



FIB MASTERS

Master in Informatics Engineering (MEI)

Oscar Romero

Vice-dean of Postgraduate Studies

info.masters@fib.upc.edu

Index

- Facultat d'Informàtica de Barcelona
- MEI Master
 - Industrial Modality
 - Internships
 - Mobility
- Enrolment Procedure
- Grants and Aids
- Social Life
- FAQs

Index

- [Facultat d'Informàtica de Barcelona](#)
- MEI Master
 - Industrial Modality
 - Internships
 - Mobility
- Enrolment Procedure
- Grants and Aids
- Social Life
- FAQs

FIB:

Facultat d'Informàtica de Barcelona

Universitat Politècnica de Catalunya (UPC-BarcelonaTech)

About UPC

Universitat Politècnica de Catalunya (UPC-BarcelonaTech) is a public higher education and research institution that is specialised in the fields of architecture, science and engineering and one of the leading technical universities in Europe.

Every year, more than 6,000 bachelor's and master's students and more than 500 doctoral students graduate.

UPC values:

Social responsibility

Sustainability

Equal opportunities

Cooperation and solidarity



UPC Main Indicators

Main indicators *



UPC Community

- 23,990 bachelor's students
- 5,822 master's degree students
- 2,107 doctoral degree students
- 3,595 lifelong learning students
- 3,523 teaching and research staff members
- 2,074 administrative and service staff
- 70,151 UPC alumni members
- 231 doctoral theses defended
- 2,232 graduates of master's degrees
- 3,627 graduates of bachelor's degrees

Knowledge

- 65 bachelor's degrees 2022-2023
- 84 master's programmes 2022-2023
- 45 doctoral programmes 2022-2023
- 275 continuing education programmes
- 19 patents
- 38 technology companies in which the UPC has a shareholding
- 99 scientific and technical awards received
- 2,588 articles published in scientific journals
- €72,734,268 turnover for R&D projects (2021)

UPC in the world

- 5,283 students participating in educational cooperation agreements with companies
- 18 company chairs
- 13 companies set up last year
- 2,275 companies and other entities that have signed collaboration agreements with the UPC
- 34 international double-degree agreements with 26 universities
- 2,756 students in international mobility programmes
- 1,315 UPC students (outgoing)
- 1,441 mobility students at the UPC (incoming)
- 53 development cooperation projects
- 15 international networks with the UPC as a member
- 4 UNESCO chairs

* 2021-2022 academic year

About FIB

The Facultat d'Informàtica de Barcelona (Barcelona School of Informatics) belongs to UPC and it is the reference centre for Informatics studies since its inception in 1976, and the beginning of the educational activities during 1977-1978.

Throughout these 40 years, the faculty has been in charge of the bachelor's degree, diploma courses, technical engineering and master degrees and currently the formal qualifications in the field of Computer Science and related subjects.



FIB: Mission

- Provide education on **informatics engineering**
 - Promote the dissemination of information technologies to contribute to society improvements
 - Provide a strong background to our students that will be used throughout their professional life
- **Prioritizing lasting concepts**
- Promoting **effective working habits and team working**
- Stimulating their students' **ability of self-sufficiency**

FIB: Why?

- It is one of the top 10 computer science schools in Europe. We have the resources, professors and experience to offer a wide range of high-value courses.
- It is a pioneering school at university-level in Informatics in Spain and has been spearheading Catalonia's progress in the field since 1977. Its contribution to society can clearly be seen in the number of top-quality professionals it has produced, who are required by organizations that seek to innovate and make progress.
- Excellence quality certified by external and independent quality agencies.

Opportunities

- Broaden your knowledge on the latest trends and technologies in informatics.
- Complete your education with a stay at a foreign university.
- Carry out your master's thesis or work placement at a company and get paid for it.
- Study in an international environment.
- Take a double master's degree with a foreign university.
- Collaborate with the many research centres and groups linked to FIB.
- Participate in sports, cultural, international cooperation and leisure activities organized by student associations.

FIB: Why?

- It is one of the top 10 computer science schools in Europe. We have the resources, professors and experience to offer a wide range of high-value courses.
- It is a pioneering school at university-level in Informatics in Spain and has been spearheading Catalonia's progress in the field since 1977. Its contribution to society can clearly be seen in the number of top-quality professionals it has produced, who are required by organizations that seek to innovate and make progress.

Highly Skilled Professionals

- Professionals who are equipped to manage ICT projects, installations and organizations that comply with prevailing regulations and meet quality and environmental criteria.
- Entrepreneurs and researchers who are able to carry out projects in an international environment.
- Professionals who have the skills to implement ICTs in all types of companies and organizations.
- Professionals who can lead R&D departments and projects with a substantial research component.
- Graduate employment rate of practically 100% and salaries among the highest for university graduates.

