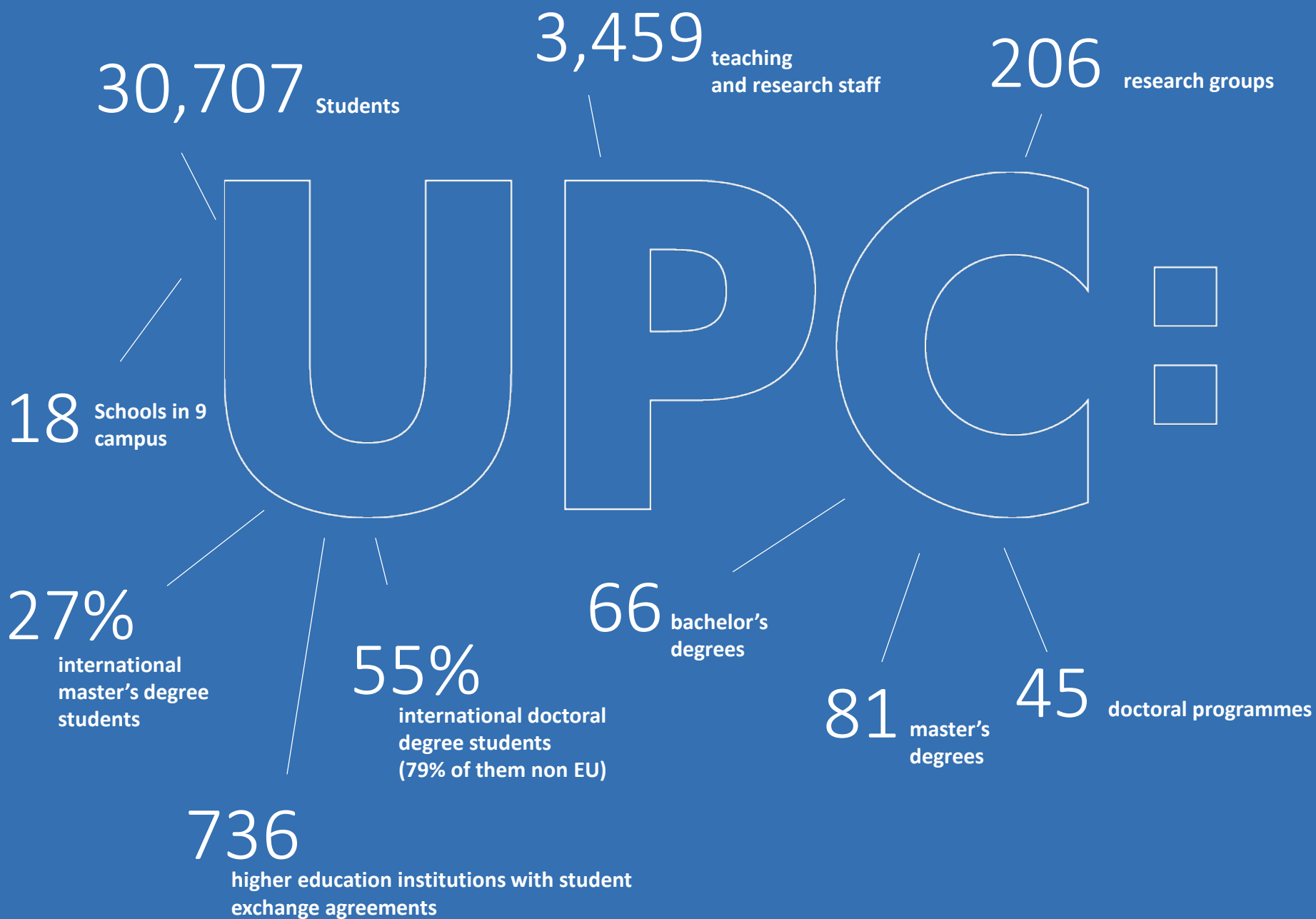


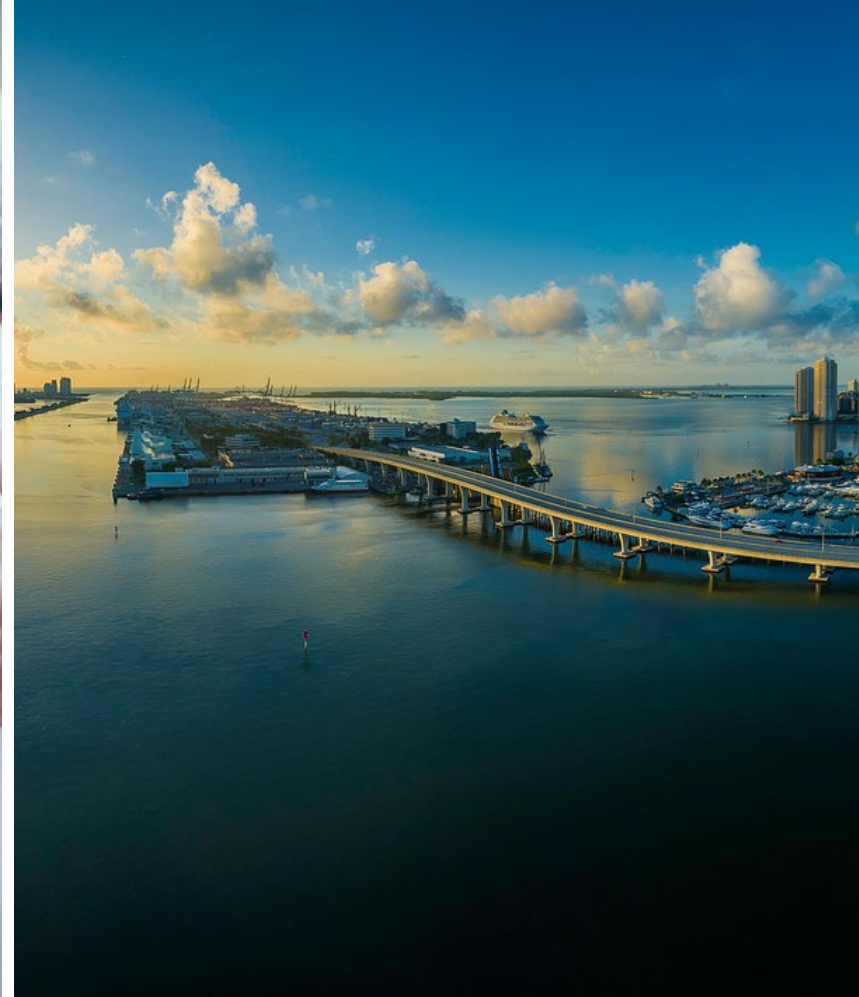
# UPC:



UNIVERSITAT POLITÈCNICA  
DE CATALUNYA  
BARCELONATECH

*International Campus of Excellence*





# BARCELONA SCHOOL OF CIVIL ENGINEERING





# INTERNATIONAL RECOGNITION

INTERNATIONAL RANKINGS SHOW US AS  
THE BEST CIVIL ENGINEERING SCHOOL IN SPAIN

Engineering that moves the world





1.059 Bachelor students

518 Master students

456 Doctoral students

208 Teaching and research staff members

81 Administrative staff members

WHO IS PART  
OF OUR  
SCHOOL?

Engineering that moves the world



# 2021 |

**318** | Journal articles

**136** | Presentation of works at congresses

**192** | Competitive R+D+I projects

**70** | Noncompetitive R+D+I projects

**12** | Research Reports

**68** | Doctoral Thesis (AY 2020-21)

**11** | Awards or recognitions

**3** | Books

| Invention patents (41 since foundation in 1973)

## RESEARCH

Engineering that moves the world



# 192 | R+D+I Competitive projects

Some of our projects are...

Keeping and Increasing Resilience Opportunities and Sustainability  
of Communities Against Earthquakes  
HORIZON 2014-2020, European Commission

High Temperature Underground Thermal Energy Storage  
Plan Estatal de Investigación Científica y Técnica y de Innovación 2017-2020

Multiscale Inversion of Porous Rock Physics using High-Performance  
Simulators: Bridging the Gap between Mathematics and Geophysics  
HORIZON 2014-2020, European Commission

Training in reducing uncertainty in structural safety  
HORIZON 2014-2020, European Commission

RESEARCH &  
PROJECTS

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# 192 | R+D+I Competitive projects

Knowledge and Innovation Communities (KIC). EIT Urban Mobility  
European Commission

Seamless probabilistic multi-source forecasting of heavy rainfall  
hazards for European flood awareness  
Directotare General Humanitarian Aid and Civil Protection, Echo  
European Commission

Computational design of Acoustic and Mechanical Metamaterials  
MINECO. Secretaria de Estado de Investigación, Desarrollo e Innovación

Valorisation of knowledge for European pre-QUALified steel JOINTS  
Research Programme of the Research Fund for Coal and Steel (RFCS)  
European Commission

Drag Reduction via Turbulent Boundary Layer Flow Control (DRAGY)  
European Commission

