

UPC

**Universitat
Politécnica de Catalunya
BarcelonaTech**



UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH

2021-2022 ACADEMIC YEAR



30,707

students

23,630 bachelor's degree students
5,039 master's degree students
2,038 doctoral degree students

3,459

teaching and research staff

2,929

lifelong learning students

18

schools on 9 campuses

2,061

administrative and service staff

55%

international doctoral degree students
(79% of them non EU)

27%

international master's degree students

66

bachelor's degrees
2021-2022

81

master's degrees
2021-2022
(34 taught in English)

45

doctoral programmes
2021-2022

**THE UPC
IN
FIGURES**

KNOWLEDGE AREAS

**AERONAUTICAL
AND AEROSPACE
ENGINEERING**

**AGRICULTURE
AND BIOSYSTEMS
ENGINEERING**

**APPLIED SCIENCES:
MATHEMATICS, STATISTICS,
PHYSICS, OPTICS
AND PHOTONICS**

**ARCHITECTURE, URBAN
PLANNING AND BUILDING
CONSTRUCTION**

**CIVIL, ENVIRONMENTAL
AND GEOLOGICAL
ENGINEERING**

INFORMATICS ENGINEERING

**ENGINEERING FOR INDUSTRY:
ENERGY, BIOMEDICAL,
CHEMICAL, ELECTRICAL,
MECHANICAL AND MATERIALS
ENGINEERING**

**NAVAL, MARINE AND NAUTICAL
ENGINEERING**

**TELECOMMUNICATIONS
AND ELECTRONIC SYSTEMS**

TEACHING

At the UPC students are trained to become professionals in engineering, architecture, sciences and technology who have the knowledge, abilities and skills to take on new challenges in keeping with technological efficiency and sustainability criteria. The UPC teaches bachelor's, master's and doctoral degrees and continuing education courses that are complemented by international mobility and double degree programmes. Students' participation and leadership in research projects and work placements foster their relations with the world of work and bolster their autonomy and initiative. The University is therefore a space for knowledge that stimulates learning and personal growth with a dynamic, motivating teaching model.

3,823

students on internship



42

international double-degree programmes with 26 universities

5,924

graduates of bachelor's and master's degrees

Various groups of students design and build single-seater vehicles and motorcycles with which they participate in international competitions such as Formula Student. (Photo: single-seater vehicle of students at the Barcelona East School of Engineering, EEBE)

1,588

student exchange agreements with 736 higher education institutions of 53 countries

441

new doctoral degree students

42%

of UPC master's degrees are taught in English

69,442

former students registered in UPC Alumni

1,430

students on international mobility programmes
787 incoming students
643 outgoing students
(Due to the impact of the COVID-19 pandemic)

RESEARCH

Its leadership in research and innovation projects, the talent and rigour of its researchers and its network of cutting-edge facilities and equipment are the basis of the UPC's impressive positions in the main international scientific output rankings.

Over the last few years, the University has consolidated its role as a key agent in the progress of an economy that is increasingly based on knowledge and innovation and on collaboration and alliances with other research centers and researchers the world over.

2,273

papers published
in indexed journals

351

doctoral theses defended

159

scientific and technical
awards received

21

focused research centers

15

research centers that are members
of the TECNIO network

206

research groups

5

research institutes

Intelligent robotics to improve people's
quality of life
(Photo Tibi and Dabo, humanoid robots
developed by the Institute of Robotics
in Barcelona)
www.iri.upc.edu

15

associated research centers



KNOWLEDGE TRANSFER

The UPC generates knowledge and transfers it to industry with the aim of increasing businesses' capacity for innovation and competitiveness. One of its most significant lines of work is forging alliances, which are often international in nature, with large companies, institutions and corporations. It also attends to the needs of small and medium-sized businesses that wish to innovate, for which cooperating with the UPC has a multiplying effect. This activity takes shape in numerous agreements and research projects, the creation of technology-based companies, the generation and exploitation of patents and the scientific and technical services and facilities that Parc UPC makes available in order to generate progress and create jobs.



A recreation of the rover that will explore Mars on the Mars 2020 mission. The Micro and Nanotechnology Research Group (MNT) participated in developing the wind sensor of the MEDA instrument on board the rover.

