



# FIB MASTERS

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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

- 24,356 bachelor's students
- 6,081 master's degree students
- 2,104 doctoral degree students
- 2,978 lifelong learning students
- 3,629 teaching and research staff members
- 1,989 administrative and service staff
- 87,538 UPC alumni members
- 294 doctoral theses defended
- 2,487 graduates of master's degrees
- 3,449 graduates of bachelor's degrees

### Knowledge

- 67 bachelor's degrees 2024-2025
- 91 master's programmes 2024-2025
- 45 doctoral programmes 2024-2025
- 240 continuing education programmes
- 13 patents
- 41 technology companies in which the UPC has a shareholding
- 234 scientific and technical awards received
- 2,362 articles published in scientific journals
- €80,914,453 turnover for R&D projects (2022)

### UPC in the world

- 5,119 students participating in educational cooperation agreements with companies
- 18 company chairs
- 13 companies set up last year
- 2,834 companies and other entities that have signed collaboration agreements with the UPC
- 44 international double-degree agreements with 30 universities
- 2,940 students in international mobility programmes
- 1,414 UPC students (outgoing)
- 1,526 mobility students at the UPC (incoming)
- 54 development cooperation projects
- 15 international networks with the UPC as a member
- 4 UNESCO chairs

# About FIB

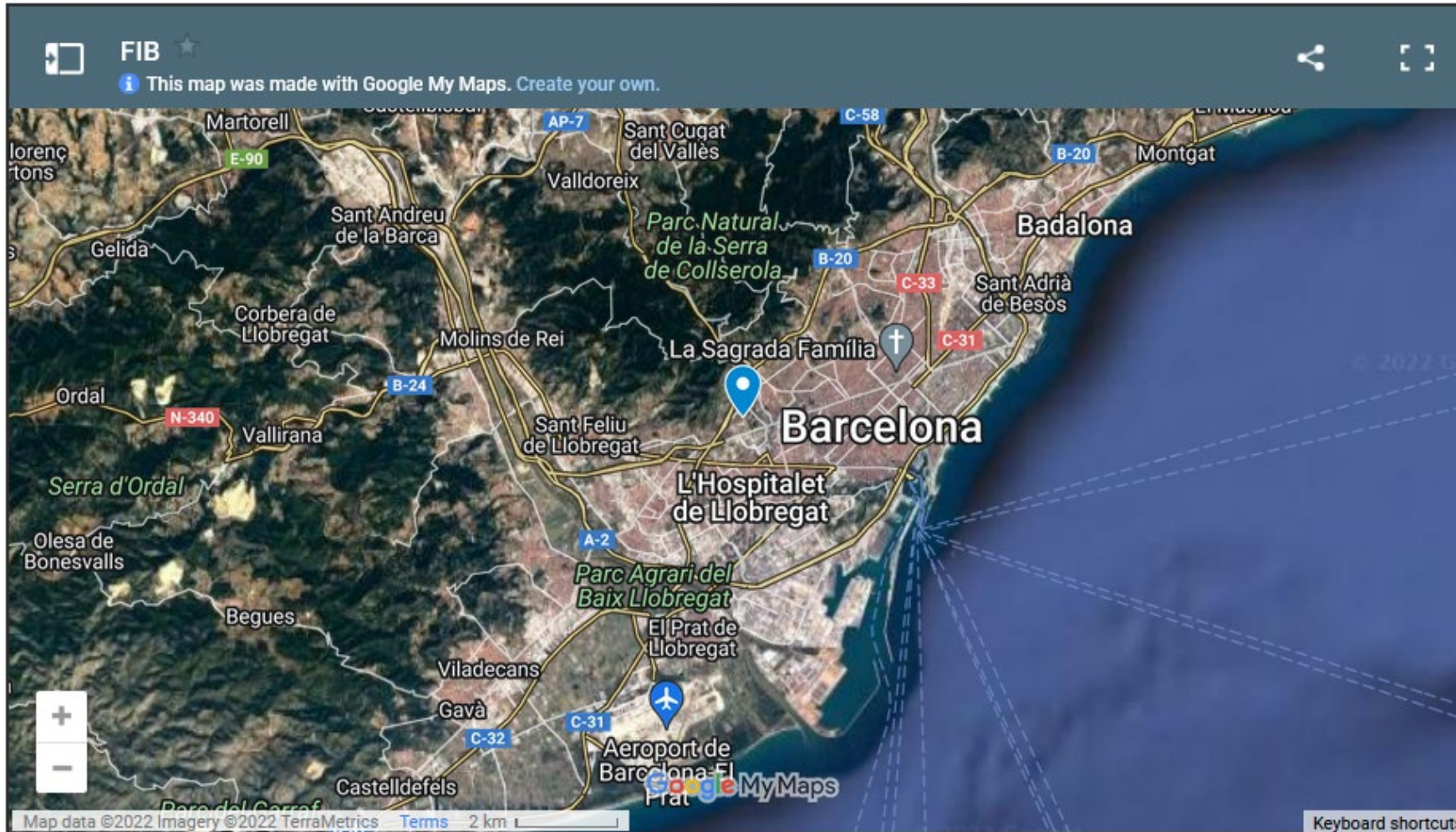
The Facultat d'Informàtica de Barcelona (Barcelona School of Informatics) belongs to UPC and it is the reference centre for Informatics studies since its inception in 1976, and the beginning of the educational activities during 1977-1978.

