

INFORMATION ON IDENTIFYING OF THE QUALIFICATION

Environmental Engineer

Name of qualification and (if applicable) title conferred: Environmental Engineering

Name and status of awarding institution: Széchenyi István University

Language(s) of instruction/examination: Hungarian

Level of qualification: BA/BSc studies, ISCED5

Official length of program: 7 semesters/terms full time training

INFORMATION ON THE LEVEL OF THE QUALIFICATION

Access requirements

Aim of study:

According to Act CCIV/2011 on National Higher Education and Decree No. 65/2021 (XII.29.) of the Ministry of Innovation and Technology (ITM) the training and qualification requirements published in the official publication of the Minister responsible for Education are as follows: Required number of credit points for the BSc degree: 210 credit points

Main field(s) of study for the qualification:

Training area	Credit	%
Knowledge of Natural Sciences	56	27%
Knowledge of Economic and Human Sciences	12	6%
Technical engineering skills	34	16%
Protection of environmental elements	41	19,5%
Environmental assessment, environmental informatics	22	10%
Environmental management	16	8%
Freely elected courses	14	6,5%
Thesis	15	7%
All of credit:	210	100%

Required professional practice, credit value

Passing the exams, reports assigned in the curriculum, according to the curriculum, completion, handing in and acceptance of the Thesis Consultation (Bachelor Programme).

According to Decree No. 65/2021 (XII.29.) of the Ministry of Innovation and Technology (ITM) the training and qualification requirements published in the official publication of the Minister responsible for Education are as follows:

- Decree No.18/2016. (VIII.5.) of the Ministry of Human Resources (EMMI) in case of student statuses established before 29.12.2021.

- Decree No. 15/2006. (IV.3.) of the Ministry of Education (OM) in case of student statuses established before 01.09.2016.

SZÉCHENYI ISTVÁN EGYETEM
Albert Kázmér Mosonmagyaróvári Kar
Alkalmazott Fenntarthatóság Tanszék
9026 Győr, Egyetem tér 1.
Tel.: 06 96 503 453

Pusztai

The course aims to train environmental engineers specialised in training experts with a wide knowledge in the field of sciences at a bachelor level that know local, regional, national and global environmental problems and the methods of how to treat them. In addition to this, they are able to apply environmentally friendly techniques and technologies. Graduates are not only familiar with but also use up-to-date measuring and IT devices and are equipped with the suitable knowledge regarding social sciences and highly developed communications skills. With knowledge of their special field graduates are capable of solving tasks in an innovative way.

PROGRAM DETAILS / CREDITS (Code of sample curriculum: EKIN_BKE_3)

Type of assessments:

Exam: evaluation is based on the student's taken exam in a 5-grade system (excellent (5) – good (4) – satisfactory (3) – passed (2) – fail (1))

Continued report: evaluation is based on the student's performance and work during the semester

Report at the end of the semester in a 3-grade system: evaluation is based on the student's report at the end of semester in a 3-grade system (excellent completed – completed – not completed)


Compulsory courses

Semester	Code	Name of the course	Credit points	Type of assessment	Weekly lectures/seminars/laboratories
1	GKNB_MSTM007	Introduction to the application of computers	2	Continued report	0 / 2 / 0
1	AJNB_KMTM013	Basics of Environmental Engineering	4	Exam	3 / 0 / 0
1	GKNB_FKTM016	General and Inorganic Chemistry	6	Continued report	2 / 2 / 0
1	GKNB_MSTM001	Mathematics 1	5	Exam	4 / 2 / 0
1	KGNB_NETM042	Economics	4	Exam	1 / 0 / 0
1	GKNB_FKTM009	Fundamentals of Physics for Environmental Engineers	4	Continued report	0 / 2 / 0
1	AJNB_KMTM023	Biology	4	Exam	4 / 0 / 0
2	DKNB_KATM018	Environmental Law Studies	2	Exam	2 / 0 / 0
2	GKNB_FKTM010	Transport Processes for Environmental Engineers	6	Exam	3 / 0 / 0
2	GKNB_FKTM018	Organic Chemistry	2	Exam	2 / 0 / 0
2	AJNB_KMTM024	Engineering Communication Skills	4	Continued report	1 / 2 / 0
2	AJNB_KMTM027	Geology	4	Exam	2 / 1 / 0
2	AJNB_KMTM025	Ecology	4	Exam	2 / 1 / 0
2	GKNB_FKTM017	Analytical Chemistry	5	Continued report	2 / 0 / 2
2	GKNB_MSTM008	Mathematics II	5	Exam	2 / 2 / 0
3	DKNB_KATM017	EU Environmental Law	2	Exam	2 / 0 / 0
3	AJNB_KMTM028	Air Protection	4	Exam	2 / 1 / 0
3	AJNB_KMTM029	Soil Protection	4	Exam	2 / 1 / 0
3	EKNB_KETM029	CAD Applications 1.	4	Continued report	0 / 0 / 3
3	AJNB_KMTM003	Nature Conservation	4	Exam	2 / 0 / 0

