











**BACHELOR'S DEGREE IN CIVIL ENGINEERING****1st year**

CODE	COURSE	ECTS Credits	SEMESTER
7357	Calculus	6	Fall
 7358	Physics	6	Fall
7359	Graphics and Computer Aided Design	6	Fall
 7360	Applied Geology	6	Fall
 7361	Computing in Civil Engineering	6	Fall
7362	Algebra	3	Spring
7497	Statistics	3	Spring
7363	Applied Mechanics	6	Spring
7364	Economics and Business	6	Spring
 7365	Descriptive Geometry with 3D CAD	6	Spring
7366	Materials Oriented Chemistry	3	Spring
 7367	Materials Oriented Physics	3	Spring






2nd year

CODE	COURSE	ECTS Credits	SEMESTER
7368	Construction Materials	6	Fall
7369	Theory of Structures	6	Fall
 7370	Hydraulics	6	Fall
7371	Calculus II	6	Fall
 7372	Geotechnics	6	Fall
 7373	Topography	6	Spring
7374	Computer-Aided Structural Design	6	Spring
7375	Hydrology	3	Spring
7376	Construction Materials II	3	Spring
7377	Electrotechnics	3	Spring


GENERAL OPTIONAL COURSES - BLOCK I (Choose 9 credits, 3 courses)

7378	CAD applied to Civil Engineering	3	Spring
7379	Environmental Concepts in Civil Engineering	3	Spring
7380	Sustainable Development in Civil Engineering	3	Spring
7381	Electrical Installations	3	Spring
7382	Renewable Energies	3	Spring
7383	History of Civil Engineering	3	Spring
7384	English for Civil Engineering	3	Spring
 7385	Foundation Analysis and Design	3	Spring
 7386	Geological Field Work	3	Spring
7387	Workplace Accident Prevention	3	Spring

**3rd year**

CODE	COURSE	ECTS Credits	SEMESTER
 7388	Reinforced Concrete I	6	Fall
7389	Road Engineering	6	Fall
 7390	Fundamentals of Urbanism and Territory	3	Fall
 7391	Transports	3	Fall
 7392	Applied Hydraulics	6	Fall
7393	Structural Steel Design	6	Spring
 7394	Project and Construction Management	6	Spring
7395	Pavement Design	3	Spring
7396	GIS and Computer Applications in Topography and Cartography	3	Spring




MAJOR'S OPTIONAL COURSES**MAJOR: CIVIL CONSTRUCTIONS**

 7397	Construction Procedures	6	Spring
7398	Procedures & Construction Machinery	6	Spring
7399	Building Physics and Technology	6	Fall




MAJOR: TRANSPORT AND URBAN SERVICES

7401	Urban Services	6	Fall
7400	Urban and Intercity Traffic	6	Spring
7402	Local Urban Engineering	3	Spring
7403	Urban Transport	3	Spring

4th year

CODE	COURSE	ECTS Credits	SEMESTER
 7404	Civil Engineering Projects	6	Fall
 7405	Railways and Cableway Engineering	6	Fall
 7406	Reinforced Concrete II	3	Fall
7407	Safety Concepts in Construction Processes	6	Fall
7409	Design of Water and Wastewater Systems	6	Fall
7410	Environmental Engineering	3	Spring
7408	Final Degree Project	12	Spring

GENERAL OPTIONAL COURSES – BLOCK II (Choose 9 credits, 3 courses)

CODE	COURSE	ECTS Credits	SEMESTER
7412	Computing Aided Simulation of Urban Traffic	3	Spring
 7413	Ground Improvement	3	Spring
 7414	Bridge and Singular Structure Construction	3	Spring
 7415	Advanced Soil Mechanics	3	Spring
7416	Fundamentals of Urban Services	3	Spring
7417	Lighting Technology	3	Spring
7418	New Materials in Construction	3	Spring
7419	Construction of Hydraulic Works	3	Spring
7420	Management of Ports	3	Spring
7495	External Work Placement	6	Spring



MAJOR'S OPTIONAL COURSES

MAJOR: CIVIL CONSTRUCTIONS

7421	Coastal Engineering and Constructions	3	Fall
7422	Industrialized Construction	3	Spring
7423	Geotechnical Engineering	3	Spring

MAJOR: TRANSPORT AND URBAN SERVICES

7424	Road Maintenance and Operation	3	Fall
7425	Transportation of Materials, Intermodality and Logistics	6	Spring

IMPORTANT INFORMATION

English Friendly Courses.
Courses available in English
<ul style="list-style-type: none">• Fall Semester = 1º Semester• Spring Semester= 2º Semester
Elective courses require a minimum of students and could change the semester
Final Degree Dissertation and Internships may need special requirements