

## COURSE CATALOG – CIVIL ENGINEERING

Type of Study: Undergraduate professional study

Semesters: 6

ECTS: 180

	Course	Student workload (L + S + T)	ECTS credits
1st Semester (Winter)	Geology for Civil Engineers*	30+0+15	4
	Chemistry*	30+0+15	4
	Mathematics I*	45+0+45	6
	Descriptive Geometry*	45+0+45	6
	Technical Informatics*	15+0+30	3
	Technical Mechanics 1*	30+0+30	5
	<i>Foreign Language I – English*</i>	15+0+15	2
2nd Semester (Summer)	Construction Elements	30+0+15	4
	Ethics*	30+0+15	2
	Physics	45+0+30	5
	Geodesy	30+0+30	3
	Mathematics II*	45+0+45	6
	History of Civil Engineering	30+0+15	3
	Technical Mechanics II*	30+0+30	5
	<i>Foreign Language II – English*</i>	15+0+15	2
3rd Semester (Winter)	Geomechanics I	30+0+30	4
	Construction Machines	30+0+15	3
	Construction Materials	30+0+30	4
	Hydraulics	30+0+30	4
	Hydrology	30+0+15	3
	Strength of Materials	30+0+30	5
	Concrete Technology	45+0+30	4
	<i>Fundamentals of Construction Law</i>	30+0+15	3
	<i>Economics for Civil Engineering</i>	30+0+15	3
	<i>Choice from other HEI – 3<sup>rd</sup> semester</i>	30+0+15	3
4th Semester (Summer)	Concrete Constructions	30+0+30	5
	Geomechanics	30+0+30	5
	GIS	15+0+30	3
	Water Facility Construction	30+0+15	4
	Metal and Wooden Constructions	45+0+30	5
	Professional Training I	0+0+0	5
	Water Supply and Sewerage	30+0+15	3

### Building Construction

5th Semester (Winter)	General Building Regulations	30+0+15	4
	Construction Management	30+0+30	5
	Traffic Routes Design	45+0+30	6
	Spatial Planning and Urbanism*	30+0+15	3
	Foundations*	30+0+30	5
	Environmental Protection*	30+0+15	3
	Building Construction I	30+0+15	4
6th Semester (Summer)	Earthquake Engineering*	30+0+15	4
	Professional Training II	0+0+0	5
	Final Year Projects	0+0+0	15
	<i>Prefabricated Construction</i>	30+0+15	3
	<i>Building Construction II</i>	30+0+15	3
	<i>Finishing Work and Installations*</i>	30+0+15	3
	<i>Concrete Objects II</i>	30+0+15	3
	<i>Choice from other HEI – 6<sup>th</sup> semester</i>	30+0+15	3

Construction Engineering

5th Semester (Winter)	Geotechnics*	30+0+30	5
	General Building Regulations	30+0+15	4
	Building Organization	30+0+30	5
	Traffic Routes Design	45+0+30	6
	Physical Planning and Urbanism*	30+0+15	3
	Regulations and Meliorations*	30+0+15	4
	Environmental Protection*	30+0+15	3
6th Semester (Summer)	Earthquake Engineering	30+0+15	4
	Professional Training II	0+0+0	5
	Final Year Project	0+0+0	15
	<i>Prefabricated Construction</i>	30+0+15	3
	<i>Waste Management*</i>	30+0+15	3
	<i>Road Maintenance</i>	30+0+15	3
	<i>Concrete Constructions II</i>	30+0+15	3
<i>Choice from other HEI – 6<sup>th</sup> semester</i>	30+0+15	3	

L - LECTURES, S - SEMINARS, T – TUTORIALS

*Elective courses in italic*

\* Courses available in English