## RESEARCH & PROJECTS

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# 14 | Laboratories

**Maritime Engineering Laboratory (LIM/UPC)**  
*Coastal oceanography and oceanographic engineering*  
*Generating knowledge and technology*

**Technology of Structures and Materials "Lluís Agulló"**  
*Innovation and experimentation in structures and materials*  
*Promoting sustainability in the construction*

**Numerical Methods for  
Applied Sciences and Engineering (LACÀN)**  
*Mathematical and Computational Modeling*  
*Pushing the state of the art in mathematical modelling of complex phenomena*

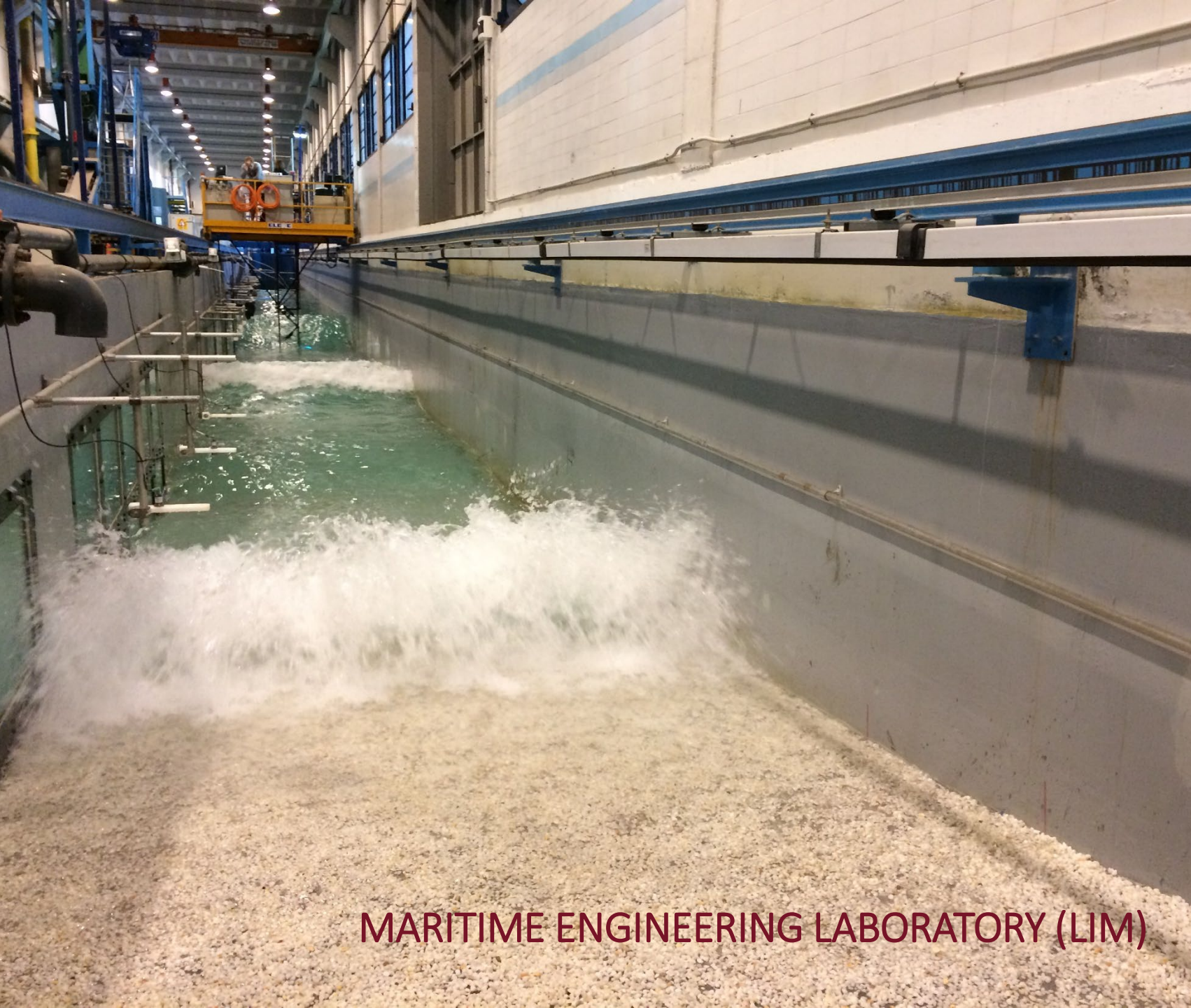
**Hydraulic and Fluid Mechanics (Flumen)**  
*Hydrology and river dynamics. Research, training and technology transfer*

