

UPC

Universitat
Politécnica de Catalunya
BarcelonaTech



UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH

2019-2020 ACADEMIC YEAR

THE UPC IN FIGURES

30,161

students

22,682 bachelor's degree students
5,269 master's degree students
2,210 doctoral degree students

3,147

teaching and research staff

18

schools on 8 campuses

2,006

administrative and service staff

2,870

lifelong learning students

45.8%

international doctoral
degree students
(34.9% of them non EU)

32.3%

international master's degree
students

64

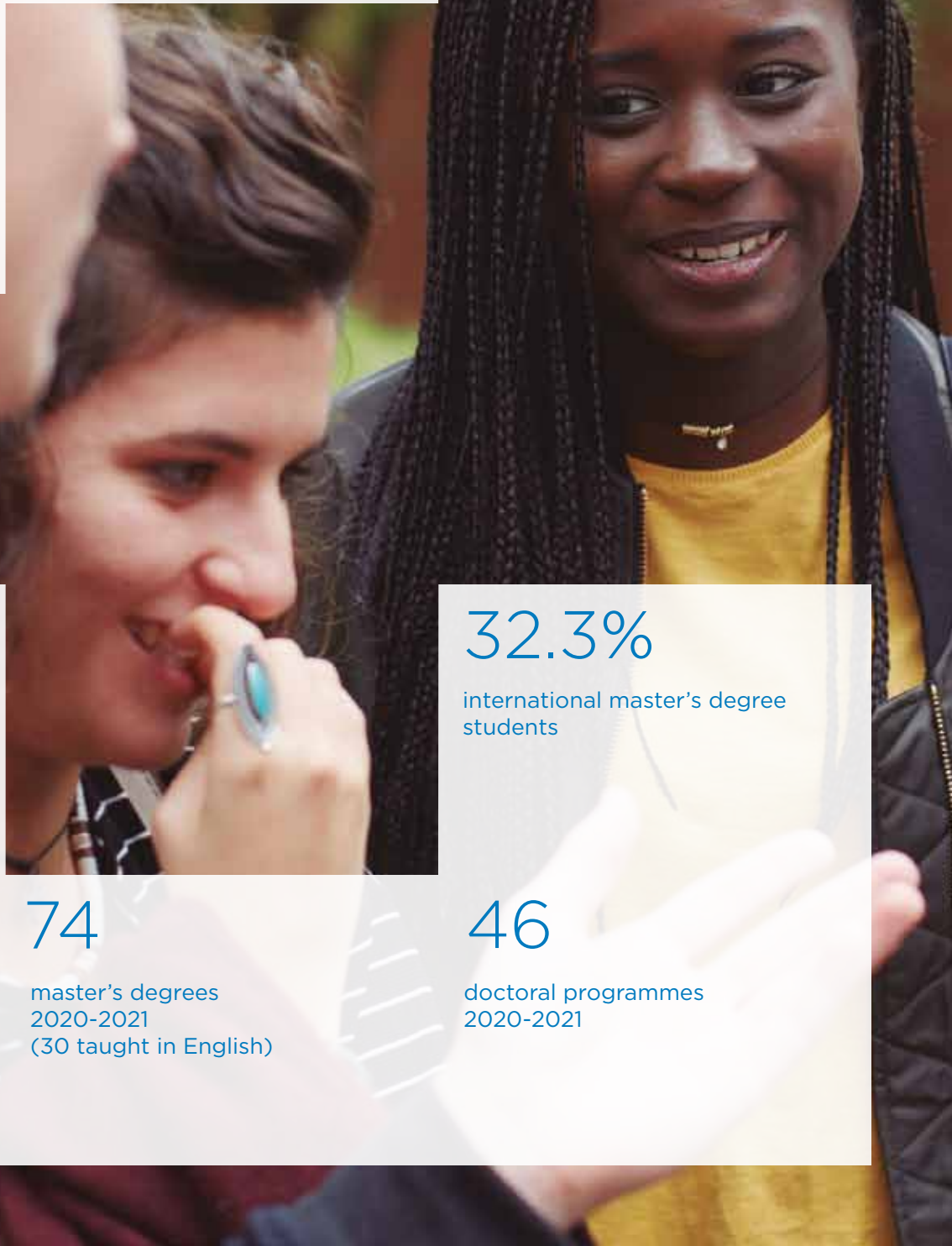
bachelor's degrees
2020-2021

74

master's degrees
2020-2021
(30 taught in English)

46

doctoral programmes
2020-2021



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.

