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## 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

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**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	assessment type	credit points	semester
1	<a href="#">EKNB-EETA018</a>	Descriptive Geometry	0	2	0	f	3	1
2	<a href="#">EKNB-KETA029</a>	CAD Application 1.	0	0	3	f	4	1
3	<a href="#">EKNB-SETA010</a>	Mechanics of Structures 1	2	3	0	v	6	1
4	<a href="#">EKNB-SETA031</a>	Introduction to Civil Engineering	2	0	0	f	3	1
5	<a href="#">GKNB FKTA006</a>	Fundamental Physics for Civil Engineers	2	0	0	v	4	1
6	<a href="#">GKNB-MSTA001</a>	Mathematics 1	4	2	0	v	5	1
7	<a href="#">GKNB-MSTA006</a>	Methods of Engineering Calculations	0	2	0	v	2	1
8	<a href="#">KGNB MMTA048</a>	Business Economics	3	0	0	v	5	1
9	<a href="#">DKNB JETA001</a>	Basics of Law	2	0	0	v	3	2

10	<u>EKNB EETA019</u>	Construction Materials 1	2	0	1	v	4	2
11	<u>EKNB KETA030</u>	CAD Applications 2.	0	0	3	f	4	2
12	<u>EKNB KETA031</u>	Urban engineering	2	1	0	f	4	2
13	<u>EKNB KETA052</u>	Geodesy	1	2	1	v	5	2
14	<u>EKNB SETA011</u>	Mechanics of Structures 2	2	3	0	v	6	2
15	<u>GKNB MSTA008</u>	Mathematics 2	2	2	0	v	5	2
16.	<u>EKNB EETA020</u>	Construction Materials 2	2	0	1	v	4	3
17.	<u>EKNB EETA021</u>	Structural Engineering 1.	2	1	0	v	4	3
18.	<u>EKNB KETA025</u>	Transport infrastructure 1	2	2	0	v	5	3
19.	<u>EKNB KETA032</u>	GIS	2	1	0	v	4	3
20.	<u>EKNB SETA012</u>	Engineering Structures 1	2	2	0	v	5	3
21.	<u>EKNB SETA030</u>	Analysis and Design of Structures	2	1	0	v	5	3
22.	<u>GKNB MSTA011</u>	Mathematics 3	2	2	0	v	5	3
23.	<u>AJNB KMTA002</u>	Environmental Protection	2	0	0	v	2	4
24.	<u>EKNB EETA023</u>	Structural Engineering 2.	2	0	0	v	2	4
25.	<u>EKNB KETA024</u>	Hydrology	1	2	0	v	4	4
26.	<u>EKNB KETA026</u>	Transport infrastructure 2	2	1	0	v	4	4
27.	<u>EKNB SETA006</u>	Geotechnics 1	2	1	1	v	5	4

28.	<u>EKNB SETA009</u>	Bridge Structures 1	2	1	0	v	4	4
29.	<u>EKNB SETA013</u>	Engineering Structures 2	2	2	0	v	6	4
30.	<u>EKNB SETA032</u>	Engineering Technologies	2	1	0	f	4	4
31.	<u>EKNB KETA002</u>	Transport construction project 1	0	3	0	f	6	5
32.	<u>EKNB KETA021</u>	Construction management 1	2	1	0	v	4	5
33.	<u>EKNB KETA023</u>	Hydraulics	1	2	0	v	4	5
34.	<u>EKNB KETA027</u>	Transport infrastructure 3	2	1	0	v	4	5
35.	<u>EKNB SETA007</u>	Geotechnics 2	2	1	0	v	4	5
36.	<u>EKNB SETA014</u>	Engineering Structures 3	2	2	0	f	5	5
37.	<u>EKNB SETA034</u>	Structural Engineering Project 1	2	1	0	f	6	5
38.	<u>EKNB KETA022</u>	Construction management 2	2	1	0	f	4	6
39.	<u>EKNB KETA028</u>	Public Works	2	1	0	v	4	6
40.	<u>EKNB SETA008</u>	Geotechnics 3	2	1	0	f	4	6
41.	<u>EKNB SETA033</u>	Engineering Maintenance	2	1	0	f	4	7
42.	<u>EKNB_ SETA098</u>	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
1.	<u>EKNB_KETM008</u>	Railway tracks 1	3	0	0	f	4	6
2.	EKNB_SETM043	Timber Structures	2	1	0	v	4	6
3.	EKNB_KETM012	Traffic engineering	2	1	0	v	4	6
4.	EKNB_KETA010	Road pavements and materials	2	0	1	v	4	6
5.	EKNB_SETM044	Steel Structures	2	1	0	v	4	7
6.	EKNB_SETM045	Reinforced Concrete Structures	2	1	0	v	4	7
7.	EKNB_SETM029	BIM in Structural Engineering	3	0	0	v	4	7
8.	EKNB_KETM046	Urban transport planning	2	1	0	v	4	7
9.	<u>EKNB KETA013</u>	Hydraulic structures	2	1		v	4	7
10.	<u>EKNB SETA042</u>	Geotechnics in Practice	2	1		f	4	7

### Physical education

Nr.	Neptun code of course	Name of course	lessons / week	seminars / week	assessment type *	credit points
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	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

**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.	<u>AJNB KMTA024</u>	Engineering Communication Skills	1	2	f	4
2.	<u>EKNB EETA030</u>	Building Energetics	1	1	f	2
3.	<u>EKNB EETA031</u>	Fire Protection of Buildings	1	1	f	2
4.	<u>EKNB KETA004</u>	Strategic planning	1	1	f	2
5.	<u>EKNB KETA050</u>	International planning workshop	0	0	v	2
6.	<u>EKNB SETA047</u>	Engineering Capability Development	0	4	f	4
7.	<u>EKNB SETA055</u>	Civil Engineers in Society	2	0	f	2
8.	<u>EKNB SETA070</u>	Modern methodologies in architecture	2	0	v	2
9.	<u>EKNB SETA071</u>	BIM - Building Information Modelling	2	0	f	2
10.	<u>MKNB DSTA001</u>	Design culture	2	0	v	2

**\* type of assessment**

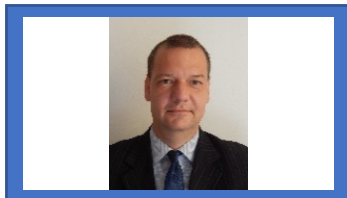
f - evaluation based on student's performance and work during the semester

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://se.sze.hu/en\\_GB/information](https://se.sze.hu/en_GB/information)

**Programme supervisor: Dr János Szép**



**CV:**

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