**Environmental Engineering and Microbiology (GEMMA)**  
*Developing and promoting sustainable, innovative  
water treatment biotechnologies*

## RESEARCH & LABORATORIES

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# LABORATORIES

*Coastal oceanography  
and oceanographic engineering.  
Generating knowledge and technology*

MARITIME ENGINEERING LABORATORY (LIM)





# LABORATORIES

*Innovation and experimentation in  
structures and materials.  
Promoting sustainability in the  
construction*

TECHNOLOGY OF STRUCTURES AND MATERIALS  
LAB (LATEM)





# LABORATORIES

*Hydrology and river dynamics. Research,  
training and technology transfer*

HYDRAULIC AND FLUID MECHANICS LAB (FLUMEN)



INTEGRATED COASTAL INFRASTRUCTURES FOR  
EXPERIMENTATION AND MODELLING (ICTS- ICIEM)

LABORATORIES





# LABORATORIES

*Developing and promoting  
sustainable, innovative  
water treatment biotechnologies*

ENVIRONMENTAL ENGINEERING AND  
MICROBIOLOGY (GEMMA)





299 Internship agreements

124 Entities

Construction and Engineering Companies

Consulting Firms

Polling Companies

Laboratories

Banks or Service Sector

Public Administration Institutions

## INTERNSHIPS

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# COOPERATION

**Research in science and technology for development**

**Multidisciplinary teams of researchers**

**Linking final degree project to a cooperation project**

Water, Sanitation and Waste Management projects

| Water in Mozambique (Bay of Inhambane, Mozambique)

| Strategies for the Improvement of Sustainable Treatment of Wastewater and Food Waste (Phase I and II)

| Dedicated Communication for Water Management and Monitoring in the High Andean Area of Peru

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## STUDY PROGRAMMES

**3 Bachelor's Degrees**  
| With a scientific base and a broad vision of engineering

**8 Master's Degrees**  
| Qualifying for professional activity and specialization masters

**11 Double Degrees**  
| For bachelor's and master's degree students  
| In Europe, China, USA...

**2 Joint Master's Degree**  
| Flood Risk Management, Hydroinformatics, Coastal & Marine Engineering, Structural Analysis of Monuments, Transport & Mobility...

**8 Doctoral Programmes**  
| Research programmes in eight specialized fields



# STUDY PROGRAMMES

## Bachelor Degrees

### **Bachelor in Civil Engineering**

Innovation and search for creative and sustainable solutions for development

### **Bachelor in Environmental Engineering**

Control and mitigation of environmental problems and conservation of natural resources through clean energy and technologies

### **Bachelor in Marine Sciences and Technology**

Study of the marine environment with the tools and technologies of the 21st century

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STUDY PROGRAMMES

Master degrees

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**CIVIL ENGINEERING**

**ENVIRONMENTAL ENGINEERING**

**STRUCTURAL AND CONSTRUCTION ENGINEERING**

**GEOTECHNICAL ENGINEERING**

**NUMERICAL METHODS IN ENGINEERING**

**URBAN MOBILITY**

**OCEANOGRAPHY & MARINE MANAGEMENT**


**HYDROINFORMATICS & WATER MANAGEMENT**

**FLOOD RISK MANAGEMENT**

# INTERNATIONAL

Networks & internacional  
programmes

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**UNITE!** (University Network for Innovation, Technology  
and Engineering)

**EUCEET** (European Civil Engineering Education and Training)

**TIME** (Top Industrial Managers Europe)

**CLUSTER** (Consortium of Universities of Science and Technology  
for Education and Research)

**CESAER** (Conference of European Schools for Advanced  
Engineering Education and Research)

**GUNI** (Global University Network for Innovation)

**CINDA** (Centre for Interuniversity Development)

**MAGALAHES** (Student Mobility Programme between Europe,  
Latin America and the Caribbean)

**UNITECH** (Network of European Partner Universities and  
Companies)



## INTERNATIONAL

Double degrees

Mobility

Engineering that moves the world

11 International double degrees

95 Exchange students

9 Networks & International Programmes

120 International partners

39 Countries



BSc in Civil Engineering 100% **in English**

More than **125** subjects in English at  
bachelor and master level

**Our courses in English:**

<https://camins.upc.edu/ca/pdf/pdf-foreign-students/english-subjects>

INTERNATIONAL

Exchange students at  
Escola de Camins

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LOOKING FORWARD TO SEEING YOU IN BARCELONA!



# DISCOVERING THE ENGINEERING THAT MOVES THE WORLD

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