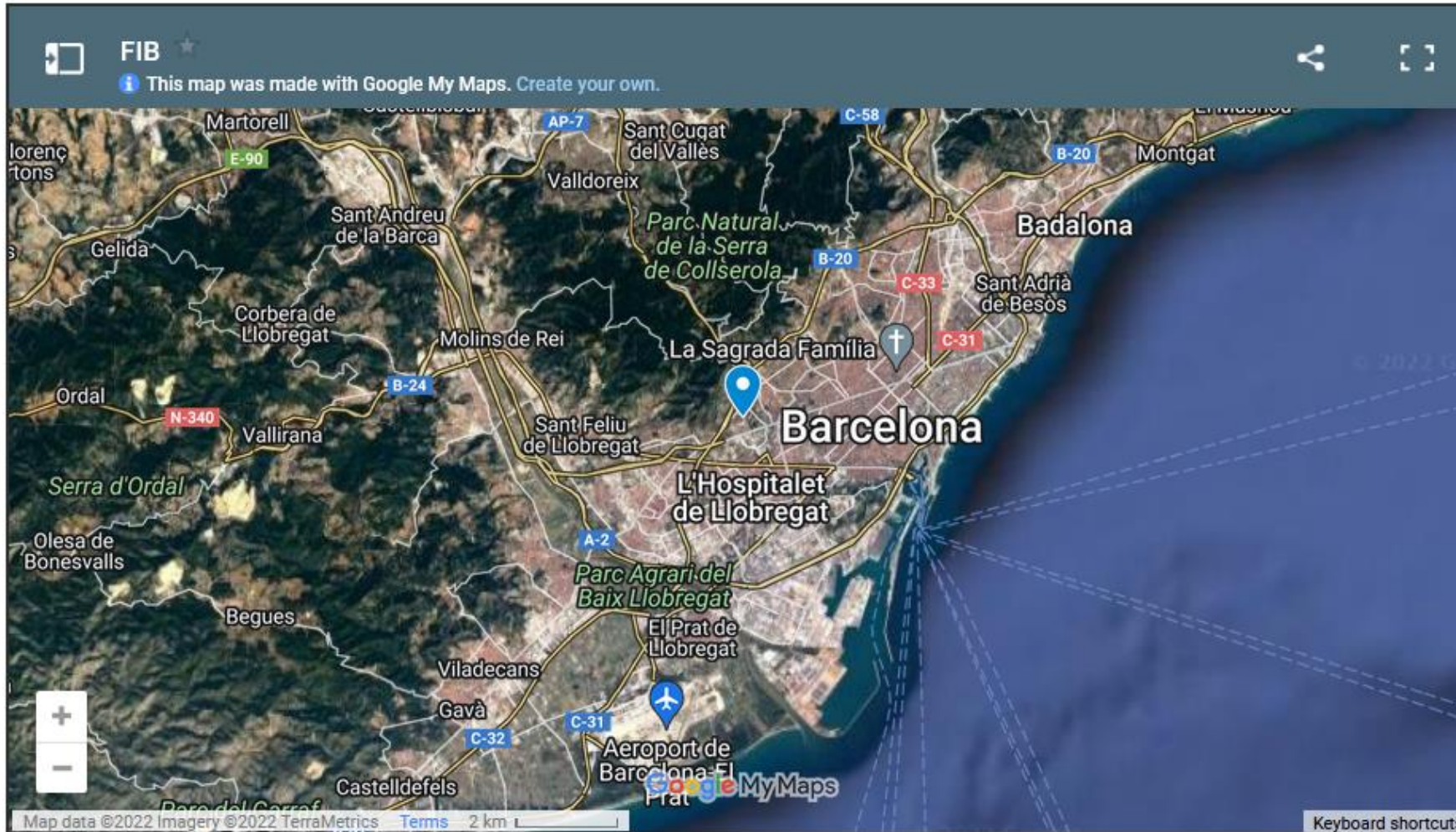
FIB: Quality Indicators



Our masters are externally evaluated and certified with the maximum quality labels by international and national evaluation organisms

- FIB established the processes and mechanisms to implement Internal Quality Assurance System (IAQS). This accreditation process is carried out by quality agencies such as AQU/EQAR and EQANIE and allows supervising the performance of studies and informs the society about its quality.
 - MEI obtained the maximum quality label **AQU-Excellence**
 - MEI obtained the Euro-Inf master quality label **EQANIE**
- What aspects do quality agencies highlight about our masters:
 - Programme learning outcomes
 - Teaching staff
 - Learning support services and resources

FIB: Where?