4,586

students on internship



50

international double-degree agreements with 32 universities

5,463

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)

708

higher education institutions with student exchange agreements

454

new doctoral degree students

40.6%

of UPC master's degrees are taught in English

58,860

former students registered in UPC Alumni

2,717

students on international mobility programmes
1,380 incoming students
1,337 outgoing students

RESEARCH

Its leadership in research and innovation projects, the talent and rigor 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.

2,058

papers published
in indexed journals

292

doctoral theses defended

157

scientific and technical
awards received

21

focused research centers

14

research centers that are members
of the TECNIO network

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

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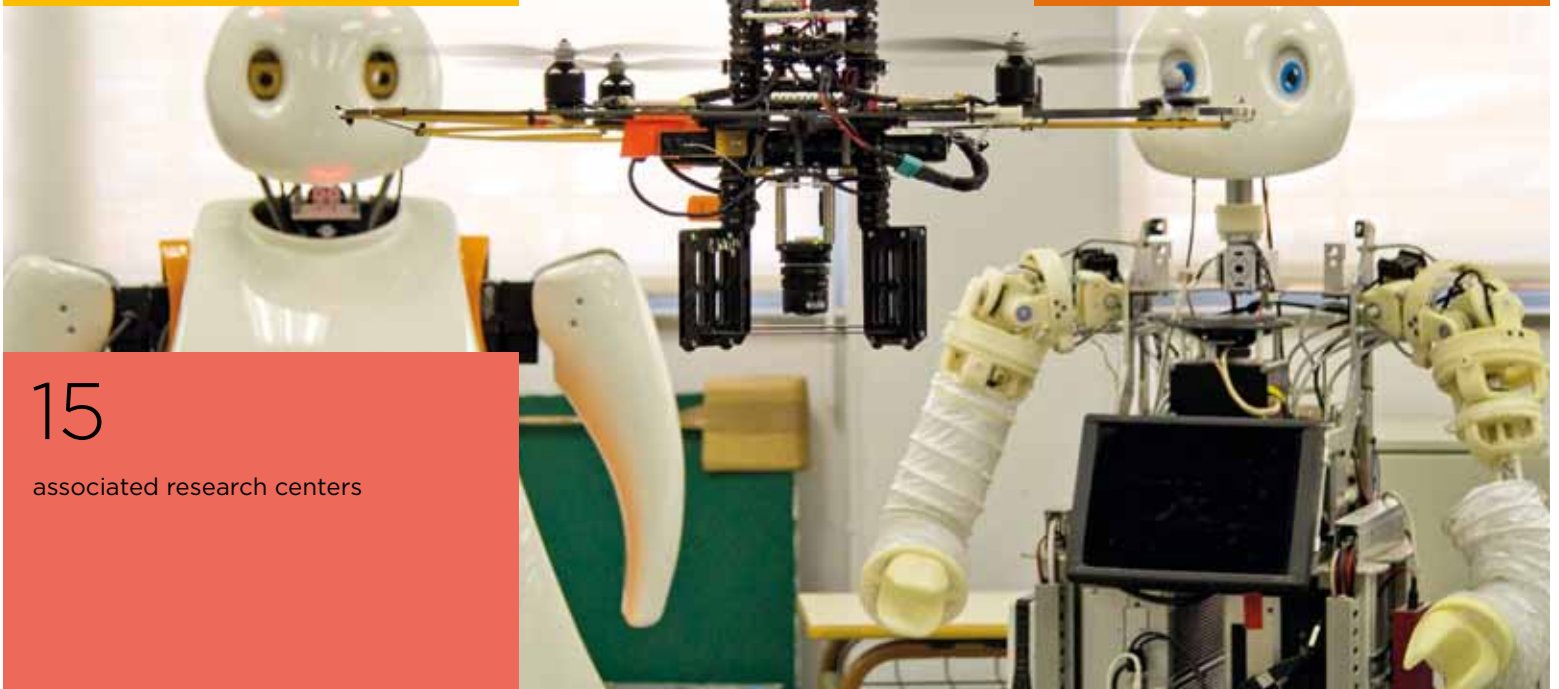
research institutes

206

research groups

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.



