

OVIDIUS UNIVERSITY OF CONSTANTA
FACULTY OF CIVIL ENGINEERING

ERASMUS COURSE CATALOG
Valid for Academic year: 2019/2020

BACHELOR DEGREE PROGRAMMES in CIVIL ENGINEERING (4 years)			
Course Name	ECTS	Course Name	ECTS
1st year - Fall Semester		1st year - Spring Semester	
1. <i>Mathematical Analysis I</i>	5	1. <i>Mathematical Analysis II</i>	4
2. <i>Linear Algebra, Analytical & Differential Geometry</i>	4	2. <i>Applied Informatics</i>	3
3. <i>Computer programming</i>	3	3. <i>Technical Drawing and Infographics I</i>	4
4. <i>Descriptive Geometry</i>	5	4. <i>Mechanics II</i>	4
5. <i>Mechanics I</i>	4	5. <i>Strength of Materials I</i>	5
6. <i>Foreign Languages I - English</i>	3	6. <i>Foreign Languages II - English</i>	2
2nd year - Fall Semester		2nd year - Spring Semester	
1. <i>Technical Drawing and Infographics II</i>	5	1. <i>Numerical Analysis</i>	2
2. <i>Advanced Mathematics</i>	4	2. <i>Reinforced and Prestressed Concrete I</i>	5
3. <i>Technical Geology</i>	1	3. <i>Geotechnics</i>	6
4. <i>Building Materials</i>	6	4. <i>Fluid Mechanics and Hydraulics</i>	4
5. <i>Strength of Materials II</i>	5	5. <i>The Statics of Construction II</i>	4
6. <i>The Statics of Construction I</i>	5	6. <i>General Economy</i>	2
7. <i>Foreign Languages III - English</i>	2	7. <i>Foreign Languages IV - English</i>	2
3rd year - Fall Semester		3rd year - Spring Semester	
1. <i>Reinforced and Prestressed Concrete II</i>	5	1. <i>Civil Structures I</i>	4
2. <i>Automatic calculus of structures</i>	5	2. <i>Dynamics of Structures and Earthquake Engineering</i>	6
3. <i>Architectural Elements</i>	2	3. <i>Computer Aided Design</i>	3
4. <i>Foundations - course</i>	3	4. <i>Reinforced Concrete Constructions I - course</i>	3
5. <i>Foundations - project</i>	2	5. <i>Reinforced Concrete Constructions I - project</i>	2
6. <i>Steel structures I</i>	4	6. <i>Timber structures</i>	3
7. <i>Hydro-urban constructions</i>	3	7. <i>Steel structures II - course</i>	2
8. <i>Hydraulic constructions</i>	7	8. <i>Steel structures II - project</i>	2
9. <i>Hydrology</i>	3	9. <i>Building services</i>	3
10. <i>Economics and Legislation in Civil Engineering</i>	2	10. <i>River regularization and flood control</i>	4
11. <i>Hydro-maritime structures</i>	4	11. <i>Hydraulic Machines and Pumping Stations</i>	3
4th year - Fall Semester		4th year - Spring Semester	
1. <i>Project Management I</i>	4	1. <i>Project Management II</i>	4
2. <i>Technology of Construction Works and Machines I</i>	4	2. <i>Construction Safety</i>	3
3. <i>Reinforced Concrete Constructions II</i>	5	3. <i>Technology of Construction Works and Machines II</i>	4
4. <i>Civil Structures II</i>	5	4. <i>Agricultural Constructions</i>	3
5. <i>Industrial Constructions</i>	4	5. <i>Environmental Engineering</i>	3
6. <i>Hydrotechnical Constructions I</i>	6	6. <i>Harbours</i>	4
7. <i>Water Supply and Water Treatment</i>	5	7. <i>Hydropower Engineering</i>	3
8. <i>Sewage and Water Purification</i>	5	8. <i>Hydrotechnical Constructions II</i>	5
9. <i>Waterways</i>	4		

MASTER DEGREE (3 Semesters) Study programme: ENGINEERING OF BUILDING STRUCTURES (ISC)	
1st year - Fall Semester	
Course Name	ECTS
1. <i>Legislation in Civil Engineering</i>	4
2. <i>Geotechnical Engineering and Special Foundations</i>	6
3. <i>Finit Element Method in Structural Mechanics</i>	5
4. <i>Structures in the Nonlinear Analysis</i>	6
5. <i>Advanced Construction Materials</i>	4
1st year - Spring Semester	
Course Name	ECTS
1. <i>Engineering Seismology and Earthquake Engineering</i>	5
2. <i>The Safety of Structures</i>	5
3. <i>Stability and Resistance of Steel Structures</i>	5
4. <i>Optional 1:</i> 1. <i>Special Construction of Reinforced Concrete and Prestressed Concrete</i> 2. <i>Rehabilitation of Structures</i>	6
2nd year - Fall Semester	
Course Name	ECTS
1. <i>Energy Performance of Buildings</i>	5
2. <i>Engineering of Construction Projects</i>	5
3. <i>Optional 2:</i> 1. <i>Stability and Resistance of Harbour Constructions</i> 2. <i>Building Monitoring</i>	5
4. <i>Optional 3:</i> 1. <i>Massive Construction from Local Materials</i> 2. <i>Coastal Construction and Coastal Engineering</i>	5

MASTER DEGREE (3 Semesters) Study programme: PROJECT MANAGEMENT IN CIVIL ENGINEERING (IMPC)	
1st year - Fall Semester	
Course Name	ECTS
1. <i>Legislation in Civil Engineering</i>	4
2. <i>Real Estate Evaluation</i>	6
3. <i>Optional 1:</i> 1. <i>Organizational Risk and Internal Management Control</i> 2. <i>Technical documentation in construction field</i>	5
4. <i>Geographic Information System (GIS) in civil engineering</i>	5
1st year - Spring Semester	
Course Name	ECTS
1. <i>Project Management in Civil Engineering I</i>	5
2. <i>Environment Impact of Construction</i>	4
3. <i>Ethics and integrity in scientific research</i>	5
4. <i>Urbanism and Land Planning</i>	4
2nd year - Fall Semester	
Course Name	ECTS
1. <i>Engineering of Construction Projects</i>	4
2. <i>Environment Impact of Construction</i>	4
3. <i>Real Estate Evaluation</i>	6
4. <i>Energy Performance of Buildings</i>	6