University of Debrecen **Faculty of Engineering** **Curriculum** **Full-time training**

Environmental Engineering Basic's Program (BSc) - Environmental Technology Specialization

Nr.	Subject group	Subject	Subject code	1st semester félév				2nd semester				3rd semester				4th semester				5th semester				6th semester				7th semester				Prerequisite
				L	P	E	C	L	P	E	C	L	P	E	C	L	P	E	C	L	P	E	C	L	P	E	C	L	P	E	C	
1	Basics of Natural Sciences	Mathematics I.	MK3MAT1A08KX25-EN	4	4	m	8																									
2		Mathematics II.	MK3MAT2A06KX25-EN					2	4	m	6																					Mathematics I.
3		Chemistry I	MK3KEM1K04KX25-EN	2	2	e	4																									
4		Chemistry II	MK3KEM2K06KX25-EN					2	4	e	6																					Chemistry I
5		Chemistry III	MK3KEM3K04KX25-EN									2	2	m	4																	Chemistry II
6		Engineering Physics	MK3MFIZA06KX25-EN	2	2	e	6																									
7		Applied Biology	MK3ALKBK04KX25-EN	2	1	e	4																									
8		Ecology	MK3OKOLS04KX25-EN					2	2	e	4																					
9	Economics and Humanties	Studies of Law and Business	MK3JVISM04KX25-EN									2	2	m	4																	
10		Microeconomics	MK3MIOKM04KX25-EN									1	2	e	4																	
11		Macroeconomics	MK3MAOKM04KX25-EN													1	2	e	4													Microeconomics
12		Fundamentals of Quality- and Engineering Management	MK3MIMMM04KX25-EN													2	2	e	4													
13	Specific Compulsory Subjects	Engineering Informatics	MK3INF1A04KX25-EN	2	2	m	4																									
14		Basics of Engineering	MK3MEISK04KX25-EN	2	2	m	4																									
15		Technical Drawing and Basics of CAD	MK3GEPRG05KX25-EN					2	3	m	5																					Engineering Informatics
16		Materials Engineering	MK3ANISG05KX25-EN																	3	1	e	5									
17		Environmental Operations	MK3KVMVK06KX25-EN									3	3	e	6																	
18		Environmental Energetics	MK3KENGK06KX25-EN													3	2	m	6													Environmental Operations
19		Environmental Law and Administration	MK3KOJGK03KX25-EN																	2	1	m	3									Studies of Law and Business
20		Environment, Health and Safety, Ergonomics (Basics of EHS)	MK3EHSAK04KX25-EN					2	2	m	4																					
21		Radiation Protection and Environmental Radioactivity	MK3SGROK03KX25-EN																	2	1	m	3									Engineering Physics
22		Nature, Landscape and Water Environment Protection	MK3TTVKK04KX25-EN																	2	2	m	4									
23		Environmental Impact Assessment	MK3KAHVK04KX25-EN																	2	2	e	4									
24		Noise and Vibration Control	MK3ZRVDK05KX25-EN													2	3	m	5													
25		Waste Management	MK3HUGKK05KX25-EN									4	1	e	5																	
26		Air Pollution Control	MK3LETVK05KX25-EN									4	1	e	5																	
27		Soil Management I	MK3TAV1K06KX25-EN													4	2	m	6													
28		Soil Management II	MK3TAV2K04KX25-EN																	2	1	e	4									Soil Management I
29		Analytical Methods for Environmental Monitoring I	MK3KMM1K04KX25-EN													2	2	m	4													
30		Analytical Methods for Environmental Monitoring II	MK3KMM2K04KX25-EN																	2	1	m	4									Analytical Methods for Environmental Monitoring I
31		Water Management and Water Quality Protection	MK3VGVM1K06KX25-EN																					4	2	e	6					
32	Field-Specific Subjects	Environmental Economics	MK3KGDTM03KX25-EN																									2	1	e	3	Macroeconomics
33		Environmental Management	MK3KOGZK06K125-EN																					2	3	m	6					
34		Project- and Environmental Management	MK3PKMMM05KX25-EN																									2	2	m	5	Fundamentals of Quality- and Engineering Management
35		Food Production and Land Use	MK3ETTHK06K125-EN																					2	2	e	6					
36		Environmental Geographical Information System I	MK3KTI1A04KX25-EN																					2	2	m	4					
37		Environmental Geographical Information System II	MK3KTI2A04KX25-EN																									0	4	m	4	Environmental Geographical Information System I
38		Complex Environmental Engineering Planning I	MK3KKP1K06KX25-EN																					2	4	m	6					
39		Complex Environmental Engineering Planning II	MK3KKP2K06KX25-EN																									2	4	m	6	Complex Environmental Engineering Planning I.
40	Thesis	Thesis I	MK3SZD1K05KX23-EN																					0	5	m	5					
41		Thesis II	MK3SZD2K10KX23-EN																									0	10	m	10	Thesis I, Complex Environmental Engineering Planning I
42	Optional Subjects*	Optional Subject I																														
43		Optional Subject II									2																					
44		Optional Subject III													2																	
45		Optional Subject IV																	2													
46		Optional Subject V																					2								2	
47		Internship	MK3NSGYK00KX25-EN																					6 weeks								
				L	P	E	C	L	P	E	C	L	P	E	C	L	P	E	C	L	P	E	C	L	P	E	C	L	P	E	C	
		Total number of credits:		14	13	0	30	10	15	0	27	16	11	0	30	14	13	0	31	15	9	0	29	12	18	0	33	6	21	0	30	**Total**
		Number of exams				4				3				5				3				4				3				0		number of exam subjects: 22
		Number of mid-semester grades				3				3				2				4				4				4				4		number of mid-semester grade subjects: 24
		Number of subjects				7				6				7				7				8				7				4		number of subjects: 46
		Number of contact hours		27				25				27				27				24				30				27				number of teaching hours: 187
																																number of optional credits: 10
																																total number of credits: 210

Abbreviations:

L = number of lectures/week

P = number of practical classes/week

E = form of evaluation (mid-semester grade or exam)

S = signature

m = mid-semester grade

e = exam

C = Credit points

Criteria subjects:

Optional subjects:

Optional subjects (Rules and Regulations XIII. Faculty of Engineering 10 § (2)). The minimum number of credits assigned to optional subjects: 10 credits.

The suggested order and credit number of optional subjects in the curriculum is only a recommendation.

Internship

The length of the internship is 6 week after the 6th semester. Students must register for the Internship subject in the 6th semester.

The credit value of the subject is 12 credits, which does not count in the total number of credits required in order to get the degree certificate, as defined in the training and outcome requirements of the programme.