



SZENT ISTVÁN
EGYETEM



A. D. 1 8 5 3

KERTÉSZETTUDOMÁNYI KAR, BUDAPEST

**Kertészmérnöki alapképzési szak nappali
munkarendjének 2018/19. tanévtől felmenő rendszerben
hatályos mintatanterve angol nyelvű képzésben**

Hatályba lépés: 2018. augusztus 1

Sample Curriculum for the BSc in Horticultural Engineering Program

Course						
Code	Title	Instructor	Contact hours / week	Field trip (days)	Credits	Requirement

1st (fall) semester (Grade 1)						
3KT23NAK01B	Agrometeorology and Water Management	László Bozó	2+2	1	4	exam
3MI09NAK38B	Applied Informatics	Márta Ladányi	1+2	-	3	term mark
3MT17NAK04B	Biophysics	György Csima	2+1	-	3	exam
3GN18NAK16B	Plant Genetics	Attila Hegedűs	2+1	-	3	exam
1AK40NAK01B	Horticultural Chemistry	Marietta Fodor	3+2	-	6	exam
3NT20NAK22B	Plant Morphology	Lajos Krisztián Benedek	2+2	4	6	exam
1TN55NAK01B	Physical Education	Péter Kovács	0+2			signature
3DH28NAK18B	Bridging Course	vice-dean for educational affairs	2+0			
Compulsory ('A') courses altogether:			14+12	5	25	5E1TM1S
Recommended optional ('C') course (1C): New trends in horticulture			2+0	-	2	exam
ALTOGETHER:			16+12	5	27	6E1TM1S

2nd (spring) semester (Grade 1)						
3MM11NAK86B	Agricultural Economics and Rural Development	Ernő Péter Botos	1+1		3	exam
3MI09NAK05B	Mathematics	András Iltzés	1+2	-	3	exam
3MT17NAK02B	Basic Knowledge in Technique and in Labour Safety	György Csima	2+1	2	3	exam
3MN24NAK30B	Plant Biochemistry and Plant Physiology	Anita Szegő	3+2	-	5	exam
3NT20NAK23B	Plant Systematics and Taxonomy	Mária Höhn	2+2	5	5	exam
3KT23NAK03B	Soil Science and Agrochemistry	Levente Kardos	2+2	3	5	exam
1TN55NAK02B	Physical Education	Péter Kovács	0+2	-		signature
Compulsory ('A') courses altogether:			11+12	10	24	6E1S
Optional ('C') courses (2C):			4+0	-	4	exam
ALTOGETHER:			15+12	10	28	8E1S

Course						
Code	Title	Instructor	Contact hours / week	Field trip (days)	Credits	Requirement

3rd (fall) semester (Grade 2)						
3GY15NAK03B	Woody Plant Nursery	Károly Hrotkó	2+1	2+1 ¹	4	exam
3OG55NAK41B	Soil Management	Péter Pusztai	2+1	1	3	exam
3GY15NAK04B	Fruit Species and Varieties	László Szalay	2+2	3	4	exam
3MT17NAK07B	Horticultural Mechanics	András Jung	2+2	2	5	exam
4MI25NAK01B	Economics	Zoltán István Kator	2+0	-	2	exam
3MN24NAK03B	Plant Biotechnology	Noémi Lukács	2+2	-	3	exam
3OG55NAK07B	Encyclopedia of Crop Production and Animal Husbandry	Izóra Gál	2+2	2+1 ¹	4	exam
3KU50NAK05B	Summer Practice2	Zsuzsanna Pluhár	0+0	3	0	signature
Compulsory ('A') courses altogether:			14+10	13+2¹	25	7E1S
Optional ('C') course (1C):			2+0	-	2	exam
ALTOGETHER:			16+10	13+2¹	27	8E1S

4th (spring) semester (Grade 2)						
3MI09NAK39B	Biometrics	Márta Ladányi	1+2	-	3	exam
3ME13NAK01B	Medicinal Plants and Spices	Zsuzsanna Pluhár	2+2	3+1 ¹	4	exam
3GY15NAK05B	Fruit Production	Gergely Simon	2+2	3+1 ¹	4	exam
3RT07NAK01B	Applied Entomology	Béla Péntzes	2+2	-	3	exam
3DD02NAK01B	Outdoor Cultivation of Ornamental Plants	Magdolna Sütöri-Diószegi	2+2	3+1 ¹	4	exam
3SZ22NAK66B	Viticulture	Borbála Bálo	2+2	3	4	exam
3ZT14NAK02B	Principles of Vegetable Production	Zoltán Pap	2+2	3+1 ¹	4	exam
Compulsory ('A') courses altogether:			13+14	15+4¹	26	7E
Optional ('C') course (1C):			0+2	-	2	exam
ALTOGETHER:			13+16	15+4¹	28	8E

¹ In case of each course, one day out of the first group of field days must be organised at the Experimental Farm of the Faculty. The second group (+... days) is organised throughout the semester at previously set occasions, at inner localities (e.g.: Experimental Farm, Buda Arboretum) specified by the respective Department. Students can choose from and register for the preliminarily fixed dates at the Department.

