

**MASTER'S DEGREE IN CIVIL ENGINEERING****First year: COMPULSORY CORE MODULE:**

Code	Course	ECTS	Semester
7257	Mathematical Methods	3	Fall
7258	Continuum Physics	3	Fall
7259	Mechanics of Materials	3	Fall
7260	Soil and Rock Mechanics	6	Fall
7267	Hydraulic Resources Engineering	6	Fall
7262	Structural Concrete	3	Fall
7263	Coastal Engineering	3	Fall
7264	Transport Infrastructure	3	Fall
7268	Water Resources Planning and Management	6	Spring
7265	Numerical Models	6	Spring
7266	Mechanics of Continuous Media	6	Spring
7261	Advanced Structural Design	6	Spring
7269	Water and Waste Treatment	3	Spring
7270	Project Management	3	Spring

Second year: COMPULSORY CORE MODULE:

Code	Course	ECTS	Semester
7271	Transport Systems	6	Fall
7273	Building Construction Systems	6	Fall
7272	City and Regional Planning	6	Spring
7274	Infrastructure Planning, Management and Operations	6	Spring
7275	Final Master's Project	12	Annual

ELECTIVE COURSES (Choose 24 credits: a complete module of 18 credits and 6 credits from other modules or from the free-electives module)

Module I:

Code	Course	ECTS	Semester
7276	Tunnels and Excavations	3	Fall
7277	Prestressed Concrete	3	Fall
7278	Bridge Design and Construction	6	Spring
7279	Structural Steel Design	6	Spring

Module II:

Code	Course	ECTS	Semester
7282	Modelling in Hydraulic and Environmental Engineering	6	Fall
7280	Dams Engineering and Reservoirs Management	6	Spring
7281	Energy Systems. Planning and Engineering	6	Spring

Module III:

Code	Course	ECTS	Semester
7283	Highway Management Systems and Road Safety	6	Fall
7284	Traffic Engineering	6	Spring
7285	Urban Planning and Spatial Development	6	Spring



Free-Elective Module:

Code	Course	ECTS	Semester
7286	Special Foundations	3	Fall
7287	Dynamic Calculus of Structures	3	Fall
7288	River Engineering	3	Fall
7289	Water Treatment Plants	3	Fall
7290	Road Geotechnical Engineering	3	Fall
7291	Urban Design and Management	3	Fall
7292	External Internships	Maximum 6	

IMPORTANT INFORMATION

English Friendly Courses.
<ul style="list-style-type: none">• Fall Semester = 1st Semester• Spring Semester= 2nd Semester