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: Where?



## Address

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

## Contact

Email: [Info.masters@fib.upc.edu](mailto: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://twitter.com/fib_upc)

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

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



# 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**
  - Applied knowledge
- Promoting **effective working habits, excellence and team working**
- Stimulating their students' **ability of self-sufficiency**

# 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/ENQA and allows supervising the performance of studies and informs the society about its quality.
  - MEI, MIRI and MAI obtained the maximum quality label **AQU-Excellence**
  - MDS started in September 2021 and has not been externally evaluated yet. Relevantly, MDS is the local counterpart of the BDMA Erasmus Mundus master which is certified by the European Education and Culture Executive Agency (EACEA) as an **excellence and reference programme**.
- What aspects do quality agencies highlight about our masters:
  - Programme learning outcomes
  - Teaching staff
  - Learning support services and resources

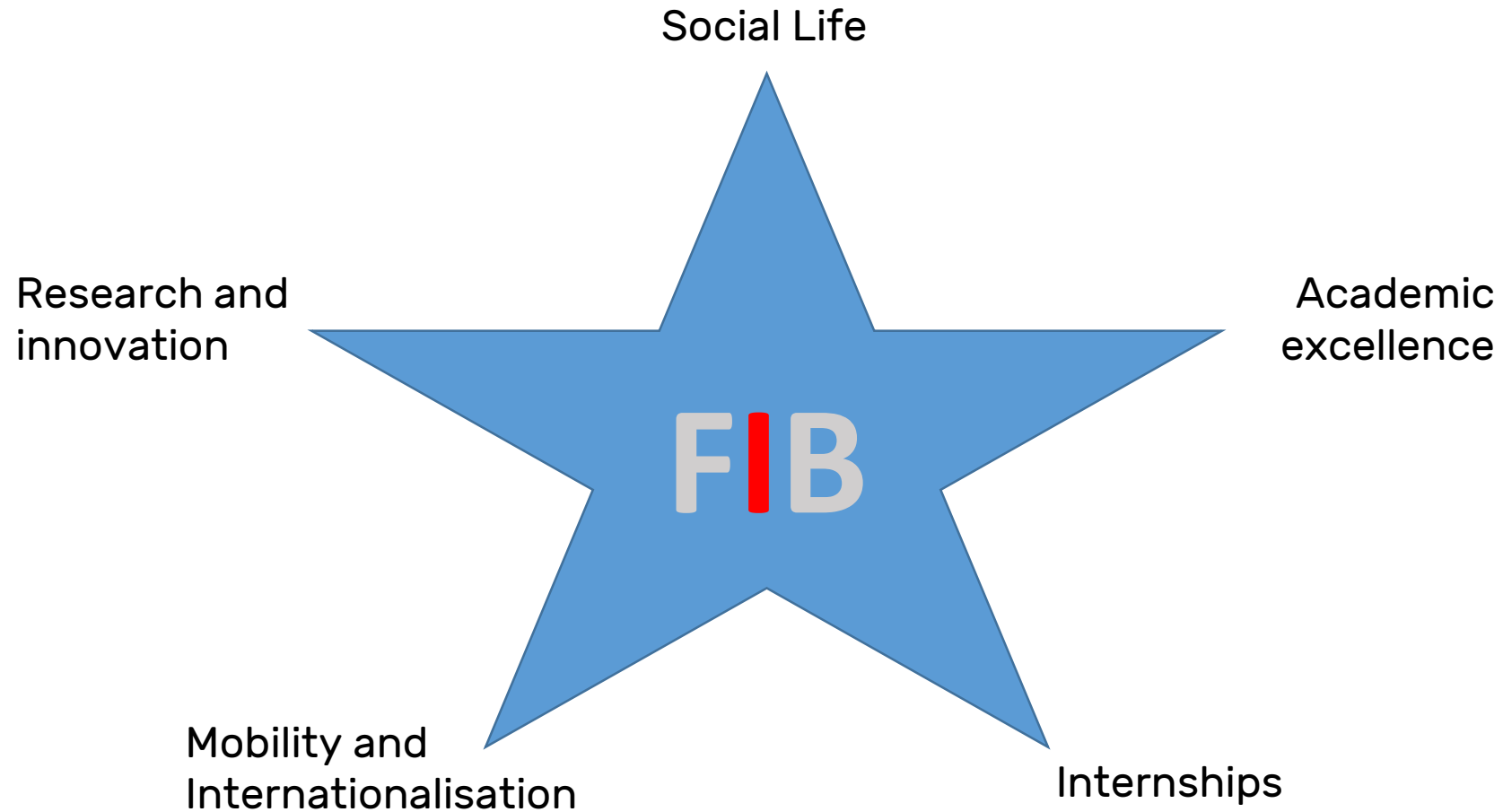
# FIB: Why?