3	GKNB_FKTM019	Water, Air and Soil Chemistry	7	Continued report	3 / 1 / 2
3	GKNB_MSTM011	Mathematics III	5	Exam	2 / 2 / 0
4	AJNB_KMTM008	Ecological Fieldwork	2	Continued report	0 / 2 / 0
4	AJNB_KMTM004	Water Protection	4	Exam	2 / 1 / 0
4	AJNB_KMTM006	Environmental Assessment	4	Exam	1 / 1 / 0
4	AJNB_KMTM005	Noise and Vibration Control	4	Exam	2 / 1 / 0
4	GKNB_FKTM011	Radiation Protection	2	Exam	2 / 0 / 0
4	GKNB_FKTM020	Environmental Analysis and Measurements	6	Continued report	0 / 2 / 3
4	KGNB_NETM004	Environmental Economics	4	Exam	2 / 0 / 0
4	GKNB_MSTM009	Business IT tools	2	Continued report	0 / 2 / 0
4	AJNB_KMTM026	Health and Environment	2	Exam	2 / 0 / 0
5	AJNB_KMTM011	Environmental State Evaluation	4	Exam	2 / 0 / 0
5	AJNB_KMTM014	Immission Mapping	6	Continued report	0 / 1 / 3
5	AJNB_KMTM010	Environmental Energetics	6	Exam	2 / 2 / 0
5	AJNB_KMTM012	Environmental Databases	4	Continued report	0 / 2 / 0
5	AJNB_KMTM009	Waste and Resource Management	4	Exam	1 / 1 / 0
5	AJNB_KMTM007	Competency-based Project Management	4	Exam	2 / 0 / 0
6	AJNB_KMTM018	Complex Project	6	Continued report	0 / 1 / 0
6	AJNB_KMTM016	Technological Systems	4	Exam	2 / 1 / 0
6	AJNB_KMTM017	Environmental Safety	6	Exam	3 / 1 / 0
6	AJNB_KMTM015	Material Management	4	Exam	1 / 1 / 0
6	EKNB_KETM032	GIS	4	Exam	0 / 3 / 0
7	AJNB_KMTM099	Thesis Consultation (Bachelor Programme)	15	Continued report	0 / 0 / 0
7	AJNB_KMTM020	Energetics Auditing	4	Exam	2 / 0 / 0
7	AJNB_KMTM019	Environmental Management	4	Exam	2 / 0 / 0
Credit points should be passed in this group till the end of the study programme			196		

Physical education

Code	Name of the course	Credits	Type of assessment	Weekly lectures/seminars/ laboratories
TKNB_TSKM001	Physical Education / Swimming	0	Obtaining a signature	0 / 2 / 0
TKNB_TSKM002	Physical Education / Power	0	Obtaining a signature	0 / 2 / 0
TKNB_TSKM003	Physical Education / Fitness	0	Obtaining a signature	0 / 2 / 0
TKNB_TSKM004	Physical Education / Sport Skills	0	Obtaining a signature	0 / 2 / 0


 SZÉCHENYI ISTVÁN EGYETEM
 Albert Kázmér Mosonmagyaróvári Ka
 Alkalmazott Fenntarthatóság Tanszék
 9026 Győr, Egyetem tér 1.
 Tel.: 06 96 503 453

