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	lessons / week	seminars / week	Laboratory / week	assessment type	credit points	semester
	MENB_BÉTM036	Mathematics	2	2	0	v	4	1
	MENB_BÉTM114	Physics for engineers and fluid dynamics	2	1	0	v	4	1
	MENB_VKTM033	General and inorganic chemistry	2	2	0	v	4	1
	MENB_VKTM026	Basics of water management	2	2	0	v	4	1
	MENB_VKTM063	Regulation of environmental, water and nature protection	2	1	0	v	4	1
	MENB_VKTM073	Basics of surveying and water management	1	2	0	v	4	1
	MENB_NTTM014	Basics of horticulture	2	0	0	v	4	1

	MENB_AVTM052	Occupational safety	2	0	0	v	3	1
	MENB_AVTM023	Agricultural Economics I.	2	1	0	v	4	2
		Hydrology of surface and groundwater	2	0	1	v	4	2
	MENB_AVTM019	Statistics	2	2	0	v	4	2
		Hidrometeorology	2	2	0	v	4	2
	MENB_VKTM021	Organic chemistry	2	2	0	v	5	2
		Basics of hydrobiology and microbiology	1	0	2	v	4	2
		Soil and agrochemical basics of agricultural water management	2	0	2	v	4	2
		Site potential utilization and landscaping	2	1	0	v	4	3
		General mechanical engineering, water engineering	2	1	0	v	4	3
		The social and natural importance of water	2	1	0	v	4	3
	MENB_ÁTTM033	General animal husbandry	2	2	0	v	4	3
	MENB_VKTM003	Biochemistry	2	1	0	v	4	3
	MENB_ÁTTM042	Fisheries management	2	0	0	v	3	4
		Water management of soils and irrigation	2	0	1	v	3	4

		Precision water management	1	2	0	v	4	4
		Physiology of irrigated crops	2	2	0	v	4	4
		Irrigation technology	2	2	0	v	6	4
		Water management information and monitoring	2	1	0	v	4	4
	MENB_NTTM029	Grassland management	2	2	0	v	4	5
	MENB_NTTM035	Technological basics of plant protection	2	0	0	v	4	5
		Water regulation, water policy, water ethics	2	1	0	v	4	5
		Operating wetlands	1	2	0	v	4	5
		Ecology of environmental elements	1	2	0	v	3	5
		Agricultural and food waste management	2	2	0	v	5	5
		Flood protection and water damage prevention	2	2	0	v	5	7
		Excess surface water management	1	2	0	v	4	7
		Renewable energy	1	2	0	v	4	7
		Environmental management, water and environmental technology	3	2	1	v	8	7
		Agricultural forestry	1	2	0	v	4	7

Hungarian Language (compulsory)

Nr.	Neptun code of course	Name of course	lessons / week	seminars / week	assessment type *	credit points
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	lessons / week		seminars / week	assessment type *	credit points
	MENB_VKTA035	The Origin, Habitat and Conservation of our Arable Weeds	2	1	0	v	4
	MENB_VKTM016	Botany	2	1	0	v	4
	MENB_ÁTTM037	Pet breeding	2	1	0	v	4
	MENB_NTTM046	From organic products to genetic engineering	2	1	0	v	4
	MENB_ÉTTM051	Healthy nutrition	2	0	0	v	2
	MENB_ÉTTM004	Chemistry 0	0	1	0	v	2
	MENB_ÉTTM038	Disaster recovery	1	2	0	v	4
	MENM_VKTM046	Beneficial organizations and the basics of their protection	2	1	0	v	4

*** 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)

Please find details of **thesis** and **final exams** on: https://mek.sze.hu/en_GB/guide-to-writing-theses

Programme supervisor: Dr. Zoltán Varga

CV:
https://admissions.sze.hu/images/angol%20szakok/Varga%20Zolta%CC%81n%20CV%20English.pdf

Information about **admission procedure**: http://admissions.sze.hu/