Address

B6 Building at Campus Nord
Jordi Girona street,1-3
08034 Barcelona

Contact

Email: Info.masters@fib.upc.edu

Web: <http://www.fib.upc.edu/>

Social Networking

<https://www.facebook.com/fib.upc>

https://twitter.com/fib_upc

<https://www.youtube.com/user/mediafib>

<https://www.instagram.com/fib.upc/>

Index

- Facultat d'Informàtica de Barcelona
- **MEI Master**
 - Industrial Modality
 - Internships
 - Mobility
- Enrolment Procedure
- Grants and Aids
- Social Life
- FAQs

Master in Informatics Engineering

Summary

MEI: Master in Informatics Engineering



The master's degree equips graduates with knowledge and hands-on experience across a wide spectrum of information technology domains: from cloud computing to security and from computer graphics to information systems, with a focus on IT management and leadership.

Graduates become the "Swiss Army knife" of IT in their organizations.

- This degree is equivalent to the former **Enginyer en Informàtica**
- Accreditations: EQUAINE, AQU-Excellence
- Language: Spanish / Catalan (B2)
 - Some courses are taught in Catalan and some in Spanish
 - Support to Spanish-speaking students to learn basic Catalan to follow the lectures
- 90 ECTS : 1.5 anys – Strong professional orientation
 - 45 Compulsory (36 IT , 9 Management)
 - 15 Elective (3 ECTS on Management)
 - 30 Master thesis
- Industrial Agreements – Curricular Internships, Professional Experience (elective ECTS)
- Complementary courses might be required

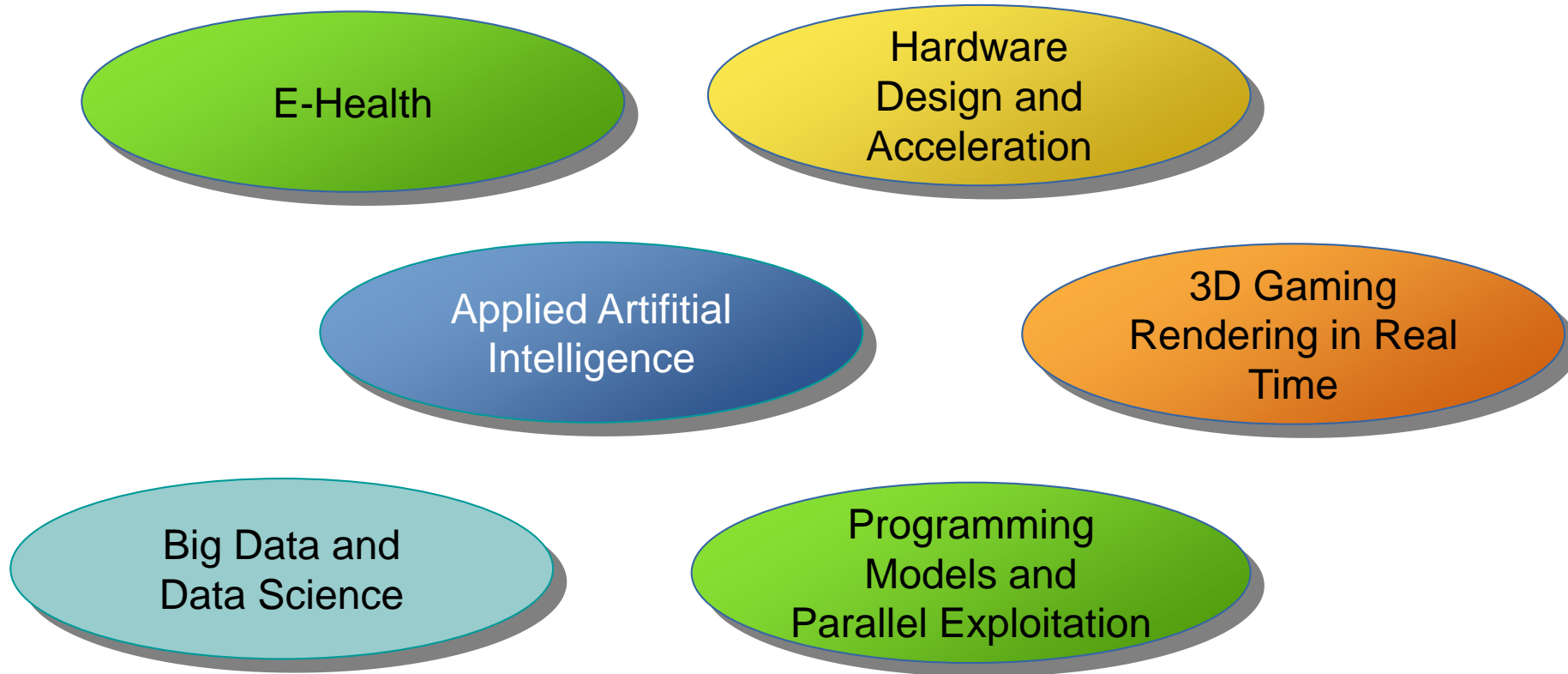
<https://masters.fib.upc.edu/masters/master-informatics-engineering>

- Recommended MEI path:

Q1	Business & Management (6)	Information Technology (24)
Q2	Business & Management (6)	Information Technology (24)
Q3	Master Thesis (ideally internship) (30)	

Note: Not all courses are offered at every semester. Plan well ahead!