- 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

## 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: How?



<https://masters.fib.upc.edu/>



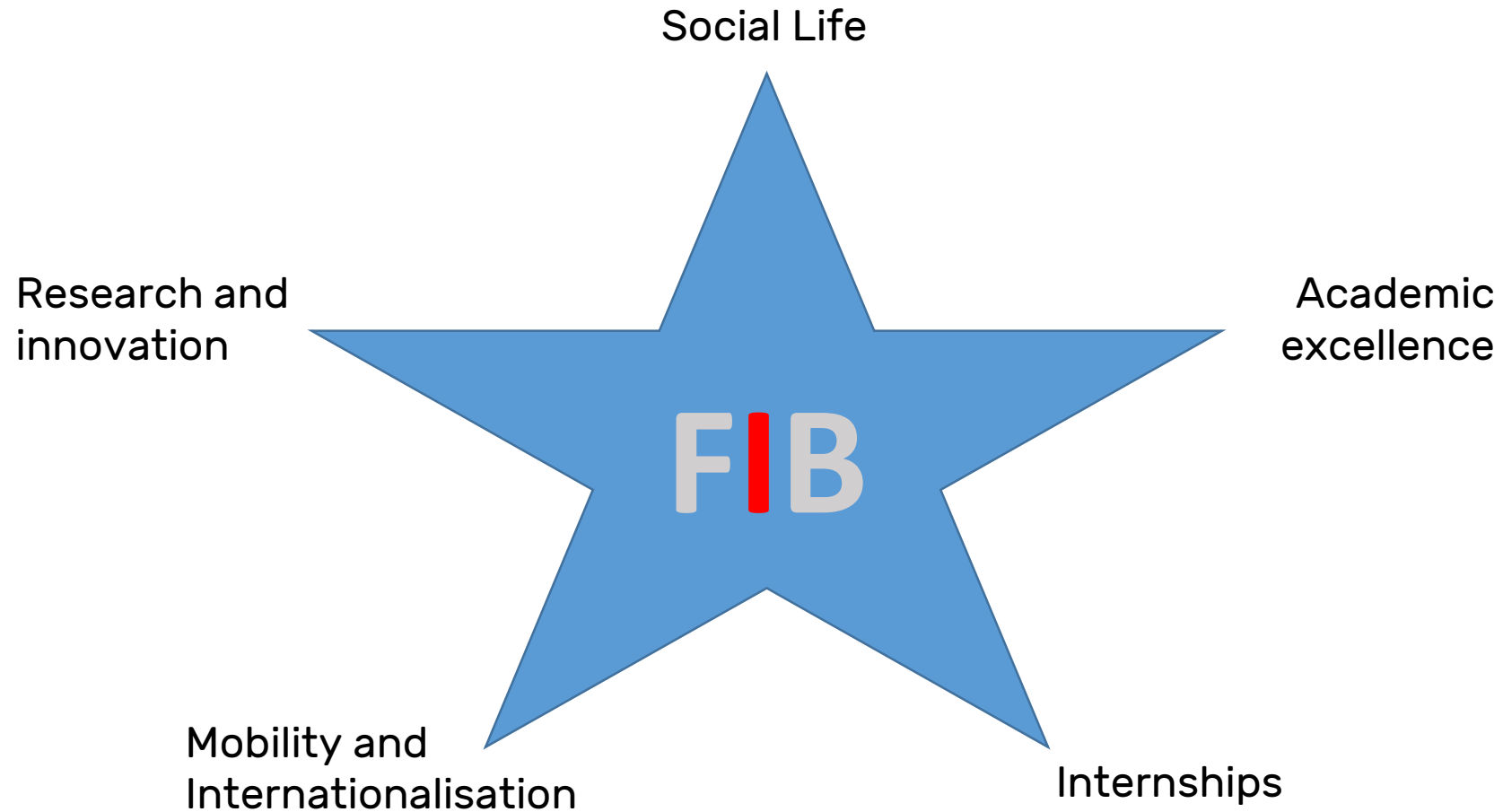
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# FIB Masters: MEI, MIRI, MDS, MAI (plus BDMA and EU4HPC)

