

# International Computer Engineering

Official University Degree

**NEW  
DEGREE**

**100% IN  
ENGLISH**

**laSalle**

**RAMON LLULL UNIVERSITY**



Innovation  
Branding  
Solution  
Marketing  
Analysis  
Ideas  
Success  
Management

# INTRODUCTION AND OBJECTIVES

Get the official title of **Graduate in Computer Engineering by Ramon Llull University** and get ready to work in a global world.

This new degree will enable you to form part of a **new generation of Computer Science engineers who are able to work in a global environment and lead the digital revolution: “anytime, anywhere, anywhere”**.

**La Salle Degree’s in Computer Engineering**, is the only degree program in Barcelona which equips you with the skills and knowledge needed to meet the new international demands of the computer engineering sector and of the global business world.

You will be trained to work with the **latest technologies and products**, designing, implementing and maintaining IT systems on an international scale, providing **solutions to problems which challenge both national and multinational corporations**.

**We will train you to become an engineer who forms an active part of the revolution in cloud computing, Big data management and Artificial Intelligence.**

# WHAT MAKES THE LA SALLE DEGREE'S IN COMPUTER ENGINEERING DIFFERENT

## 01 OUR COMMITMENT TO WEB TECHNOLOGIES

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We believe that the future lies in web technologies so we **consolidate and develop web projects as part of the study plan.**



## 02 GLOBAL AND INTERNATIONAL EXPERIENCE

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You will be trained to work in a global world, in an international context and with an international vision, and you will learn to understand different cultures and different ways of doing business all over the world. On completion of the program, **you will speak fluent English and this will open many doors for you with leading multinational companies.**



## 03 DEVELOPMENT OF MOBILE APPLICATIONS

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There is an increasing demand for qualified professionals in this sector in order to meet the growing demand and importance of mobile devices in society. At La Salle we place a great deal of importance on this area of knowledge which is the backbone of the **practical subjects for IOS and Android mobile applications.**



## 04 TELEMATICS AND CCNA

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Another of the features which differentiates the La Salle's Computer Engineering degree program is the in-depth study of telematics and network management. **The study plan incorporates the professional CISCO Systems accreditations for CCNA and CCNP, which are in high demand in the sector.**



## 05 LATEST PROGRAMMING LANGUAGES & PLATFORMS USED IN THE SECTOR

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All the subjects on the La Salle's Computer Engineering Degree program have a comprehensive practical component which incorporates the programming of the different languages and platforms currently used in the computer engineering. **This will enable you to take on real projects and rapidly adapt to both the national and international job market.**



# THE ONLY DEGREE PROGRAM IN COMPUTER ENGINEERING TAUGHT EXCLUSIVELY IN ENGLISH

This new **Degree in Computer Engineering** will prepare you to embark upon a highly successful career in our constantly-evolving and increasingly technological and global world.

This degree program meets the new business model and the emerging needs of the sector: **“Anytime, anyplace, anywhere.”**

You will be ready to **work in the leading multinationals of tomorrow’s global world in any part of the world** and will enjoy a **high degree of employability**.

## PROGRAM 100% IN ENGLISH

Professors from different countries and with different professional backgrounds make up the **teaching faculty and classes are taught in the global language of the business world: English.**



## INTERNATIONAL STAGES

The **degree program includes two international stages** which will give first-hand experience of the cultural and economic realities of the most powerful countries in the world. On these stages, **you will attend lectures as well as visit international institutions and companies.** These experiences will enable you to grasp the differential concepts of each market and the way each country does business.



## EXCHANGE PROGRAMS WITH INTERNATIONAL UNIVERSITIES

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You will be encouraged to take an exchange program in a **different country for one or two semesters**. Depending on your interests, we will advise you on the university and country which best suit your profile.



## INTERNATIONAL EMPLOYABILITY

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Your market is going to be the world, which means that the number of companies within your reach is endless.



## AN INTERNATIONAL CAMPUS

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You will take class with **students from over 60 different countries**: we are an international Campus with over **27% of our students coming from abroad**. You can get to know many different cultures without leaving Barcelona.