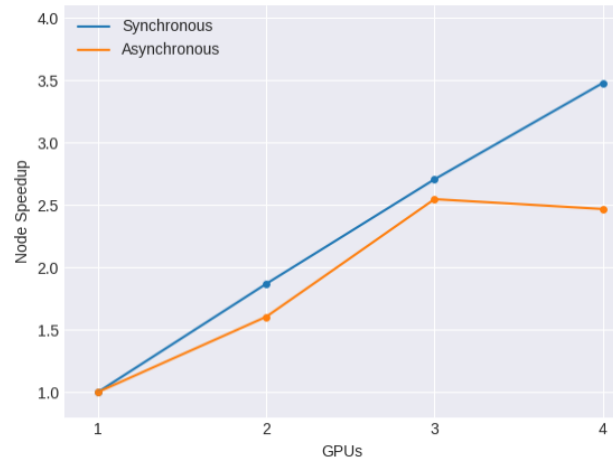
Social and Technological Challenges



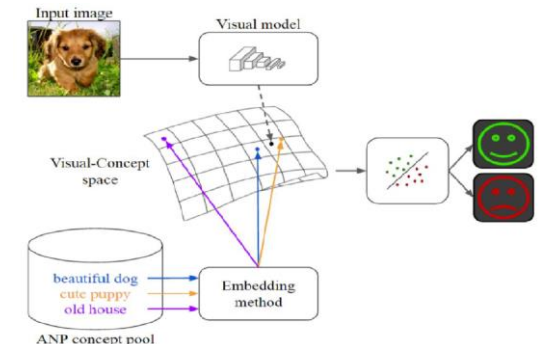
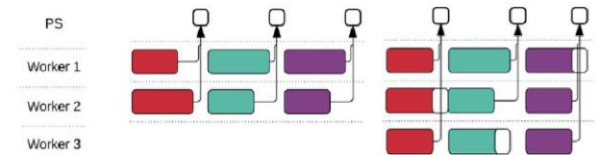
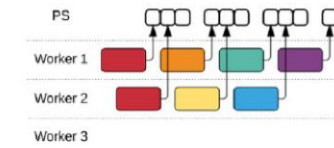
**TECHNOLOGY TRANSFER
RESEARCH + DEVELOPMENT + INNOVATION**

Master Thesis: HPC for Deep Learning

- *Title:* Study of Deep Learning Algorithms Scalability in High Performance Computer Infrastructures.
- *Author:* Francesc Sastre Cabot. **Grade: 10 (MH)**
- *Topic:* High Performance Computing and Parallel Techniques to Speed-up Deep Learning
 - Image classification
 - Object Detection, etc.



From 106 hours of training to 12 hours...



Employment Perspectives

- Software Engineering Companies
 - Companies in the field of Artificial Intelligence / Data Science
 - Internet and Multimedia Security Companies
 - Video Games, Virtual and Augmented Reality Companies
 - Companies in the Embedded field, Mobile Devices, Industry 4.0, 3D Printers, Computers, etc.
 - Sustainable Companies!
- + *Training to manage team projects, to start innovation and entrepreneurship projects, study the feasibility of launching a product or create spin-offs... Naturally oriented to become a CIO*

Industrial MEI

Internships



Internships

- *Convenis de col·laboració universitat – empresa (CCE):*
<https://www.fib.upc.edu/en/companies/industrial-practices>

Industrial Practices

[Home](#) » [Companies](#) » Industrial Practices

Industrial Practices ▼


Offers list

Posting offers


Job Placements ▶

FIB Visiona


Sponsorship ▶



Information for companies



Information for students



Regulations

Internships for students become a training activity under the supervision of the Faculty, the goal of which is to apply and complete the academic formation acquired, encouraging the professional skills that prepare for professional activities which facilitate the employment of them.

The framework of these activities is called educational cooperation agreements, regulated by [Royal Decree 592/2014](#) which regulates the external academic practices of college students.

