
BSc in Agricultural Water Management & Environmental Technology Engineering

Name of degree programme: BSc in Agricultural Water Management & Environmental Technology Engineering

Academic level of degree: Bachelors

Qualification obtained: Agricultural Water Management and Environmental Technology Engineer

Duration of degree programme: 7 semesters

Necessary no. credits for degree: 210 credits

Curriculum (beginning in **Autumn** semester) *(For description of courses please click course code)*

Compulsory courses:

	Neptun code of course	Name of course	l e s s o n s / w e e k	s e m i n a r s / w e e k	Laboratory / week	as se ss m e n t t y p e	c r e d i t p o i n t s	seme ster
1	MENB_BÉTM036	Mathematics	2	2	0	v	4	1
2	MENB_BÉTM114	Physics for engineers and fluid dynamics	2	1	0	v	4	1
3	MENB_VKTM033	General and inorganic chemistry	2	2	0	v	4	1
4	MENB_VKTM026	Basics of water management	2	2	0	v	4	1
5	MENB_VKTM063	Regulation of environmental, water and nature protection	2	1	0	v	4	1
6	MENB_VKTM073	Basics of surveying and water management	1	2	0	v	4	1
7	MENB_NTTM014	Basics of horticulture	2	0	0	v	4	1

8	MENB_AVTM052	Occupational safety	2	0	0	v	3	1
9	MENB_AVTM023	Agricultural Economics I.	2	1	0	v	4	2
10		Hydrology of surface and groundwater	2	0	1	v	4	2
11	MENB_AVTM019	Statistics	2	2	0	v	4	2
12		Hidrometeorology	2	2	0	v	4	2
13	MENB_VKTM021	Organic chemistry	2	2	0	v	5	2
14		Basics of hydrobiology and microbiology	1	0	2	v	4	2
15		Soil and agrochemical basics of agricultural water management	2	0	2	v	4	2
16		Site potential utilization and landscaping	2	1	0	v	4	3
17		General mechanical engineering, water engineering	2	1	0	v	4	3
18		The social and natural importance of water	2	1	0	v	4	3
19	MENB_ÁTTM033	General animal husbandry	2	2	0	v	4	3
20	MENB_VKTM003	Biochemistry	2	1	0	v	4	3
21	MENB_ÁTTM042	Fisheries management	2	0	0	v	3	4
22		Water management of soils and irrigation	2	0	1	v	3	4

23		Precision water management	1	2	0	v	4	4
24		Physiology of irrigated crops	2	2	0	v	4	4
25		Irrigation technology	2	2	0	v	6	4
26		Water management information and monitoring	2	1	0	v	4	4
27	MENB_NTTM029	Grassland management	2	2	0	v	4	5
28	MENB_NTTM035	Technological basics of plant protection	2	0	0	v	4	5
29		Water regulation, water policy, water ethics	2	1	0	v	4	5
30		Operating wetlands	1	2	0	v	4	5
31		Ecology of environmental elements	1	2	0	v	3	5
32		Agricultural and food waste management	2	2	0	v	5	5
33		Flood protection and water damage prevention	2	2	0	v	5	7
34		Excess surface water management	1	2	0	v	4	7
35		Renewable energy	1	2	0	v	4	7
36		Environmental management, water and environmental technology	3	2	1	v	8	7
37		Agricultural forestry	1	2	0	v	4	7

Hungarian Language (compulsory)

Nr.	Neptun code of course	Name of course	l e s s o n s / w e e k	se mi na rs / we ek	ass ess me nt typ e*	c r e d i t p o i n t s
1	KGNB_NOKA036	Hungarian Language & Culture 1	0	3	a	0
2	KGNB_NOKA037	Hungarian Language & Culture 2	0	3	a	0

Free optional courses

15 credit points should be obtained from this group of courses.

Nr.	Neptun code of course	Name of course	l e s s o n s / w e e k		sem inar s/ wee k	a s s e s s m e n t t y p e*	c r e d i t p o i n t s
1	MENB_VKTA035	The Origin, Habitat and Conservation of our Arable Weeds	2	1	0	v	4
2	MENB_VKTM016	Botany	2	1	0	v	4
3	MENB_ÁTTM037	Pet breeding	2	1	0	v	4
4	MENB_NTTM046	From organic products to genetic engineering	2	1	0	v	4
5	MENB_ÉTTM051	Healthy nutrition	2	0	0	v	2
6	MENB_ÉTTM004	Chemistry 0	0	1	0	v	2
7	MENB_ÉTTM038	Disaster recovery	1	2	0	v	4

8	MENM_VKTM04 6	Beneficial organizations and the basics of their protection	2	1	0	v	4
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*** type of assessment**

a - evaluation based on student's performance and work during the semester

v - evaluation based on student's exam grade in a 5-grade system:

excellent (5) – good (4) – satisfactory (3) – passed (2) – fail (1)

Programme supervisor: Dr Zoltán Varga PhD

Photo of Programme supervisor:



CV: <https://admissions.sze.hu/images/cv/Varga%20Zolta%CC%81n%20CV%20English.pdf>

Details of thesis and final exams on: https://mek.sze.hu/en_GB/guide-to-writing-theses

Information about admission procedure: <http://admissions.sze.hu/>

Programme mentor: Edina Kálmán