² This course should be fulfilled for finishing programme. The 3 practical days of the course is held in the Experimental Farm during the summer period prior to the semester at dates specified by the instructor of the course.

Course						
Code	Title	Instructor	Contact hours / week	Field trip (days)	Credits	Requirement

5th (fall) semester (Grade 3)						
3ME13NAK02B	Medicinal Plant Production	Éva Zámboi-Németh	2+2	1	4	exam
3DD02NAK02B	Cultivation of Greenhouse Ornamentals	Péter Honfi	2+2	2	4	exam
3NK06NAK20B	Plant Pathology	László Palkovics	2+2		3	exam
3OG55NAK06B	Organic Farming	Zita Szalai	2+1	1	3	exam
3SZ22NAK67B	Technology of Viticulture and Enology	István Fazekas	2+2	3	4	exam
3ZT14NAK04B	Vegetable Production Technologies	Katalin Slezák	2+2	3	4	exam
	Chosen specialisation I.	instructor from the specialisation	1+2		5	term mark
Compulsory ('A') courses altogether:			13+13	10	27	6E1TM

6th (spring) semester (Grade 3)						
3MM11NAK87B	Horticultural Marketing and Quality Management	Géza Székely	3+0		3	exam
3GN18NAK17B	Plant Breeding and Cultivar Registration System	Attila Hegedűs	4+0	2	3	exam
	Chosen specialisation II.	instructor from the specialisation	0+2	2 ³	5	term mark
3DD02NAK35B	Internship					
3ME13NAK31B	Floriculture and Woody Plant Nursery	Péter Honfi				
3GY15NAK35B	Medicinal Plant Production	Éva Zámboi-Németh				
3SZ22NAK23B	Fruit Growing	László Szalay				
3ZT14NAK30B	Viticulture	György Dénes Bisztray				
3MN24NAK12B	Vegetable Growing	Zoltán Pap				
	Horticultural Biotechnology and Plant Breeding	István Papp				
3MM11NAK60B	Horticultural Business Development	Ernő Péter Botos				
3KT23NAK16B	Environmental Management	Levente Kardos				
3MT17NAK21B	Precision Horticulture Technologies	György Csima				
3OG55NAK29B	Organic Farming and Nature Conservation	Péter Pusztai				
Compulsory ('A') courses altogether:			7+2	4 days +15 weeks	41	2E2TM

³ Field trips of the course must be organised on any Fridays of the semester.

Course						
Code	Title	Instructor	Contact hours / week	Field trip (days)	Credits	Requirement

7th (fall) semester						
3NK06NAK03B	Integrated Pest Management	László Palkovics	3+0	2	5	exam
3MM11NAK08B	Accounting, Finance	Géza Székely	3+0		3	exam
3MM11NAK88B	Farm Management and Economics	Ernő Péter Botos	2+2		4	exam
	Chosen specialisation III.	instructor from the specialisation	0+4		5	term mark
3DD02NAK36B	Thesis preparation					
3ME13NAK32B	Floriculture and Woody Plant Nursery	Péter Honfi				
3GY15NAK36B	Medicinal Plant Production	Éva Zámori-Németh				
3SZ22NAK24B	Fruit Growing	László Szalay				
3ZT14NAK31B	Viticulture	György Dénes Bisztray				
3MN24NAK13B	Vegetable Growing	Anna Szabó				
3MM11NAK61B	Horticultural Biotechnology and Plant Breeding	István Papp				
3KT23NAK27B	Horticultural Business Development	Ernő Péter Botos				
3MT17NAK35B	Environmental Management	Levente Kardos				
3OG55NAK30B	Precision Horticulture Technologies	András Jung				
	Organic Farming and Nature Conservation	Péter Pusztai				
Compulsory ('A') courses altogether:			8+6	2	32	3E2TM

Term period of the 7th semester (including field trips) lasts from the first week of September till the first week of November (9 weeks).

Exam period and thesis preparation: in November (4 weeks).