Image: NASA/JPL-Caltech

2,456

companies and entities with collaboration agreements

55 MEUR

income from R&D projects (2020)

37

partially owned technology-based companies

25

patents registered in the last year

666

research agreements and projects signed in 2020

1,742

on-going research projects

ALLIANCES

The UPC has woven, through the actions of the people of which it is composed, a complex network of international alliances with other universities, research institutions and companies. These alliances lead to new projects and are the basis for a good number of initiatives in which the word 'collaboration' plays a key part. A global, interconnected world that fosters the sharing of knowledge and experiences is the setting for these alliances without borders.

276

academic cooperation
agreements with international
institutions



unite! | University Network for Innovation
Technology and Engineering

Instituto Superior Técnico, Lisbon, Portugal;
Grenoble Institute of Technology, France; Politecnico
di Torino, Italy; Technische Universität Darmstadt,
Germany; Royal Institute of Technology, Sweden; and
Aalto University, Finland partner with the UPC under
the European Commission's European Universities
Initiative to attract and export talent.



A university campus set up
by the UPC and the Technical
University of Madrid at Tongji
University (China).



View of the city of Barcelona from the Güell
Park, an exceptional point of reference that
also plays a part in the international and
creative spirit of the UPC.

INTERNATIONAL NETWORKS



European Institute of
Innovation & Technology

The EIT is a body of the European Union



The UPC is an active member in diverse
Knowledge and Innovation Communities
(KICs) founded by the European Institute of
Technology. The KICs provide a framework
where diverse stakeholders work in
collaboration to generate innovative responses
to diverse social challenges. Specifically, the
UPC is a founding member of KIC Innoenergy,
devoted to renewable energy and energy
transition, and KIC Urban mobility, devoted to
urban mobility and transition to zero carbon
emissions. UPC is also an associate member
of KIC Raw materials and KIC Health.

AUIP

Asociación Universitaria
Iberoamericana de Postgrado

CASA

Consortium for Advanced Studies
Abroad

CESAER

Conference of European Schools for
Advanced Engineering Education and
Research

CINDA

Centro Interuniversitario de Desarrollo

CLUSTER

Consortium Linking Universities of
Science and Technology for Education
and Research

EUA

European University Association

GUNI

Global University Network for Innovation

Heritage

Magalhães

RedEmprendia

RMEI

Réseau Méditerranéen des Écoles
d'Ingénieurs

TELESCOPI

Red de Observatorios de Buenas
Prácticas de Dirección Estratégica
Universitaria en Latinoamérica y Europa

T.I.M.E.