Internships

CCE can be established between companies and FIB

- Curricular Practices:
 - Maximum of 900 hours (without accounting the Master Thesis)
 - For the master thesis, you may account 450 additional hours (i.e., for a total of 1350h)
 - Elective ECTS (minimum 6, maximum 12) [+ Master Thesis ECTS]
 - Master Thesis (Modality B –at a company- or D –at a foreign company-)
 - 30 hours → 1 ECTS

Professional Experience as elective ECTS (via work contract):

- Previous or during the master
- 1600 hours per 6 credit
 - Then, proportional

MEI – Industrial Modality



It is the same as MEI (all information from previous slide holds), but a modality thought for people working part-time at a company or in a CCE

- *Intensive training academic-professional,*
- *Focus on project management and team leadership*
- Students of this modality will achieve their studies in **2 years** with the following dedication:
 - A maximum of 4-5 hours/day dedicated to their studies at FIB,
 - Compact Lecture Schedule: 3 afternoons per week (14:00 to 20:00)
 - The rest of hours are devoted to self-study activities that can be conducted from home
 - Around 5 hours/day dedicated to their formation and work in industry

<https://masters.fib.upc.edu/masters/master-informatics-engineering-industrial-modality>

MEI Vs. MEI Industrial Modality

	MEI	Industrial MEI	
S1	ACAP, CSI, SEU, SGI, PEGTI +1,5 ECTS (1 management course)	SGI, CSI, PEGTI+SECS 18 ECTS	Internship or working experience
S2	VPEI+FPEI, DGSI, ISDCM +7,5 ECTS (3 elective courses)	VPEI+FPEI, DGSI, ISDCM 18 ECTS	Internship or working experience
S3	Master Thesis	SEU, ACAP 12 ECTS	Internship or working experience + 6/12 elective ECTS
S4		Master Thesis (B or D modality) 30 ECTS	

ECTS (industrial modality)

- 48 ECTS FIB
- 42 ECTS Industry (25/30h = 1 ECTS)

Total: 90 ECTS

Mobility and Internationalisation

Studying Abroad

Mobility and Internationalisation

Plenty of options! **202 universities in 42 countries**

- Study abroad (one or two semesters)
 - Conditions (max ECTS): MEI (30)
 - Mobility programs (many with scholarships)
 - CERN
 - Erasmus+
 - UNITECH
 - Latin America, USA and Canada
 - National Institute of Informatics (NII) Tokyo and Vulcanus in Japan
 - China
- 1 Double degree
- Internship abroad
 - Ever-open calls: Erasmus+, IAESTE, AIESEC, EntryPark
 - Academic institutions
 - Industry
- Other activities (summer schools, short stays...)

Mobility and Internationalisation

<https://www.fib.upc.edu/en/mobility>

Mobility

[Home](#) » [Mobility](#)

MOVING

Knowing a new university, discovering a new country or improving your language skills are some of the advantages of the mobility programs offered by FIB.

Personal experiences that will allow you to stay in foreign universities and intern at businesses worldwide.



Incoming



Outgoing



Double degrees



International Partnerships

Mobility and Internationalisation

- Mobility calendar: <https://www.fib.upc.edu/en/mobility/outgoing/mobility-calendar>

Mobility Calendar		
Home » Mobility » Outgoing » Mobility Calendar		
Mobility Calendar	Calls	Periods
Information Sessions	✓ Google Summer of Code	20 Mar 23 - 04 Apr 23
Mobility experiences	✗ Place application for foreign universities: Erasmus+, Latin America, Russia, Taiwan, China and double degrees	17 Feb 23 - 01 Mar 23
Study abroad ▶	✗ Application for a place at Spanish universities in the SICUE programme	13 Feb 23 - 27 Feb 23
Internship abroad	✗ IWeek a Paris	02 Jan 23 - 15 Feb 23
Other activities abroad	✗ Application for mobility in the US	01 Dec 22 - 24 Jan 23
	✗ Vulcanus programme	04 Nov 22 - 13 Jan 23
	✗ Application for the National Institute of Informatics (NII) in Tokyo - 2nd call	23 Sep 22 - 14 Oct 22
	✗ Place application for foreign universities: programa Erasmus+, Latin America, CINDA, Canada, Russia, Taiwan and China (2nd call)	13 Sep 22 - 18 Sep 22
	✗ Application for the National Institute of Informatics (NII) in Tokyo - 1st call	25 Apr 22 - 18 May 22
	✗ Application for a mobility place with the programme UNITECH	17 Dec 21 - 18 Jan 22
Opened ✓ To be open ! Closed ✗		

Mobility and Internationalisation

- Information Sessions: <https://www.fib.upc.edu/en/mobility/outgoing/information-sessions>