Final exam period: end of December – beginning of January

Specialisations

Specialisation in Floriculture and Woody Plant Nursery

Responsible instructor: Péter Honfi

Code	Course	Instructor	Contact hours	Field trip (days)	Credits	Recomm. semester
3DD02NBK89S	Specialisation in Floriculture and Woody Plant Nursery I.	Péter Honfi	1+2		5	5
3DD02NBK90S	Specialisation in Floriculture and Woody Plant Nursery II.	Péter Honfi	0+2	2	5	6
3DD02NBK91S	Specialisation in Floriculture and Woody Plant Nursery III.	Péter Honfi	0+4		5	7

Specialisation in Medicinal Plant Production

Responsible instructor: Éva Zámboi-Németh

Code	Course	Instructor	Contact hours	Field trip (days)	Credits	Recomm. semester
3ME13NBK50S	Specialisation in Medicinal Plant Production I.	Éva Zámboi-Németh	1+2		5	5
3ME13NBK51S	Specialisation in Medicinal Plant Production II.	Éva Zámboi-Németh	0+2	2	5	6
3ME13NBK52S	Specialisation in Medicinal Plant Production III.	Éva Zámboi-Németh	0+4		5	7

Specialisation in Fruit Growing

Responsible instructor: László Szalay

Code	Course	Instructor	Contact hours	Field trip (days)	Credits	Recomm. semester
3GY15NBK54S	Specialisation in Fruit Growing I.	László Szalay	1+2		5	5
3GY15NBK55S	Specialisation in Fruit Growing II.	László Szalay	0+2	2	5	6
3GY15NBK56S	Specialisation in Fruit Growing III.	Gergely Simon	0+4		5	7

Specialisation in Viticulture

Responsible instructor: György Dénes Bisztray

Code	Course	Instructor	Contact hours	Field trip (days)	Credits	Recomm. semester
3SZ22NBK56S	Specialisation in Viticulture I.	György Dénes Bisztray	1+2		5	5
3SZ22NBK57S	Specialisation in Viticulture II.	Borbála Bálo	0+2	2	5	6
3SZ22NBK58S	Specialisation in Viticulture III.	György Dénes Bisztray	0+4		5	7

Specialisation in Vegetable Growing
Responsible instructor: Gábor Balázs

Code	Course	Instructor	Contact hours	Field trip (days)	Credits	Recomm. semester
3ZT14NBK68S	Specialisation in Vegetable Growing I.	Gábor Balázs	1+2		5	5
3ZT14NBK69S	Specialisation in Vegetable Growing II.	Anna Szabó	0+2	2	5	6
3ZT14NBK70S	Specialisation in Vegetable Growing III.	András Geösel	0+4		5	7

Specialisation in Horticultural Biotechnology and Plant Breeding
Responsible instructor: István Papp

Code	Course	Instructor	Contact hours	Field trip (days)	Credits	Recomm. semester
3MN24NBK33S	Specialisation in Horticultural Biotechnology and Plant Breeding I.	István Papp	1+2		5	5
3MN24NBK34S	Specialisation in Horticultural Biotechnology and Plant Breeding II.	István Papp	0+2	2	5	6
3MN24NBK35S	Specialisation in Horticultural Biotechnology and Plant Breeding III.	István Papp	0+4		5	7

Specialisation in Horticultural Business Development
Responsible instructor: Ernő Péter Botos

Code	Course	Instructor	Contact hours	Field trip (days)	Credits	Recomm. semester
3MM11NBK01S	Specialisation in Horticultural Business Development I.	Ernő Péter Botos	1+2		5	5
3MM11NBK02S	Specialisation in Horticultural Business Development II.	Ernő Péter Botos	0+2	2	5	6
3MM11NBK03S	Specialisation in Horticultural Business Development III.	Ernő Péter Botos	0+4		5	7

Specialisation in Environmental Management
Responsible instructor: Levente Kardos

Code	Course	Instructor	Contact hours	Field trip (days)	Credits	Recomm. semester
3KT23NBK32S	Specialisation in Environmental management I.	Levente Kardos	1+2		5	5
3KT23NBK33S	Specialisation in Environmental management II.	Levente Kardos	0+2	2	5	6
3KT23NBK34S	Specialisation in Environmental management III.	Levente Kardos	0+4		5	7

Specialisation in Precision Horticulture Technologies

Responsible instructor: András Jung

Code	Course	Instructor	Contact hours	Field trip (days)	Credits	Recomm. semester
3MT17NBK37S	Specialisation in Precision Horticulture Technologies I.	András Jung	1+2		5	5
3MT17NBK38S	Specialisation in Precision Horticulture Technologies II.	György Csima	0+2	2	5	6
3MT17NBK39S	Specialisation in Precision Horticulture Technologies III.	András Jung	0+4		5	7

Specialisation in Organic Farming and Nature Conservation

Responsible instructor: Anna Divéky-Ertsey

Code	Course	Instructor	Contact hours	Field trip (days)	Credits	Recomm. semester
3OG55NAK66S	Specialisation in Organic Farming and Nature Conservation I.	Mária Höhn	1+2		5	5
3OG55NAK67S	Specialisation in Organic Farming and nature Conservation II.	Viktor Papp	0+2	2	5	6
3OG55NAK68S	Specialisation in Organic Farming and Nature Conservation III.	Péter Pusztai	0+4		5	7

Budapest, 2018. január 17.

Dr. Geösel András
mb. oktatási dékánhelyettes

Dr. Pluhár Zsuzsanna
szakfelelős