2,605

companies and entities with collaboration agreements

58 MEUR

income from R&D projects (2018)

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

327

spin-offs and start-ups set up since 1998

15

patents registered in the last year

654

research agreements and projects signed in 2018

1,713

ongoing 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.

379

academic cooperation agreements with international institutions



Universidade de Lisboa, Portugal; Grenoble INP Institut d'ingénierie et de management, 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.

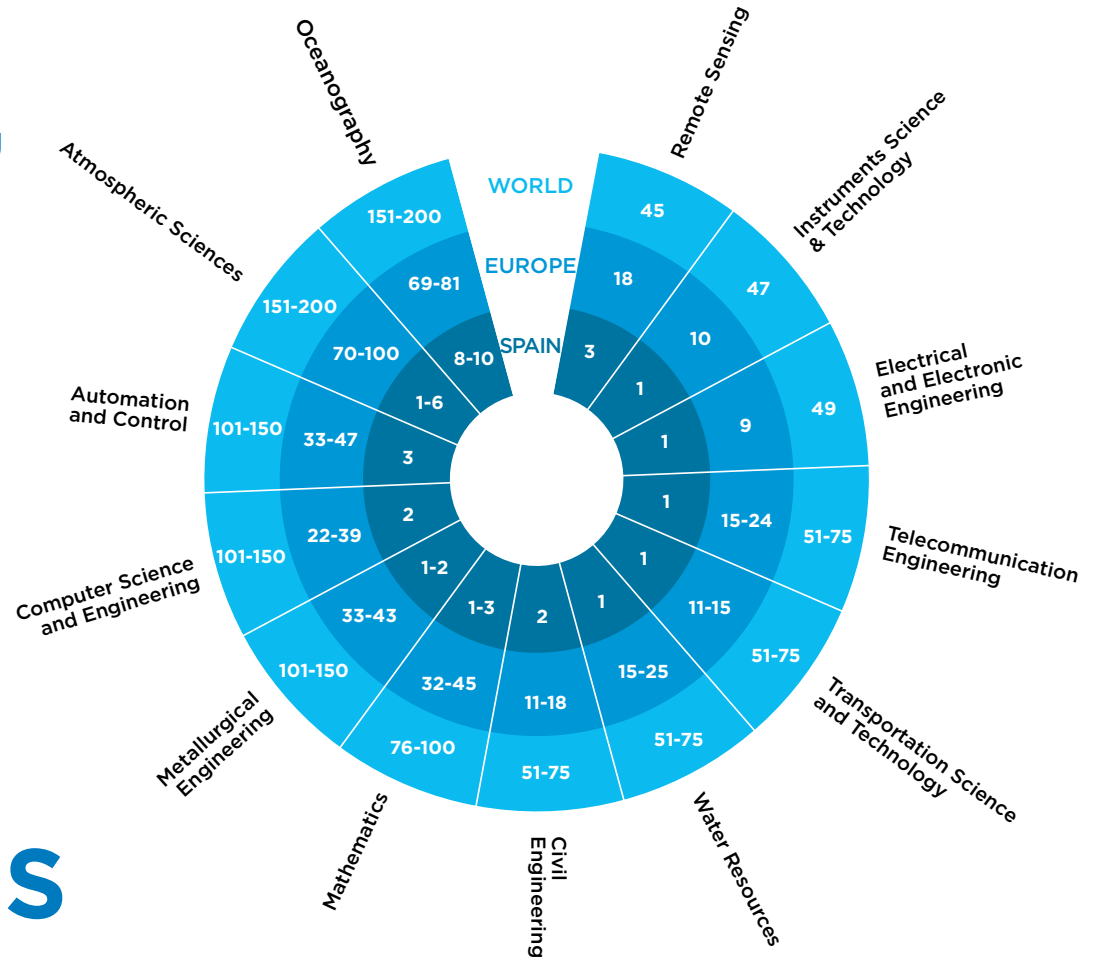
Top Industrial Managers for Europe

UNITECH International

Universia



Shanghai Global Ranking of Academic Subjects, 2019



RANKINGS



QS World University Rankings by Subject, 2019