

Curriculum of Full-time Study

Field of Study: Civil Engineering

degree of Master of Science

Specialization: GENERAL CONSTRUCTION ENGINEERING

SEMESTER I (15 weeks)											
Lp.	Module name	Module ID	Hours per week					Hours per semester	ECTS	Remarks	
			L	C	LC	SW	P				S
1.	Foreign language	ENL01401		2				30	2	8	
3.	Basics of theory of elasticity and plasticity	ENL11424	1	1				30	3	2	
3.	Monolithic construction	ENL01411	1				1	30	3	1	
4.	Mechanics of engineering structures	ENL01421	2				2	60	5	2	
5.	Prestressed concrete structures	ENL01431	2				2	60	5	3	
6.	Complex metal structures	ENL01432	1				2	45	4	3	
7.	Geoengineering	ENL01441	1			1	1	45	4	4	
8.	Road infrastructure	ENL01451	1				2	45	4	5	
TOTAL			9	3	0	1	10	0	345	30	

SEMESTER II (15 weeks)											
Lp.	Module name	Module ID	Hours per week					Hours per semester	ECTS	Remarks	
			L	C	LC	SW	P				S
1.	Applied mathematics	ENL02471	2	2				60	4	7	
2.	Advanced construction technology and management	ENL12451	2				2	60	5	1	
2.	Special foundations	ENL12444	1				1	30	3	4	
4.	Numerical methods or Technology of road materials and pavements	ENL12423 or ENL32458	2		0 or 2	2 or 0		60	4	2 or 5	
5.	Elective course from the field of venture management* (HES)	ENL01202 A/B	2	1				45	4		
6.	Concrete engineering structures or Bridges	ENL12433 or ENL02436	2				2	60	5	3	
7.	Protection against dampness and corrosion or Thermal diagnostics and thermomodernization	ENL22413 or ENL22461	2		2 or 0		0 or 2	60	5	1 or 6	
TOTAL			13	3	0/2/4	2/0	5/7	0	375	30	

SEMESTER III (15 weeks)											
Lp.	Module name	Module ID	Hours per week					Hours per semester	ECTS	Remarks	
			L	C	LC	SW	P				S
1	Work experience placement	ENL03403							2	5	
2	Advanced computer-aided design of building structures	ENL13452	1				2	45	4	3	
3	Elective course HES		2					30	2		
4	MSc seminar	ENL03404					2	30	2		
5	MSc thesis	ENL03405							20		
TOTAL			3	0	0	0	2	2	105	30	

Total tutorial hours:

825

Total hours of lectures: 375
Lectures make up: 45,45 % of the total tutorial hours

Total ECTS of elective courses: 46
Elective courses make up: 51,11 % of the total ECTS

Student is required to complete:

Work experience placement (ENL03403) - 2 weeks in a selected construction company during summer holidays after semesters I or II