Free optional subjects

Semester	Code	Name of course	Credits	Type of assesment	Weekly lectures/seminars/ laboratories
	AKNB_SSTM186	Volunteer helper practice	2	Continued report	0 / 1 / 2
	MENB_BÉTM117	Drone pilot exam preparation e-learning course (B)	4	Exam	0 / 0 / 0
	KGNB_VKTM024	Startup enterprise II.	4	Continued report	0 / 2 / 0
	KGNB_VKTM018	Introduction to the Innovation and Research Communication I.	5	Continued report	0 / 0 / 0
	KGNB_VKTM019	Introduction to the Innovation and Research Communication II.	5	Continued report	0 / 0 / 0
	MKNB_DSTA001	Design culture	2	Exam	2 / 0 / 0
	MKNB_DSTM003	Presentation techniques	2	Continued report	0 / 2 / 0
	KGNB_VKTM017	Startup enterprise I.	4	Continued report	0 / 2 / 0
	KGNB_NOKM032	Technical English Language Studies for BSc Engineers	2	Continued report	0 / 2 / 0
	KGNB_NOKM034	Technical German Language Studies for BSc Engineers	2	Continued report	0 / 2 / 0
	AKNB_TPTM026	Global environmental challenges	4	Exam	2 / 0 / 0
	AKNB_TPTM002	Education for sustainability and health	3	Exam	1 / 1 / 0
	KGNB_NETM052	Ecological economics	4	Exam	2 / 0 / 0
	DKNB_KATM031	Business Rights and Industrial Right Protection	2	Exam	2 / 0 / 0
	AKNB_TTTM202	Engineering Capability Development	4	Continued report	0 / 4 / 0
	KGNB_MMTM085	Operations Management	4	Exam	2 / 0 / 0
	EKNB_EETM018	Descriptive Geometry	3	Continued report	0 / 2 / 0
	EKNB_EETM030	Building Energetics	2	Continued report	1 / 1 / 0
	EKNB_KETM052	Geodesy	5	Exam	1 / 2 / 0
	GKNB_FKTM030	Introduction to Nuclear Technology	2	Exam	2 / 0 / 0
	GKNB_MGTM020	Preventative Disaster Management	5	Continued report	2 / 0 / 0
	KGNB_MMTM048	Business Economics	5	Exam	3 / 0 / 0
	GKNB_MGTM005	Fire and Occupational Safety	3	Continued report	2 / 0 / 0
	KGNB_NOKM023	Exchange Course 3.	4	Continued report	0 / 0 / 0
Credit points should be passed in this group till the end of the study programme:			14		

SZÉCHENYI ISTVÁN EGYETEM
 Albert Kázmér Mosonmagyaróvári
 Alkalmazott Fenntarthatóság Tanszék
 9026 Győr, Egyetem tér 1.
 Tel.: 06 96 503 453
Pusztaszer A.

Foreign Language Preparation

Code	Name of course	Credits	Type of assessment	Weekly lectures/seminars/ laboratories
KGNB_NOKM027	ORIGO General C1 Prep Course II.	0	Report at the end of the semester in a 3-grade system	0
KGNB_NOKM026	ORIGO General B2 Prep Course II.	0	Report at the end of the semester in a 3-grade system	0
KGNB_NOKM029	TELC General C1 Prep Course II.	0	Continued report	0
KGNB_NOKM031	English for Tourism Exam Prep Course (C1) II.	0	Continued report	0
KGNB_NOKM030	English for Tourism Exam Prep Course (B2) II.	0	Report at the end of the semester in a 3-grade system	0
KGNB_NOKM028	TELC General B2 Prep Course II.	0	Report at the end of the semester in a 3-grade system	0
KGNB_NOKM012	Economic Professional Language Prep Course I.	0	Report at the end of the semester in a 3-grade system	0
KGNB_NOKM013	Economic Professional Language Prep Course II.	0	Report at the end of the semester in a 3-grade system	0
KGNB_NOKM014	ORIGO General B2 Prep Course I.	0	Report at the end of the semester in a 3-grade system	0
KGNB_NOKM015	ORIGO General C1 Prep Course I.	0	Report at the end of the semester in a 3-grade system	0
KGNB_NOKM016	English for Tourism Exam Prep Course (B2) I.	0	Report at the end of the semester in a 3-grade system	0
KGNB_NOKM017	English for Tourism Exam Prep Course (C1) I.	0	Continued report	0
KGNB_NOKM018	TELC General B2 Prep Course I.	0	Report at the end of the semester in a 3-grade system	0
KGNB_NOKM019	TELC General C1 Prep Course I.	0	Continued report	0

Professional Practice / Internship:

The mandatory internship period of min. 6 weeks has to be absolved outside of university at a suitable professional location.

SZÉCHENYI ISTVÁN EGYETEM
 Albert Kázmér Mosonmagyaróvári
 Alkalmazott Fenntarthatóság Tanszék
 9026 Győr, Egyetem tér 1
 Tel.: 06 96 503 451

Pusztai

