

## Core subjects

**Specialization:**  
**Studies plan**  
**Civil Engineering**

**Engineering infrastructure**  
2018/2019

Studies: Full time 2nd degree

No	Subject	Status	no of hours	Year I				Year II		No of ECTS/Exam.			ECTS sum
				term 1		term 2		term 3		1	2	3	
				lect.	ass.	lect.	ass.	lect.	ass.				
1	Foreign language/elective	O/W	45		45					4			4
2	Mathematics	P/O	45	15	30					3E			3
3	Theory of elasticity and plasticity	P/O	30	30						3E			3
4	Structural mechanics	P/O	45	15	30					3E			3
5	Geotechnical engineering in urban and transportation infrastructure	K/O	45	15	30					3E			3
6	Hydraulic structures	K/O	45	15	30					3E			3
7	HES: Environmental Hazard Assessment	K/O	45	15	30					3E			3
8	Computational methods (FEM, FDM and others)	P/O	45			15	30				3		3
9	Complex steel structures	K/O	45			15	30				3		3
10	Complex concrete structures	K/O	45			15	30				3		3
11	Timber structures	K/O	30			15	15				2		2
12	Advanced foundation engineering	K/O	45			15	30				3		3
13	Construction process management	K/O	30			15	15				2E		2
14	BIM in civil engineering	K/O	45			15	30				3		3
15	HES: Construction law and investment processes regulations	P/O	30			15	15				2		2
16	Diploma seminar +HES: Intellectual property management	K/W	45				15		30		1	2	3
17	Optional subjects (6 out of 10)	K/W	270	30	60	30	60	30	60	8	8	8	24
	Thesis	K/W										20	20
<b>No of hours and ECTS</b>			<b>930</b>	135	255	150	270	30	90	30	30	30	<b>90</b>

No of subjects	9	10	4	23
No of exams	6	1	0	7

## Optional subjects

Specialization:

Engineering infrastructure

Studies plan

2018/2019

Civil Engineering

Studies: Full time 2nd degree

No	Subject	no of hours	No of hours		ECTS sum
			Lecture	Assignments	
Optional subjects (6 out of 10)- 2 subjects /term					
1	Air, water and soil pollution control	45	15	30	4
2	Monitoring of civil engineering structures	45	15	30	4
3	Irrigation systems and land management	45	15	30	4
4	Natural and manmade hazards	45	15	30	4
5	Waste disposal and land reclamation (civil/environmental engineering in waste management)	45	15	30	4
6	Safety and reliability assessment of structures in civil engineering	45	15	30	4
7	Small bridges and culverts- hydroelectric small power plants	45	15	30	4
8	Pumping, dewatering and sewage systems in urban areas	45	15	30	4
9	Ground improvement methods	45	15	30	4
10	Thin wall structures	45	15	30	4
No of hours and ECTS		270	90	180	24

No of subjects	6
No of exams	