is always the course syllabus handed out in the first class of the given course that is valid for the given semester!

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