

**BACHELOR'S DEGREE IN COMPUTER SCIENCE ENGINEERING****1st year**

Code	Course	Credits ECTS	Semester
 6344	Deontological & Legal Fundamentals of IT	6	Fall
6345	Linear Algebra	6	Fall
6346	Basic Computing	6	Fall
 6347	Physics for Computer Science	6	Fall
6348	Discrete Mathematics	6	Fall
6349	English for Computing	6	Spring
6350	Calculus	6	Spring
6351	Programming	6	Spring
6352	Computer Fundamentals	6	Spring
6353	Operating Systems	6	Spring

2nd year

Code	Course	Credits ECTS	Semester
6354	Programming Methodology	6	Fall
6355	Statistics	6	Fall
6356	Software Engineering	6	Fall
6357	Databases	6	Fall
6358	Computer Architecture	6	Fall
 6359	Data Structures	6	Spring
6360	Computer Networks	6	Spring
6361	Human Computer Interaction	6	Spring
6362	Fundamentals of Enterprise Management	6	Spring
6363	Systems Analysis & Design	6	Spring

3rd year

Code	Course	Credits ECTS	Semester
 6364	Parallel Architectures	6	Fall
 6365	Intelligent Systems	6	Fall
 6366	Project Management	6	Fall
6367	Systems and Network Design and Management	6	Fall
 6368	Language Processors	6	Fall
6369	Concurrent and Real-Time Programming	6	Spring
6370	Information Systems Security	6	Spring
6371	Database Applications	6	Spring
6372	Algorithms	6	Spring
6373	Numerical methods and Optimization	6	Spring

**4th year****ELECTIVE COURSES (Choose 48 credits among the following)**

Code	Course	Credits ECTS	Semester
6374	Computer Control	6	Fall
6375	Digital Systems Design & Implementation	6	Fall
6376	Testing & Validation	6	Fall
 6377	Information Management	6	Fall
 6378	Software Maintenance and Design	6	Fall
 6379	Enterprise Management	6	Fall
6380	Computer Equipment Maintenance	6	Fall
6381	Application Specific Hardware	6	Fall
 6382	Neural & Evolutionary Computing	6	Fall
6383	Operating Systems Programming	6	Fall
6384	Distributed Systems	6	Spring
6385	Embedded & Real Time Systems	6	Spring
6386	Formal Methods	6	Spring
 6387	New Technologies and Enterprises	6	Spring
6388	Data Mining	6	Spring
6389	Advanced Development of Software Systems	6	Spring
6390	Work Placement	12	Fall /Spring
 6391	Final Degree's Project	12	Spring

IMPORTANT INFORMATION

 English Friendly Courses.

- 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