## WORLD-WIDE NETWORKING

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Thanks to the international teaching faculty and student intake, as well as the professional contacts from the industry, **you will form part of huge national and international networks and gain many useful contacts**.



## ACTIVE INTERNATIONAL TEACHING FACULTY

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Our teaching faculty is made up of an **extensive team of highly-qualified professionals** who are **renowned both in this country and abroad** and who **combine teaching with their professional activity**.



# ACADEMIC PROGRAM: INTERNATIONAL COMPUTER ENGINEERING

1<sup>st</sup>

SEMESTER 1

SEMESTER 2

Thought and Creativity I (2)

Business and engineering (4)

Algebra (8)

Calculus (10)

Programming Methodology and Technology (10)

Basic Electronics (12)

Design and Usability (5)

Introduction to Computers (9)

2<sup>nd</sup>

SEMESTER 1

SEMESTER 2

Thought and Creativity II (2)

Value Chain and Financial Economics (4)

Statistics and Mathematical Analysis (8)

Programming Projects I (3)

3D Computer Graphics (5)

Database Systems (5)

Local Area Networks (6)

Programming  
Projects II (4)

Object Oriented Programming and Design (6)

Advanced Programming and Data Structure (8)

Digital Systems and Microprocessors (9)

The **Degree in Computer Engineering** is a 4-year program with each year divided into two semesters. In the second semester of third year, you will carry out a **work placement** and in fourth year you will present your **Final Year project**.



### 3<sup>rd</sup>

#### SEMESTER 1

#### SEMESTER 2

Thought and Creativity III (3)

Software  
Methodology I (4)

Web Projects I (4)

Interconnection of  
Data Networks (4)

Operating Systems (5)

System Design and  
Administration (6)

Elective (4)

Organizational  
Management (3)

Web Projects II (5)

Knowledge Based  
Systems (4)

Advanced Operating  
Systems (4)

Programming  
Languages (6)

Peripheral  
Equipments (4)

Elective (4)

### 4<sup>th</sup>

#### SEMESTER 1

#### SEMESTER 2

Project Management (3)

Internship (4)

Software  
Methodology II (4)

Data Mining (5)

Distributed Architecture  
Projects (4)

Mobile Devices  
Programming (4)

Computer  
Architecture (5)

Entrepreneurship and  
Innovation (3)

Final Thesis (16)

Technological Trends (4)

Network and IT  
Security (4)

Elective (4)

**Title:** Graduate in Computer Engineering

**ECTS Credits:** 240 ECTS

**Program Length:** 4 years

**Language:** English

**Format:** On Campus

# WHY TAKE THE LA SALLE'S DEGREE IN COMPUTER ENGINEERING:

## LEARNING BY CHALLENGE

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This is a new learning methodology which enables students to acquire the knowledge and skills required and then interiorize them in response to real challenges posed by companies. The idea is that **you will be able to come up with innovative, creative and implementable solutions to current problems** while taking into consideration the real business environment and competition.

## TRAINING IN ETHICS AND VALUES

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**We train professionals with a high ethical commitment and the values needed to work in the global world.** You will acquire a great capacity to research and will learn the fundamental values required to deal with the various technologies present in today's society.

**Learning by  
challenge; an  
innovative, practical  
and applied  
methodology.**

## COMPETENCES AND SKILLS

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**On this degree program you will take a very practical approach to methodological, technical and technological questions.** This will enable you to present ideas and results on any of the knowledge you have acquired. **You will be able to easily adapt to present-day market needs** in areas related to mobile applications, web development, system administration, technical support and Digital Marketing.

## PRACTICAL AND PERSONALIZED TUITION

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While you are on the degree program, **you will receive personalized mentoring from a tutor.** Class size is small and students receive a 100% tailor-made tuition, both in class-time and outside it. Furthermore, if you think you need it, **you can ask for one-to-one tutorials.**



# WHY TAKE THE LA SALLE'S DEGREE IN COMPUTER ENGINEERING:

## COMMITTED TO INNOVATION AND ENTREPRENEURSHIP



At **La Salle** we are committed to the application of innovation and entrepreneurship in Engineering. We are the only university in Barcelona with its own **innovation park**. **Technova**, as part of our Business School, **gives students the opportunity to put into practice and exploit their ability to innovate, to visualize entrepreneurial opportunities and to develop and implement creative and business ideas.**

**La Salle belongs to IASP (International Association of Science Parks)** which gives our students the chance to do work placements and to find out about and participate in international innovation projects and start-ups.

