

Computer Engineering

SCHOOL

Polytechnic School (www.eps.udl.cat)

BRANCH OF KNOWLEDGE

Engineering and Architecture

DURATION

4 years (240 credits)

CREDITS

Basic training: 66

Compulsory: 138

Optional: 6

Practicum 15

Final project: 15

EDUCATIONAL OBJECTIVES

The main objective is to train students to become professionals in the field of computer engineering and to acquire skills in the technological economic branches of informatics.

This degree provides students with professional competences in the design, construction, management and maintenance of computer systems for organizations, especially with regard to the software and hardware that they use.

Their work is carried out in many sectors of informatics, in all types of businesses and in the public administration. Many also work as self-employed professionals who plan, manage and supervise projects.

COMPETENCES ACQUIRED

The ability to design and develop centralized or distributed computer systems or architectures integrating hardware, software and networks.

The ability to design, develop and maintain computer systems, services and applications using the methods of software engineering as a tool for quality assurance.

The ability to design, draw up, organize, plan, develop and endorse projects in the field of computer engineering aimed at the design, development and use of computer systems, services and applications.

The ability to define, evaluate and select hardware and software platforms for the development and implementation of computer systems, services and applications.

The ability to supervise the activities involved in computer projects.

The ability to design, develop, evaluate and ensure accessibility, ergonomics, usability and security of computer systems, services and applications, as well as the information they process.

Knowledge and application of basic economics and human resource management, project organization and planning, and of the legislation, regulation and standardization of software projects.

CAREER OPPORTUNITIES

Public administration, teaching and research.

Systems analysis and programming.

Analysis, design and management of communications networks and telematic services.

Management, organization and planning in the commercial departments of companies devoted to this type of activity.

Technical and management posts in all sectors involving computer systems.

Technical and management posts in computer engineering and service companies.

Consulting, design and integration of solutions for information and communication technologies.

Design and management of information systems.

Specialization in telematics security.

Specialization in usability of services and applications.