Quick Summary

# FIB Masters



<https://masters.fib.upc.edu/>

# FIB Masters

- Master in Artificial Intelligence (MAI)
- Master in Informatics Engineering (MEI)
  - Master in Informatics Engineering – Industrial Modality
- Master in Innovation and Research in Informatics (MIRI)
  - Advanced Computing
  - Computer Graphics and Virtual Reality
  - Computer Networks and Distributed Systems
  - High-Performance Computing
- Master in Data Science (MDS)
- Erasmus Mundus Master in Big Data Management and Analytics (BDMA)
- EU Master in High Performance Computing (EU4HPC)

<https://www.fib.upc.edu/en/studies/masters/do-you-want-study-master-degree/masters-information-sessions>



# 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 years – 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>

# MEI – Industrial Modality



*Delivers the same MEI title (all information from previous slide holds), but thought for people taking the master part-time while at a company*

- *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	Internship or working experience
S2	VPEI+FPEI, DGSI, ISDCM +7,5 ECTS (3 elective courses)	VPEI+FPEI, DGSI, ISDCM	Internship or working experience
S3	Master Thesis	SEU, ACAP	Internship or working experience
S4		Master Thesis (B or D modality)	

## ECTS (industrial modality)

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

**Total: 90 ECTS**

# MIRI: Master in Innovation and Research in Informatics

*This master offers a strong and rigorous background in research and innovation in 4 fields of informatics:*

- *Advanced Computing (AC),*
- *Computer Graphics and Virtual Reality (CGVR),*
- *Computer Networks and Distributed Systems (CNDS),*
- *High-Performance Computing (HPC).*
- Accreditations: EQUAINE, AQU-Excellence
- Language: English (B2)
- 120 ECTS: 2 years
  - 30 Common compulsory
  - 48 Specialisation (4 specialisations)
  - 12 Electives
  - 30 Master thesis
- 4 Specialisations:
  - AC: <https://masters.fib.upc.edu/masters/miri-advanced-computing>
  - CGVR: <https://masters.fib.upc.edu/masters/miri-computer-graphics-and-virtual-reality>
  - CNDS: <https://masters.fib.upc.edu/masters/miri-computer-networks-and-distributed-systems>
  - HPC: <https://masters.fib.upc.edu/masters/miri-high-performance-computing>
- Industrial Agreements – Curricular Internships, Professional Experience (elective ECTS)
- Complementary courses might be required



AQU Catalunya està inscrita a EQAR



# MDS: Master in Data Science



*This master offers a unique interdisciplinary syllabus to unlock data value in a systematic, rigorous and scalable manner*

