laSalle
RAMON LLULL UNIVERSITY

Official Undergraduate Degrees

Watch the video!

- 240 ECTS
- September
- 4 years
- 100 % English
- Campus Barcelona
- Study tours included*

Subject to academic performance.

Degree in International Computer Engineering

WHAT MAKES THIS DEGREE UNIQUE

1 You will **master the latest programming languages** and will be trained to learn any new language.

2 You will learn with **our unique methodology** based on real practical cases, teamwork and with **access to specialised advanced labs** from the very first day. And with the new LS Smart Lab, you'll be able to do engineering practices anywhere.

3 Two **study tours to world tech capitals, the exchange programmes abroad and our Campus, a living cross-disciplinary laboratory,** with students and teachers from more than 90 countries will consolidate you as a professional capable of working anywhere in leading multinational companies.

4 **You will be able to adapt easily to current market requirements** in fields related to mobile applications, web development, systems administration, technical support and digital marketing.

5 You will be prepared to obtain **CCNA and CCNP of CISCO Systems professional certification.**

LEAD THE DIGITAL REVOLUTION: ANYTIME, ANYPLACE, ANYWHERE.

The Degree in International Computer Engineering, **accredited with Excellence (A) by the Catalan University Quality Agency (AQU)**, will provide you with the skills you need to be part of a **new generation of computer engineers.** You will be prepared to take your place in a global environment and play an active role in the revolution of **Cloud Computing, Big Data and Artificial Intelligence.**

Our **Study tours in the USA and another technological city in the world** will offer you the opportunity to live an international experience and learn about two of the world's largest economies, as well as their innovation parks, and get to know other cultures.

CAREER OPORTUNITIES

- → IT Project Manager
- → Business Intelligence Analyst
- → Product owner
- → Mobile App Programmer
- → Software Engineer
- → Web Programmer
- → Web solution developer
- → CTO
- → Systems Administrator
- → Big Data Engineer
- → Machine Learning Scientist
- → Scrum Master
- → Systems Architect
- → Project Manager

30 years informatica LaSalle

SYLLABUS

1ST COURSE

Annual subjects	ECTS
Introduction to Computers	9
Design and Usability	5
Programming Methodology and Technology	10
Algebra	8
Business and Engineering	4
Thought and Creativity I	2
Calculation	10
Basic Electronic	12

2ND COURSE

Annual subjects	ECTS
Value Chain and Financial Economics	4
Advanced Programming and Data Structure	8
Statistics and Mathematical Analysis	8
Local Area Networks	6
Databases	5
Object-oriented Design and Programming	6
Digital Systems and Microprocessors	9
Thought and Creativity II	2

First Semester
Programming Projects I	3
3D Graphics Programming	5

Second Semester
Programming Projects II	4

3RD COURSE

Annual subjects	ECTS
Thought and Creativity II	3

First Semester
Operating Systems	5
Web Projects	4
Software Methodology I	4
Administration and System Design	6
Data Network Interconnection	4
Electives	4

Second Semester
Advanced Operating Systems	4
Peripheral Technologies	4
Web Projects II	5
Programming Languages	6
Organizational Management	3
Knowledge-Based Systems	4
Electives	4

4TH COURSE

First Semester	ECTS
Programming of Mobile Devices	4
Computer Architecture	5
Project Management	3
Software Methodology II	4
Projects in Distributed Architecture	4
Internship	4
Data Mining	5

Second Semester
Technological Trends	4
Final Thesis	16
ICT Security	4
Entrepreneurship and Innovation	3
Electives	4

SPECIALISATIONS

You can choose the specialisation that best suits your profile. The electives subjects, the internship and the Final Thesis can be focus on these **3 different areas.**

VIDEO GAMES:
Video games Design (4)
Video games Programming (4)
Video games Production (4)

CYBERSECURITY:
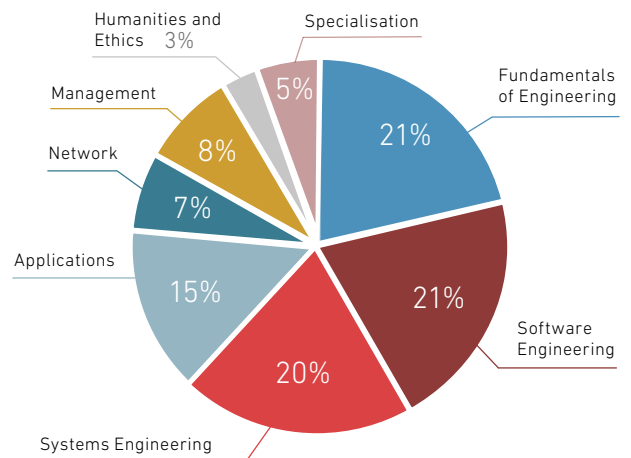Telematics Laboratories (6)
CCNA (6)
CCNA Security (8)

ROBOTICS:
Introduction to Robotics (3)
Artificial Intelligence Applied to Robotics (3)
Robotics Projects (9)

AREAS OF KNOWLEDGE

- Humanities and Ethics 3%
- Specialisation 5%
- Fundamentals of Engineering 21%
- Software Engineering 21%
- Systems Engineering 20%
- Applications 15%
- Network 7%
- Management 8%

A UNIQUE DEGREE AT A CAMPUS OF INTERNATIONAL EXCELLENCE

BE REAL, BE YOU.