## STUDY IN BARCELONA

**La Salle Campus Barcelona** is spread over **75.000m2** and **situated in a privileged position overlooking the rest of the city, just 15 minutes from the centre and 25 minutes from the airport.** The city has a great public transport network and you can get practically anywhere by bicycle.

**Barcelona is the ideal place to live and study:** A cosmopolitan city which offers its inhabitants a high standard of living with a great number of cultural, commercial and leisure activities.

A university city where a number of multinationals from all the business sectors house important research projects which attract international talent. A city which is ideal for your training: **you will find the ideal conditions for your personal, academic and professional development.**



# A CAMPUS WHERE EVERYTHING YOU NEED IS ON HAND

Our campus has been designed not only to **optimize academic performance**, but also to enable students to **enjoy their free time, sport and social life**.

Our **modern campus**, made up of **8 buildings surrounded by extensive gardens and open spaces, 30 technological laboratories, a technological innovation park**, and a recently constructed **student residence**, is unique in Barcelona.

In addition, the campus also has a **self-service restaurant, a fully-equipped gym with a rock-climbing centre, swimming pool, all-weather pitches and courts and private parking facilities**. Students can choose from a wide variety of student associations, clubs, sporting and cultural activities, volunteer work and social and ethical initiatives to **complement their university life**.



La Salle Campus  
Barcelona



# HIGHLY-SOUGHT AFTER GRADUATES

## WORK PLACEMENTS IN INTERNATIONAL COMPANIES

You will receive career guidance as from the third year of your studies and with the help of experts **you will be able to carry out work placements in consolidated international companies or in start-ups.**

**La Salle** is a feeder for both national and international companies which seek **highly-qualified graduates.** We are referring to companies such as:



We currently hold **over 700 agreements** and **we work in collaboration with over 1.300 companies.** **La Salle** also has an extensive, well-established Careers Service with experts to guide and advise you on your professional future. We receive more than **3,800 job offers per year, 27% of whom find work abroad.**

The **Ramon Llull University** is the only Catalan university which appears in the **Global Employability University Ranking**, a world-wide ranking published by the New York Times, which analyses graduate employability. **The Ramon Llull University appears in its list of the top 150 universities in the world.**





## ADMISSION PROCESS

We care about helping you make the best decision and guiding you through the process.

1) Sign up: [www.salleurl.edu/form/eng](http://www.salleurl.edu/form/eng)

2) Documentation:

- Photocopy of National Identity Document or passport.
- Digital photograph.
- Cover letter, written in the language you would like to take your studies in.
- Academic documentation.
- Access test. Unlike the "Selectividad" test, our test is specific and evaluates your aptitudes for the degree you want to study.

3) Face-to-face interview.

4) Acceptance.

5) Request for Scholarships or Economic Support and reservation of place.

## STUDENT GUIDANCE SERVICE

We offer our new students help with the management of visas, administrative procedures, accommodation, etc.

## ACCOMMODATION

We have a new residence in the very centre of the campus. In addition, we have agreements with other student residences with beneficial conditions for our students.

More information at: [www.salleurl.edu/accommodation](http://www.salleurl.edu/accommodation)

## SCHOLARSHIPS

We work to attract talent and we help young people who are interested to study with us, regardless of their financial and family situation and their geographical and cultural origins.

On average, 49% of La Salle-URL degree students benefit from grants awarded annually by La Salle.

### Scholarships:

- 1 Financial Support
- 2 Academic Merit
- 3 La Salle Schools
- 4 Scholarships for students: Collaboration scholarships

Calculate your scholarship at: [www.salleurl.edu/becas](http://www.salleurl.edu/becas)



Aristos  
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Mundus

Campus of  
International  
Excellence

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