- **Data Management** data lifecycle (data flows, databases, systems; including Big Data scenarios)
- **Data Analytics** data analysis and visualization (data mining and machine learning)
- Accreditations: Local implementation of the Erasmus Mundus Master in Big Data Management and Analytics (European reference programme in Data Science) – EACEA certified
- Language: English (B2)
- 120 ECTS: 2 years
  - 54 Compulsory
  - 36 Elective (among three blocks)
  - 30 Master thesis
- 3 main specialisation blocks:
  - Deep Dive in Specific Aspects of Data Science
  - Applications of Data Science for Specific Domains (e.g., Bioinformatics, Health, Transportation, etc.)
  - Innovation and Research
- Extracurricular Internships and Curricular Master Thesis internships
- No complementary courses considered

<https://masters.fib.upc.edu/masters/master-data-science>

# MAI: Interuniversity Master in Artificial Intelligence

*This master offers an integrative and cutting-edge approach to the field and its application to real scenarios*

- Jointly offered with Universitat de Barcelona (UB) and Universitat Rovira i Virgili (URV)
  - Lectures in the three campuses (one day per week students must go to URV in Tarragona)
- Accreditations: AQU-Excellence, AQU-Internationalization
- Language: English (B2)
- 90 ECTS : 1.5 years
  - 30 Compulsory
  - 42 Elective (among the intensifications)
  - 18 Master thesis
- 7 intensifications (not chosen at admission time) – implemented as elective courses
  - Data Science and Computational Intelligence;
  - Multi-Agent Systems;
  - Human-Computer Interaction;
  - Hot Topics in AI and Professional Practice;
  - Knowledge Engineering and Machine learning;
  - Modeling, Reasoning and Problem Solving;
  - Vision, Perception and Robotics. Assistive Technologies
- Industrial Agreements – Curricular Internships, Professional Experience (elective ECTS)
- Complementary courses might be required

