International Computer Engineering
Official University Degree

NEW DEGREE
100% IN ENGLISH

laSalle RAMON LLULL UNIVERSITY
we love challenge
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, anyplace, 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 an engineer who takes an active part in the cloud computing revolution, Big Data Management and Artificial Intelligence.
## Academic Program: International Computer Engineering

### Program Length:
4 years

### Title:
Graduate in Computer Engineering

### ECTS Credits:
240 ECTS

### Format:
On Campus

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### 1st Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Thought and Creativity I</td>
<td>2</td>
</tr>
<tr>
<td>Business and engineering</td>
<td>4</td>
</tr>
<tr>
<td>Algebra</td>
<td>8</td>
</tr>
<tr>
<td>Calculus</td>
<td>10</td>
</tr>
<tr>
<td>Programming Methodology and Technology</td>
<td>10</td>
</tr>
<tr>
<td>Basic Electronics</td>
<td>12</td>
</tr>
<tr>
<td>Design and Usability</td>
<td>5</td>
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<tr>
<td>Introduction to Computers</td>
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### 2nd Semester

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Thought and Creativity II</td>
<td>2</td>
</tr>
<tr>
<td>Value Chain and Financial Economics</td>
<td>4</td>
</tr>
<tr>
<td>Statistics and Mathematical Analysis</td>
<td>8</td>
</tr>
<tr>
<td>Programming Projects I</td>
<td>3</td>
</tr>
<tr>
<td>3D Computer Graphics</td>
<td>5</td>
</tr>
<tr>
<td>Database Systems</td>
<td>5</td>
</tr>
<tr>
<td>Local Area Networks</td>
<td>6</td>
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<tr>
<td>Object Oriented Programming and Design</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Programming and Data Structure</td>
<td>8</td>
</tr>
<tr>
<td>Digital Systems and Microprocessors</td>
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### 3rd Semester

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<tr>
<td>Software Methodology I</td>
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<tr>
<td>Web Projects I</td>
<td>4</td>
</tr>
<tr>
<td>Interconnection of Data Networks</td>
<td>4</td>
</tr>
<tr>
<td>Operating Systems</td>
<td>5</td>
</tr>
<tr>
<td>System Design and Administration</td>
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<tr>
<td>Elective</td>
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</table>

### 4th Semester

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>Organizational Management</td>
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<tr>
<td>Web Projects II</td>
<td>5</td>
</tr>
<tr>
<td>Knowledge Based Systems</td>
<td>4</td>
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<tr>
<td>Advanced Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>Programming Languages</td>
<td>4</td>
</tr>
<tr>
<td>Peripheral Equipments</td>
<td>4</td>
</tr>
<tr>
<td>Elective</td>
<td>4</td>
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### ELECTIVE ROUTES:

**Digital Content Creation**
- Digital Photography (3)
- Multimedia Production I (4)
- Multimedia Production II (6)

**Videogames**
- Videogames Design (4)
- Videogames Programming (4)
- Videogames Production (4)

**Cybersecurity**
- Telematics Laboratory (6)
- CCNA (6)
- CCNA Security (8)

**Robotics**
- Introduction to Robotics (3)
- Artificial Intelligence Applied to Robotics (3)
- Robotics Projects (8)

### DOUBLE DEGREES:

- Computer Engineering + Telematics Engineering – 309 ECTS – 5 years
- Computer Engineering + Multimedia Engineering – 309 ECTS – 5 years

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

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.

Another feature 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.

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.

WHAT MAKES THE LA SALLE DEGREE’S IN COMPUTER ENGINEERING DIFFERENT

01 OUR COMMITMENT TO WEB TECHNOLOGIES

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

02 GLOBAL AND INTERNATIONAL EXPERIENCE

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

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

Another feature 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

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.
LEARNING BY CHALLENGE

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

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

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 from 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

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, it 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 is a member of the IASP (International Association of Science Parks) which gives our students the chance to be in 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.
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.
You will receive career guidance 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:

Apple  
HP  
IBM  
Google  
Microsoft  
Oracle  
CISCO

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 and 95% of our students 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 (Times Higher Education), which analyses graduate employability. The Ramon Llull University appears in its list of the top 100 universities in the world.

The Degree in Computer Engineering is clearly a highly-practical and professional program which guarantees graduates the immediate incorporation into the working world. At La Salle, 100% of our graduates secure employment on completion of their Degree and 60% end up working for the companies they do their work placements in.
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
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

SCHOLARSHIPS
We work to attract talent and we help young people who are interested in 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

laSalle
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