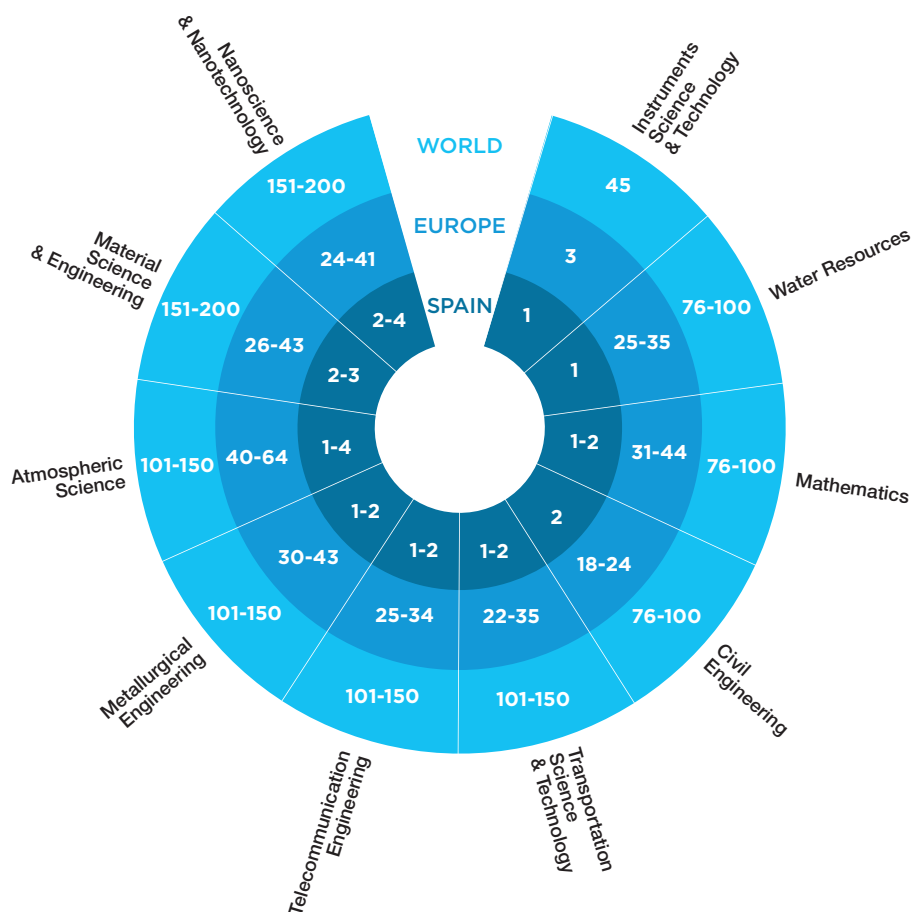
Top Industrial Managers for Europe

UNITECH International

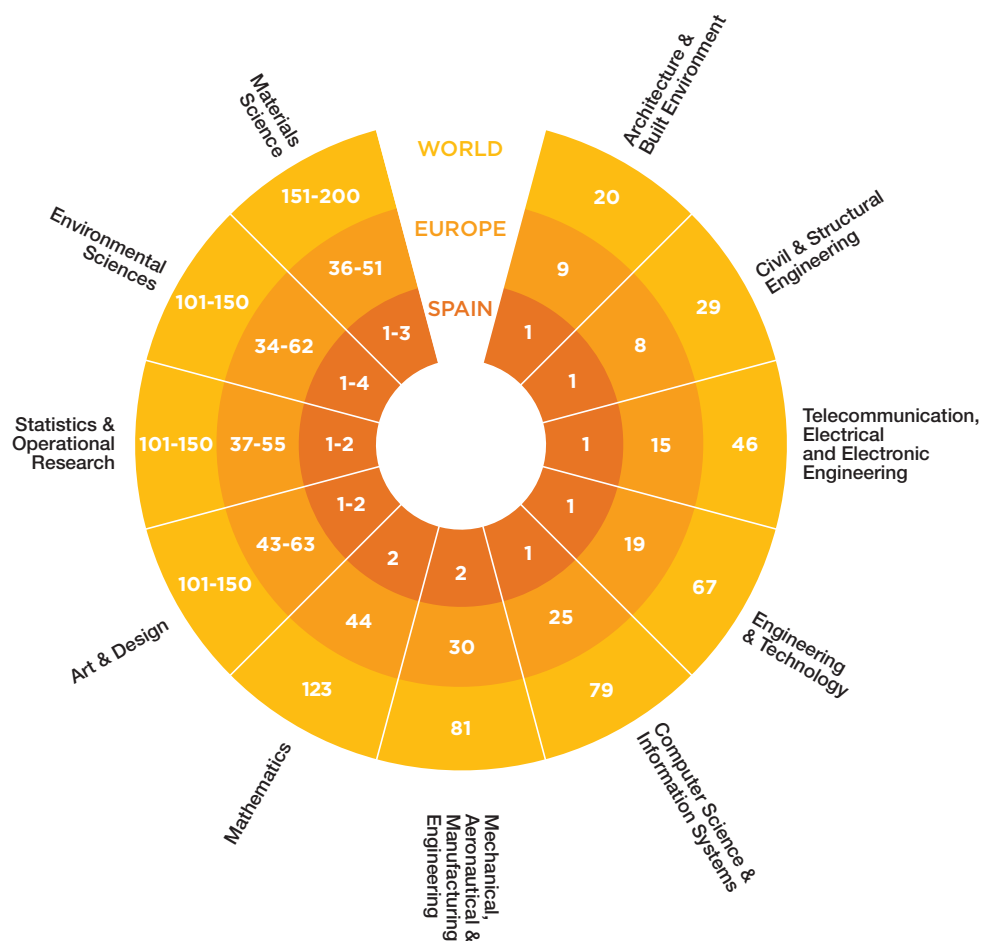
Universia



Shanghai Global Ranking of Academic Subjects, 2021



RANKINGS



QS World University Rankings by Subject, 2021