Welcome to
TELECOM BARCELONA

Academic Year 2018-2019
(February 2019)

Àrea de Secretaria Acadèmica de l'ETSETB
International Relations Office

Barcelona, 15 February 2019
The School

2015-2016

Total number of students: 3,270

New students: 615

Graduate students: 399

Outgoing exchange students: 95 (5 in Double Degree)

Incoming exchange students: 99 (4 in Double Degree)

Professors: 301 (254 are doctors)

Academic laboratories: 111

Digital Campus
School of Excellence (1)

Education: Studies of the School of Telecommunications Engineering are ranked in the first positions in Spain in 2013 (regarding Education, *El Mundo* - Newspaper)

Research: Ranked number 1 in the area of Electronic Technologies and Communications among Central and South American + Spanish and Portuguese institutions. Total of 395 institutions

<table>
<thead>
<tr>
<th>Nº</th>
<th>Institution</th>
<th>Country</th>
<th>Total production (1990-2005)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Universitat Politècnica de Catalunya (Barcelona)</td>
<td>España</td>
<td>1028</td>
</tr>
<tr>
<td>2</td>
<td>Universidad Politécnica de Madrid (Madrid)</td>
<td>España</td>
<td>826</td>
</tr>
<tr>
<td>3</td>
<td>Universidade Técnica de Lisboa (Lisboa)</td>
<td>Portugal</td>
<td>752</td>
</tr>
<tr>
<td>4</td>
<td>Universidade Estadual de Campinas (Campinas)</td>
<td>Brasil</td>
<td>642</td>
</tr>
<tr>
<td>5</td>
<td>Universidade de São Paulo(São Paulo)</td>
<td>Brasil</td>
<td>618</td>
</tr>
<tr>
<td>6</td>
<td>Universidad de Sevilla (Sevilla)</td>
<td>España</td>
<td>500</td>
</tr>
<tr>
<td>7</td>
<td>Universitat Politècnica de València (Valencia)</td>
<td>España</td>
<td>485</td>
</tr>
<tr>
<td>8</td>
<td>Universidade Federal do Rio de Janeiro (Rio de Janeiro)</td>
<td>Brasil</td>
<td>446</td>
</tr>
<tr>
<td>9</td>
<td>Centro de Investigación y de Estudios Avanzados (México, D.F.)</td>
<td>México</td>
<td>382</td>
</tr>
<tr>
<td>10</td>
<td>Universidad de Granada (Granada)</td>
<td>España</td>
<td>335</td>
</tr>
</tbody>
</table>

School of Excellence (2)

- Awards obtained by professors and students of the School
  - European information technology prize
  - Fellows of IEEE (Institute of Electrical & Electronic Engineers)
  - IEEE third millennium medal
  - European Young Investigators Awards
  - Research Prize "Jaime I" of the Valencia Government
  - Academics of the “Real Academia de Ingeniería de España“
  - PhD programs with quality label given by the Spanish Government

- Best Research Oriented University in Spain (in Networks; Signal Theory and Communication; and Electronics)
  - Comparison ESI-ISI in the above areas for the period 1996-2006
  - Citations in 2006
    - ETSETBarcelona-UPC: around 700 / ETSIT-UPMadrid: around 180 / ETSIT-UPValencia: around 120
School of Excellence (3)

- Research outcomes (1)


- European ranking
School of Excellence (4)

Research outcomes (2)
European ranking

Total items trobats: 751
Quantitat de citacions rebudes: 4,607
Mitjana de citacions per item: 6,13
Índex H: 32

CDIO (1)

The CDIO INITIATIVE is an innovative educational framework for producing the next generation of engineers.

The framework provides students with an education stressing engineering fundamentals set in the context of:

Conceiving — Designing — Implementing — Operating

real-world systems and products. Throughout the world, CDIO Initiative collaborators have adopted CDIO as the framework of their curricular planning and outcome-based assessment.
CDIO (2)

☒ ETSETB was accepted for the CDIO Council in 2009.