<https://masters.fib.upc.edu/masters/master-artificial-intelligence>



AQU Catalunya està inscrita a EQAR

# Other Masters: BDMA

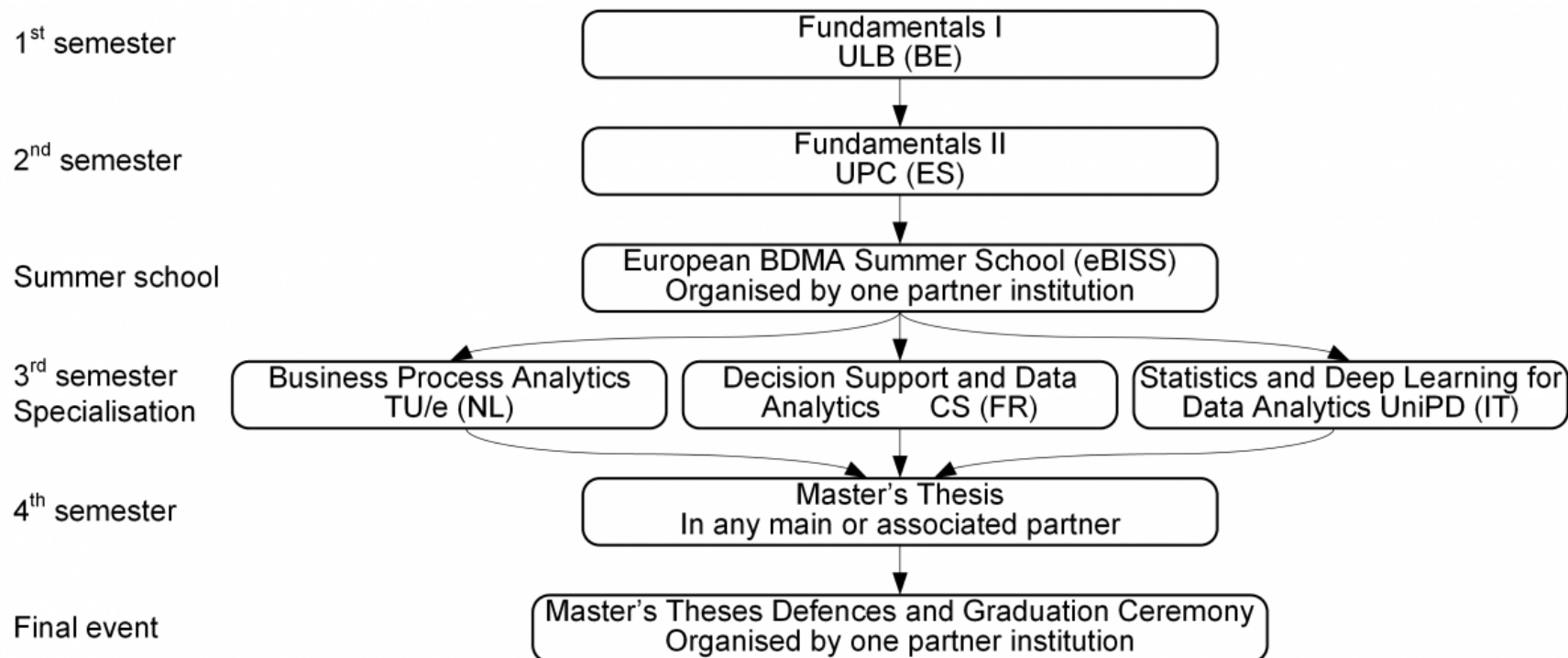


- Erasmus Mundus in Big Data Management and Analytics (BDMA)
- Coordinated by Université Libre de Bruxelles and 4 additional European Universities: UPC, Università di Padova, Technical University of Eindhoven and Paris-Saclay - CentraleSupélec
- Accreditations: EACEA flagship master in Big Data and Data Science
  - EACEA grants (very competitive): September to mid December (*already passed*)
  - Self-funded period: from March to June (open)
- 120 ECTS: 2 years
  - 60 compulsory
  - 30 specialisation (business process analytics, decision support and data analytics and statistics and deep learning for data analytics)
  - 30 Master thesis

