
English-taught BSc in Civil Engineering

Name of degree programme: BSc in Civil Engineering

Academic level of degree: Bachelor

Qualification obtained: Civil Engineer

Duration of degree programme: 8 semesters

Necessary no. credits for degree: 240 credits

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

Compulsory courses:

	Neptun code of course	Name of course	lessons / week	seminars / week	laboratory	assessment type	credit points	semester
1	EKNB_EETA018	Descriptive Geometry	0	2	0	f	3	1
2	EKNB_KETA029	CAD Application 1.	0	0	3	f	4	1
3	EKNB_SETA010	Mechanics of Structures 1	2	3	0	v	6	1
4	EKNB_SETA031	Introduction to Civil Engineering	2	0	0	f	3	1
5	GKNB_FKTA006	Fundamental Physics for Civil Engineers	2	0	0	v	4	1
6	GKNB_MSTA001	Mathematics 1	4	2	0	v	5	1
7	GKNB_MSTA006	Methods of Engineering Calculations	0	2	0	v	2	1
8	KGNB_MMTA048	Business Economics	3	0	0	v	5	1
9	DKNB_JETA001	Basics of Law	2	0	0	v	3	2
10	EKNB_EETA019	Construction Materials 1	2	0	1	v	4	2

11	EKNB_KETA030	CAD Applications 2.	0	0	3	f	4	2
12	EKNB_KETA031	Urban engineering	2	1	0	f	4	2
13	EKNB_KETA052	Geodesy	1	2	1	v	5	2
14	EKNB_SETA011	Mechanics of Structures 2	2	3	0	v	6	2
15	GKNB_MSTA008	Mathematics 2	2	2	0	v	5	2
16.	EKNB_EETA020	Construction Materials 2	2	0	1	v	4	3
17.	EKNB_EETA021	Structural Engineering 1.	2	1	0	v	4	3
18.	EKNB_KETA025	Transport infrastructure 1	2	2	0	v	5	3
19.	EKNB_KETA032	GIS	2	1	0	v	4	3
20.	EKNB_SETA012	Engineering Structures 1	2	2	0	v	5	3
21.	EKNB_SETA030	Analysis and Design of Structures	2	1	0	v	5	3
22.	GKNB_MSTA011	Mathematics 3	2	2	0	v	5	3
23.	AJNB_KMTA002	Environmental Protection	2	0	0	v	2	4
24.	EKNB_EETA023	Structural Engineering 2.	2	0	0	v	2	4
25.	EKNB_KETA024	Hydrology	1	2	0	v	4	4
26.	EKNB_KETA026	Transport infrastructure 2	2	1	0	v	4	4
27.	EKNB_SETA006	Geotechnics 1	2	1	1	v	5	4
28.	EKNB_SETA009	Bridge Structures 1	2	1	0	v	4	4

29.	EKNB_SETA013	Engineering Structures 2	2	2	0	v	6	4
30.	EKNB_SETA032	Engineering Technologies	2	1	0	f	4	4
31.	EKNB_KETA002	Transport construction project 1	0	3	0	f	6	5
32.	EKNB_KETA021	Construction management 1	2	1	0	v	4	5
33.	EKNB_KETA023	Hydraulics	1	2	0	v	4	5
34.	EKNB_KETA027	Transport infrastructure 3	2	1	0	v	4	5
35.	EKNB_SETA007	Geotechnics 2	2	1	0	v	4	5
36.	EKNB_SETA014	Engineering Structures 3	2	2	0	f	5	5
37.	EKNB_SETA034	Structural Engineering Project 1	2	1	0	f	6	5
38.	EKNB_KETA022	Construction management 2	2	1	0	f	4	6
39.	EKNB_KETA028	Public Works	2	1	0	v	4	6
40.	EKNB_SETA008	Geotechnics 3	2	1	0	f	4	6
41.	EKNB_SETA033	Engineering Maintenance	2	1	0	f	4	7
42.	EKNB_SETA098	Thesis Consultation (Bachelor Programme)	0	0	0	0	15	8

Structural design and Transport infrastructure specialization (compulsory)

Nr.	Neptun code of course	Name of course	lessons / week	seminars / week	laboratory	assessment type *	credit points	semester
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1.	EKNB_KETA008	Railway tracks 1	3	0	0	f	4	6
2.	EKNB_SETA043	Timber Structures	2	1	0	v	4	6
3.	EKNB_KETA012	Traffic engineering	2	1	0	v	4	6
4.	EKNB_KETA010	Road pavements and materials	2	0	1	v	4	6
5.	EKNB_SETA044	Steel Structures	2	1	0	v	4	7
6.	EKNB_SETA045	Reinforced Concrete Structures	2	1	0	v	4	7
7.	EKNB_SETA029	BIM in Structural Engineering	3	0	0	v	4	7
8.	EKNB_KETA046	Urban transport planning	2	1	0	v	4	7
9.	EKNB_KETA013	Hydraulic structures	2	1		v	4	7
10.	EKNB_SETA042	Geotechnics in Practice	2	1		f	4	7

Physical education

Nr.	Neptun code of course	Name of course	less ons / week	semi nars / week	asse ssm ent type *	cr ed it po int s
1.	TKNB_TSKA001	Physical Education I Swimming	0	2	a	0
2.	TKNB_TSKA002	Physical Education I Power	0	2	a	0
3.	TKNB_TSKA003	Physical Education I Fitness	0	2	a	0
4.	TKNB_TSKA004	Physical Education I Sport Skills	0	2	a	0

Hungarian Language (compulsory)

Nr.	Neptun code of course	Name of course	less ons / week	semi nars / week	asse ssm ent type *	cr ed it po int s
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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

9 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
1.	AJNB_KMTA024	Engineering Communication Skills	1	2	f	4
2.	EKNB_EETA030	Building Energetics	1	1	f	2
3.	EKNB_EETA031	Fire Protection of Buildings	1	1	f	2
4.	EKNB_KETA004	Strategic planning	1	1	f	2
5.	EKNB_KETA050	International planning workshop	0	0	v	2
6.	EKNB_SETA047	Engineering Capability Development	0	4	f	4
7.	EKNB_SETA070	Modern methodologies in architecture	2	0	v	2
8.	EKNB_SETA071	BIM - Building Information Modelling	2	0	f	2
9.	MKNB_DSTA001	Design culture	2	0	v	2

* type of assessment

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

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

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

s - teacher's signature - without evaluation

Programme supervisor: Dr. Szép János

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Photo of Programme supervisor:



CV of Programme supervisor:

https://admissions.sze.hu/images/cv/CV-Janos_Szep_2023-ENpdf.pdf

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

Programme mentor: LAZÁNYI Andrea lazanyia@ga.sze.hu