Mobility information session 2022-2023

For mobility stays during the academic
year 2023-2024

1st semester

Wednesday, 16 November 2022

In this first session we will inform on the various mobility programs, but we will focus on those whose call is in December-January and on the stays at US universities. Information sessions will be recorded.
Place: Sala d'actes Manuel Martí Recober

- Morning session: **12:15 pm**

2nd semester

Wednesday, 15 February 2023

In this second session we will inform on the various mobility programs, but we will focus on Erasmus+, SICUE and double degree calls. Information sessions will be recorded.
Place: Sala Àgora

- Morning session: **12:15 pm**
- Afternoon session: **15:00 pm**

Still have doubts?
Contact us at:
rel.int@fib.upc.edu



Index

- Facultat d'Informàtica de Barcelona
- MEI Master
 - Industrial Modality
 - Internships
 - Mobility
- **Enrolment Procedure**
- Grants and Aids
- Social Life
- FAQs

Enrolment Procedure

Procedure

Interested in one of our masters? This is the procedure to follow

The admission process, step by step



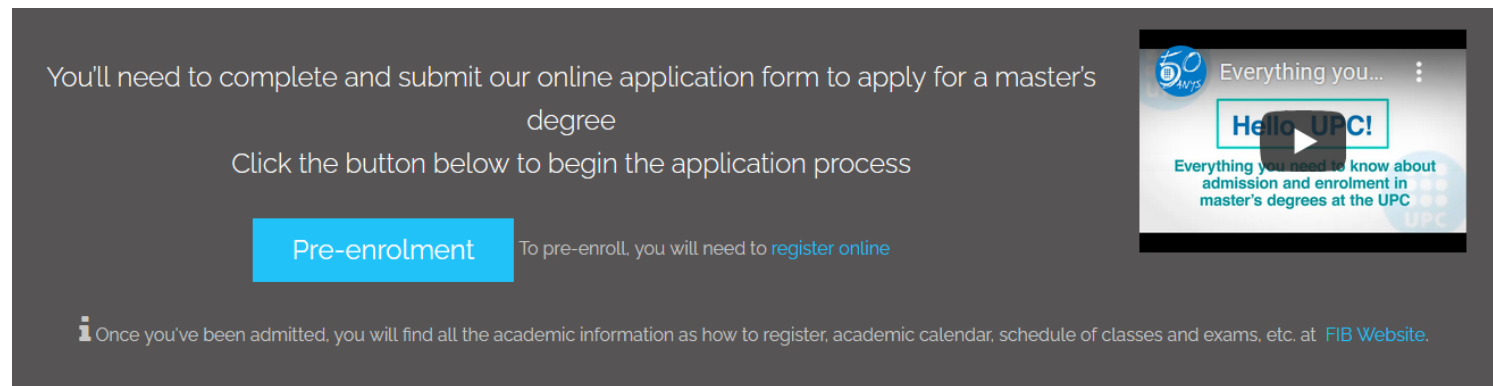
<https://www.upc.edu/en/masters/access-admission-enrolment>

Important Dates

- **Pre-enrolment**: From 27th February to 26th May 2023
- Two (three) **admission** periods:
 - First period:
 - Deadline to apply: 21st April 2023
 - Tentative admission notification: 28th April 2023
 - Second period:
 - Deadline to apply: 26th May 2023
 - Tentative admission notification: 2nd June 2023
 - *Third period*:
 - *Not guaranteed, only if seats available*
 - *Tentative deadline: 30th June*
 - *Tentative admission notification: 7th July*
- Check the specific website of each master to know about its **admission** criteria: masters.fib.upc.edu

Pre-enrolment

- Start the procedure from the masters.fib.upc.edu website. Look for your favourite master, scroll down and look for the **pre-enrolment** button as shown below



- To pre-enrol follow the instructions
 - Provide the required documentation to evaluate your admission
 - Pay 30,21€ (tax) – **Important:** the button to pay does not appear until you enter all required fields

You can learn more about the pre-enrolment process here:
<https://www.upc.edu/en/masters/access-admission-enrolment/pre-enrolment>

Important Dates

- **Pre-enrolment**: From 27th February to 26th May 2023
- Two (three) **admission** periods:
 - First period:
 - Deadline to apply: 21st April 2023
 - Tentative admission notification: 28th April 2023
 - Second period:
 - Deadline to apply: 26th May 2023
 - Tentative admission notification: 2nd June 2023
 - *Third period*:
 - *Not guaranteed, only if seats available*
 - *Tentative deadline: 30th June*
 - *Tentative admission notification: 7th July*
- Check the specific website of each master to know about its **admission** criteria: masters.fib.upc.edu

