

# UPC

Universitat  
Politécnica de Catalunya  
BarcelonaTech



UNIVERSITAT POLITÈCNICA  
DE CATALUNYA  
BARCELONATECH

2023-2024 ACADEMIC YEAR



# THE UPC IN FIGURES

32,541

STUDENTS

24,356 BACHELOR'S DEGREE STUDENTS

6,081 MASTER'S DEGREE STUDENTS

2,104 DOCTORAL DEGREE STUDENTS



3,629

TEACHING AND RESEARCH  
STAFF



2,978

LIFELONG LEARNING  
STUDENTS



18

SCHOOLS ON 9 CAMPUSES



54.6%

INTERNATIONAL DOCTORAL  
DEGREE STUDENTS  
(80.7% OF THEM NON EU)



27%

INTERNATIONAL MASTER'S  
DEGREE STUDENTS



1,989

ADMINISTRATIVE  
AND SERVICE STAFF



66

BACHELOR'S DEGREES  
2024-2025



92

MASTER'S DEGREES  
2024-2025



45

DOCTORAL PROGRAMMES  
2024-2025



# KNOWLEDGE AREAS



**AERONAUTICAL  
AND AEROSPACE  
ENGINEERING**

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**AGRICULTURE  
AND BIOSYSTEMS  
ENGINEERING**

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

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**ARCHITECTURE, URBAN  
PLANNING AND BUILDING  
CONSTRUCTION**

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**CIVIL, ENVIRONMENTAL  
AND GEOLOGICAL  
ENGINEERING**

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**INFORMATICS ENGINEERING**

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

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**NAVAL, MARINE AND NAUTICAL  
ENGINEERING**

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**TELECOMMUNICATIONS  
AND ELECTRONIC SYSTEMS**

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# 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.

44

INTERNATIONAL  
DOUBLE-DEGREE PROGRAMMES  
WITH 30 UNIVERSITIES

5,119

STUDENTS  
ON INTERNSHIP

1,551

STUDENT EXCHANGE AGREEMENTS  
WITH 716 HIGHER EDUCATION  
INSTITUTIONS OF 56 COUNTRIES

445

NEW DOCTORAL DEGREE  
STUDENTS

5,936

GRADUATES OF BACHELOR'S  
AND MASTER'S DEGREES



*Around thirty students from the Vallès School of Architecture (ETSAV) design and construct social housing in the former Civil Guard barracks of Agramunt (Lleida). Service learning on the degree in Architecture Studies.*

87,538

FORMER STUDENTS  
REGISTERED  
IN UPC ALUMNI

2,940

STUDENTS ON INTERNATIONAL  
MOBILITY PROGRAMMES  
1,414 INCOMING STUDENTS  
1,526 OUTGOING STUDENTS

51%

OF UPC MASTER'S  
DEGREES  
ARE TAUGHT  
IN ENGLISH

# RESEARCH

*Almost 4,000 people comprise the teaching and research staff and the staff who work exclusively in 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.

23

FOCUSED RESEARCH CENTERS

5

RESEARCH INSTITUTES

15

ASSOCIATED RESEARCH CENTERS

294

DOCTORAL THESES DEFENDED

14

RESEARCH CENTERS THAT ARE MEMBERS OF THE TECNIO NETWORK

2,362

PAPERS PUBLISHED IN INDEXED JOURNALS

234

SCIENTIFIC AND TECHNICAL AWARDS RECEIVED

141

RESEARCH GROUPS



# 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.

2,834

COMPANIES AND ENTITIES  
WITH COLLABORATION  
AGREEMENTS

80.9 MEUR

INCOME FROM R&D  
PROJECTS (2022)

41

PARTIALLY OWNED  
TECHNOLOGY-BASED  
COMPANIES

13

PATENTS REGISTERED  
IN THE LAST YEAR

906

RESEARCH AGREEMENTS  
AND PROJECTS SIGNED  
IN THE LAST YEAR

1,924

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.



unite!

University Network for Innovation,  
Technology and Engineering

Technische Universität Darmstadt, Germany; Aalto University, Finland; Graz University of Technology, Austria; Grenoble Institute of Technology, France; Royal Institute of Technology, Sweden; Politecnico di Torino, Italy; Universidade de Lisboa, Portugal; Wrocław University of Science and Technology, Poland, partner with the UPC under the European Commission's European Universities Initiative to attract and export talent.

中西  
學院

SINO-  
SPANISH  
CAMPUS

CAMPUS  
SINO-  
HISPÁNICO

A campus at Tongji University (China) composed of the UPC, the Technical University of Madrid, Tecnológico de Monterrey (MX) and University of Sevilla.

Aerial view  
of Barcelona.

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ACADEMIC COOPERATION  
AGREEMENTS WITH  
INTERNATIONAL INSTITUTIONS

# 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, KIC Health and KIC Manufacturing.

## 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

# POSITION OF THE UPC IN THE MAIN INTERNATIONAL RANKINGS



## Shanghai Global Ranking of Academic Subjects, 2023

	Instruments Science & Technology	Atmospheric Science	Mathematics	Civil Engineering	Water Resources	Transportation Science & Technology	Electrical & Electronic Engineering	Telecommunication Engineering	Metallurgical Engineering	Nanoscience & Nanotechnology	Automation & Control
World	51-75	76-100	76-100	76-100	101-150	101-150	101-150	151-200	151-200	151-200	151-200
Europe	5-8	28-42	31-46	17-20	32-48	19-34	27-47	39-52	44-56	24-37	38-49
Spain	3	1	1-2	2	1	1-2	2-3	1-2	2	2-3	3



## QS World University Rankings by Subject, 2023

	Architecture & Built Environment	Civil & Structural Engineering	Mineral & Mining Engineering	Telecommunication, Electrical and Electronic Engineering	Engineering & Technology	Mechanical, Aeronautical & Manufacturing Engineering	Computer Science & Information Systems	Mathematics	Art & Design	Statistics & Operational Research	Materials Science
World	22	35	51-70	58	65	81	82	100	101-150	51-100	101-150
Europe	9	9	11-15	23	25	33	27	38	42-62	19-32	35-54
Spain	1	1	2	1	2	2	1	2	1-3	1	1-3