☒ The ETSETB study plans follow the CDIO syllabus with the specified competences, the general competences, and the competences related in engineering, associated to the design and the project accomplishment.
Signal Theory and Communications Department

Research Lines

- Antennas and Radio Systems Group
- Array & Multichannel Processing
- Control, Monitoring and Communications Group
- Optical Communications Group
- Image and Video Processing Group
- Mobile Communications Research Group
- Management, Pricing & Services in Next Generations Networks
- Radio Frequency and Microwaves
- Systems, Devices & Materials Group
- Remote Sensing Research Group
- Signal Processing and Communications Group
- Speech Processing Group
- WiCom Tec
- Audio Visual Technologies Group
- UAS and CoRa Radio Communications Group
- Electromagnetic and Photonics Engineering Group
Instrumentation and Bioengineering Division
- Biomedical Instrumentation
- Sensors and Interfaces
- Electrical Impedance tomography and spectroscopy
- Electromagnetic compatibility
- Sensor Systems

Semiconductor Devices
- Amorphous alloys for high performance devices
- Electronic materials technology
- Microsystems
- Photovoltaic solar energy
- Simulation and modelling of semiconductor devices

Design and verification of electronic circuits and systems
- Advanced hardware architectures and neural networks
- Design of custom integrated circuits and systems
- Low power design and current test of CMOS circuits
- Reliability and fault-tolerance in electronic systems
- VLSI design of high performance circuits

Power electronics
- Nonlinear electronic circuits for signal and power processing
Networks Engineering Department

Research Lines

• Wireless Networks Group

• Design and Evaluation of Broadband Networks and Services

• Telematic Services research group

• MAPS

• Research Group on Cellular Networks and Location
International Projects

- Opening to Asian Countries:
  - Agreements with BIT, BUPT
  - Areas+ program

- Agreements under study with Universities in Australia (Adelaide), Poland, Lebanon, Jordania (JUST), US (Purdue), South America, …

- Participation in the EU Surveyor Project for Education in Electrical and Information Engineering.

- Planning agreements with EU Universities under the new higher education framework in Europe.

- Increasing number of courses in English to welcome foreign students
The degrees

• Degree in Engineering Technologies and Telecommunication Services
  • Audiovisual Systems
  • Electronic Systems
  • Systems of Telecommunications
  • Telematics Engineering

• Degree in Engineering Physics
The Masters

- Master in Telecommunications Engineering
- Master in Electronic Engineering
- Master in Photonics
- Erasmus Mundus Master and PhD in Photonics Engineering, Nanophotonics and Biophotonics (Europhotonics)
- Interuniversity Master for Computer Vision
Master thesis /Bachelor thesis

- You must have an advisor for your final thesis at ETSETB. Please see that your advisor informs students.mobility@etsetb.upc.edu that he/she will supervise your thesis and which will be more or less the title of your thesis.

- Remember that all the students who will do their final thesis must defend it in our School (with independence if you have to defend it in your School too).

- The procedure for the final thesis (the same for bachelor or master) is explained at: http://etsetb.upc.edu/ca/international/foreign-students/application-and-procedure#section-13.
Practical Information

- Please check again the schedules, in case there have been additional changes. Make sure there is no overlap in exams dates neither.
- You have until the 22nd February to change your registration. After that, no further changes are accepted.
- If you want to do some changes you will need to come by at the International Relations Office in Secretaria acadèmica (building B3-001).
- The sooner you do the changes, the better the chance to get a vacancy.
Practical Information

• You should have received an e-mail from atic@upcnet.es with your login and password to access the platforms: Digital Campus (Atenea) and esecretaria.upc.edu. Please make sure it works.

• You should request for your student card through prisma-nou.upc.edu/estudiantes, which is necessary to use the UPC services (library, etc)

• Meanwhile your registration paper substitutes your student card.
Practical Information

Request for your UPC card

- Enter prisma-nou.upc.edu/estudiants, with your username and password.
- Choose “my details” from the left menu.
- Check that your address in Barcelona is ok.
- Upload your photograph at “I want to change the photo”. It must have the format detailed when clicking on the photograph link.
- For any doubt regarding the UPC card, please contact identitat.digital@upc.edu.
Thanks for your attention

International Relations Office
ETSETB
Secretaria Acadèmica

Attention hours: from 11 to 14h, and Friday from 11 to 13h
Telèfon: 93 401 19 78
Mail: students.mobility@etsetb.upc.edu