Prices

Prices 2022/23 for European Union applicants

- MEI: 18,46€ / ECTS

Prices 2022/23 for Non-European Union applicants

- MEI: 43,23€ / ECTS

***Note:** prices for 2023/2024 will be published in July. Once published, UPC list the prices here: <https://www.upc.edu/en/masters/fees-grants>*

- Perspectives to be reduced up to 17,69€ / ECTS for European Union applicants at mid-term*

More Information

- General:
 - Information: info.masters@fib.upc.edu
 - Specific academic questions: Òscar Romero (vd.postgrau@fib.upc.edu)
- Websites:
 - Regular modality: <https://masters.fib.upc.edu/masters/master-informatics-engineering>
 - Industrial modality: <https://masters.fib.upc.edu/masters/master-informatics-engineering-industrial-modality>
 - Academic calendars: <https://www.fib.upc.edu/en/studies/academic-management/academic-calendars>

Index

- Facultat d'Informàtica de Barcelona
- MEI Master
 - Industrial Modality
 - Internships
 - Mobility
- Enrolment Procedure
- **Grants and Aids**
- Social Life
- FAQs

Grants and Aids

- Find all details at: <https://masters.fib.upc.edu/grants-and-financial-aid>

General information

There are multiple ways to fund your studies at the **Universitat Politècnica de Catalunya** - BarcelonaTech (UPC). Grants, scholarships, mobility grants and loans are offered by the University and other bodies.

[Complete information about grants and financial aid at the UPC.](#)

Below you will find information on specific scholarships and grants that you can apply for at the FIB. **It is necessary to have applied for admission in the corresponding Master to qualify for any of them.**

Grants

Accenture - Barcelona Digital Talent grants (2021-2022)	▼
Seidor grants (2021-2022)	▼
NTT DATA (everis) (2021-2022)	▼
"Nacho Navarro" grants (2021/2022)	▼
FIB Visiona - FIB grants (MEI, MIRI and MAI) - 2020-2021	▼
Fundació Catalunya-La Pedrera (MAI)	▼
Fundació Catalunya-La Pedrera (MIRI)	▼

Scholarships

ARCO Scholarships for MIRI Students	▼
CBA scholarships in AI for networking for MIRI Students	▼
inLab FIB	▼
McAfee-Medina-Correa-Catalunya (McC) scholarships for MIRI students	▼

Index

- Facultat d'Informàtica de Barcelona
- MEI Master
 - Industrial Modality
 - Internships
 - Mobility
- Enrolment Procedure
- Grants and Aids
- **Social Life**
- FAQs

Social Life

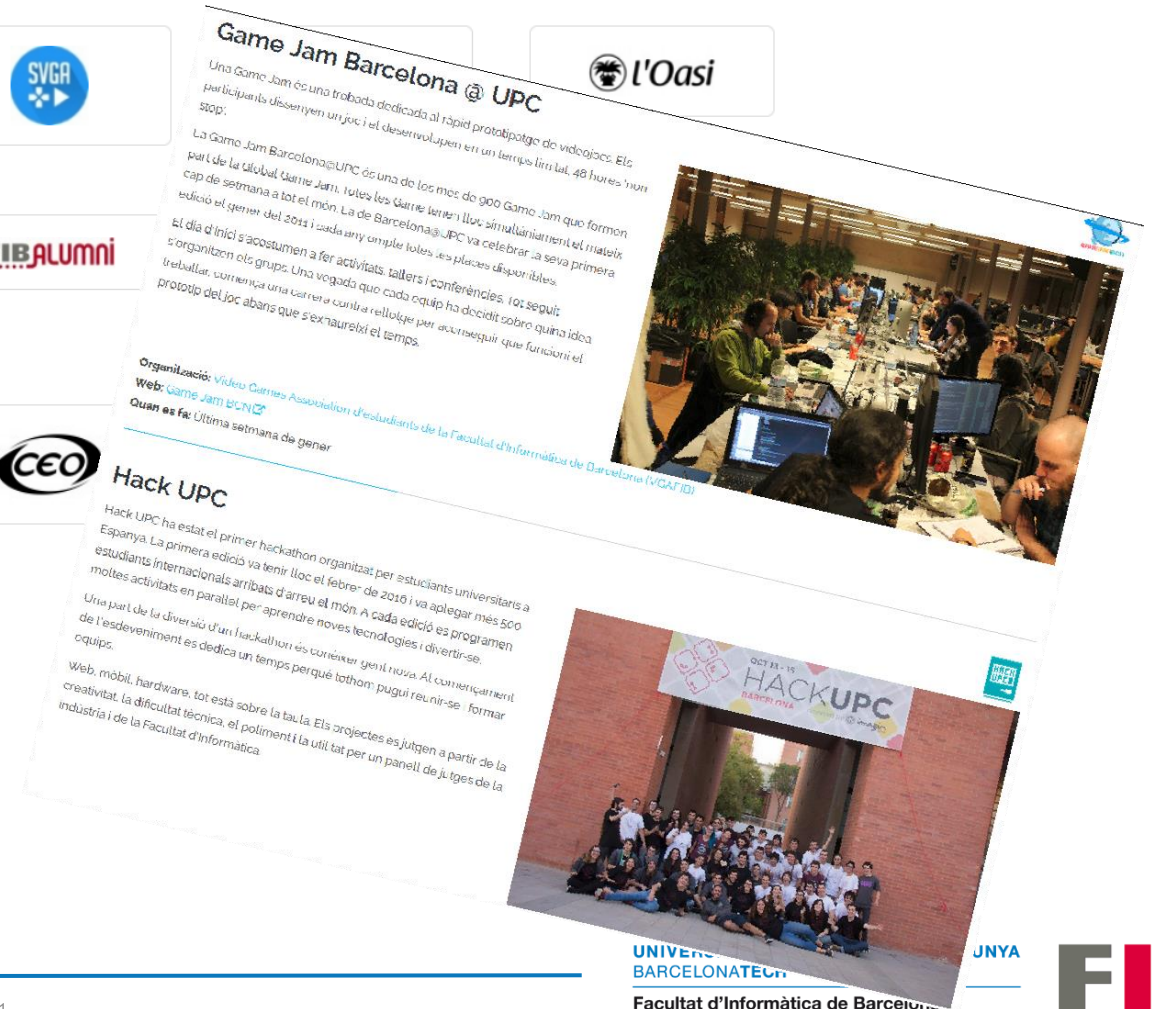
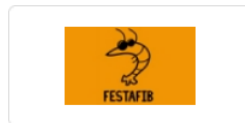
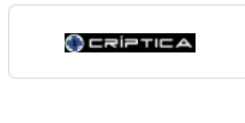
- FIB promotes social activities: <https://www.fib.upc.edu/en/fib/university-life>



Implica't



Viu la FIB



Events

#bitsx
laMarató

Eleventh European Big Data Management & Analytics Summer School (eBISS 2023)
July 3 - July 7, 2023 Barcelona, Spain

HACKATHON

PER LA SALUT CARDIOVASCULAR

16-17-18 desembre 2022

#bits

Fes e

Am

REpte 2023 Design Thinking

COM T'IMAGINES L'EXPERIÈNCIA DE CONDUIR UN CUPRA EN 5 ANYS?
Cerquem la IDEA que revolucioni l'experiència de conducció de CUPRA, així com el model de negoci.

INSCRIU-TE AL REpte



WOMEN IN DATA SCIENCE
BARCELONA

Sala d'actes de la FIB
20 d'abril de 2022, 9:30-14:30



Top Rosies Talent

ADVANCED
FACTORIES
EXPO & CONGRESS

A new age in
automation technology

18-20 abril 2023 | Fira de Barcelona

www.advancedfactories.com



UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH

UNIVERSITAT POLITÈCNICA DE CATALUNYA
BARCELONATECH
Facultat d'Informàtica de Barcelona



Services

- Equal opportunities: <https://igualtat.upc.edu/>
 - Bullying
 - Gender equality
 - Transgender community
- Inclusion: <https://inclusio.upc.edu/>
 - Learning needs
 - Teaching support
 - Psychologic orientation
- Solidarity and cooperation: <https://ccd.upc.edu/>
- Learning languages: <https://www.upc.edu/slt/en/reception/languages-upc>
- Cultural reception: <https://www.upc.edu/slt/en/reception>
- Libraries
- Sports Club
- UPCArts

<https://www.upc.edu/en/university-life-and-services>

Index

- Facultat d'Informàtica de Barcelona
- MEI Master
 - Industrial Modality
 - Internships
 - Mobility
- Enrolment Procedure
- Grants and Aids
- Social Life
- FAQs

FAQs

- **If I'm finishing my undergraduate studies this year, can I apply to a master?**

Of course! You can be admitted. You only need to finish on time your registration in September. Indeed, if you finalize your bachelor thesis in October you can yet be admitted in our masters. Contact us for more details.

- **Can I change to MEI industrial modality if I started the regular one?**

Yes. Indeed, the industrial modality is thought to help students accommodate their studies with their jobs / internships

- **What about next academic course and covid-19?**

Our objective are 100% face-to-face lectures. If not possible due to public health recommendations, we will maximise face-to-face / hybrid lectures.

- **For new incoming students... what about enrolment?**

Registration has been online in the last courses. If you require to hand in some documentation you can do later before the lectures start



FIB MASTERS

Do you have further questions?
Do not hesitate to contact us at
info.masters@fib.upc.edu