<https://bdma.ulb.ac.be/>

# Other Masters: BDMA

Apply at: <https://cs.ulb.ac.be/emundus/>





# Other Masters: EU4HPC

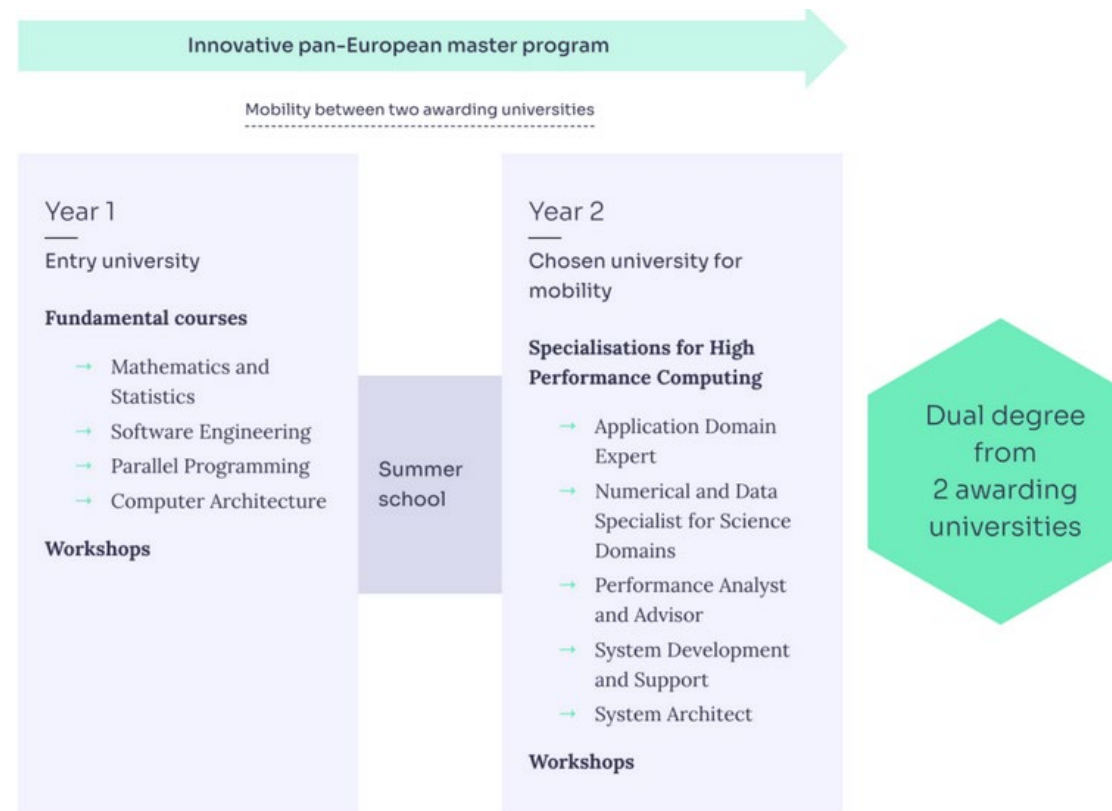


- European Master for High Performance Computing
  - Coordinated by Université du Luxembourg and 7 additional European Universities: UPC, Politecnico de Milano, Friedrich-Alexander Universität Erlangen-Nürnberg, Sorbonne Université, Sofia University, Università della Svizzera Italiana, Kungliga Tekniska Högskolan
  - Implemented as dual degree
  - Consortium grants: fee waiving (for eligible students) + mobility scholarship
  - Accreditations: H2020 Framework Programme (EuroHPC)
  - Application: two independent steps with different deadlines (not necessarily one after the other)
    - EUMaster4HPC (scholarships): <https://www.eumaster4hpc.tf.fau.eu/>
    - Entry university (local master programme): [https://www.eumaster4hpc.tf.fau.eu/#collapse\\_1](https://www.eumaster4hpc.tf.fau.eu/#collapse_1)
  - EUMaster4HPC
    - 1st Period: 24th November to 14th December (passed)
    - 2nd Period: 8th January to 31st March (open) – note that the UPC deadline is earlier and you must apply to MIRI-HPC in parallel on time!
  - 120 ECTS: 2 years
    - 12 months fundamental courses
    - 6 months specialization
    - 6 months internship
    - Mandatory summer school
- Mobility scheme among partners according to academic paths identified

<https://eumaster4hpc.uni.lu/>

# Other Masters: EU4HPC

## Implemented as dual degrees:



<https://eumaster4hpc.uni.lu/>

# How to Navigate the FIB Websites


- Overall view: <https://masters.fib.upc.edu/>
  - Video with this information session recorded
  - For each master
    - Video of the specific information session (only for MEI, MIRI, MDS)
    - Why this master
    - Curriculum
    - Employment opportunities
    - Admission
    - Faculty
  - International prestige
  - Grants
  - About Barcelona
- Specific details per master: <https://www.fib.upc.edu/en/studies/masters/>
  - Enrolment
  - Detailed curriculum / syllabus
  - Academic regulations
  - Timetables and Exams
- Administrative procedures: <https://www.fib.upc.edu/en/studies/academic-management>
- Academic calendars: <https://www.fib.upc.edu/en/studies/academic-management/academic-calendars>

# <https://masters.fib.upc.edu/>



The pre-enrolment is **open from 26 February to 26 May 2024**. It is divided into two periods:

- 1st period. From 26 February to 18 April.
- 2nd period. From 22 April to 26 May.

 [Check our grants opportunities](#)

Do you want to attend our **information sessions**? [Sign up for them!](#)



## General information sessions 2024

All general sessions will include MEI, MIRI, MAI and MDS.

- Tuesday 19 March, 4 pm - [sign up!](#)
- Tuesday 7 May, 12 pm - [sign up!](#)

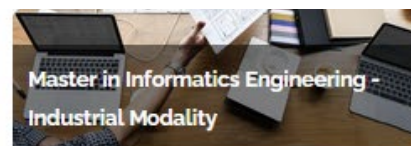
## Specific information sessions 2024

All specified sessions will treat a specific master.

- MEI - ~~Tuesday 9 April, 4 pm~~ - [sign up!](#) **Change of date** to Friday 12 April, 4 pm
- MIRI - Tuesday 16 April, 12 pm - [sign up!](#)
- MDS - Tuesday 16 April, 4 pm - [sign up!](#)

The sessions will be held in English, except for the specific MEI session, which will be in Catalan/Spanish.

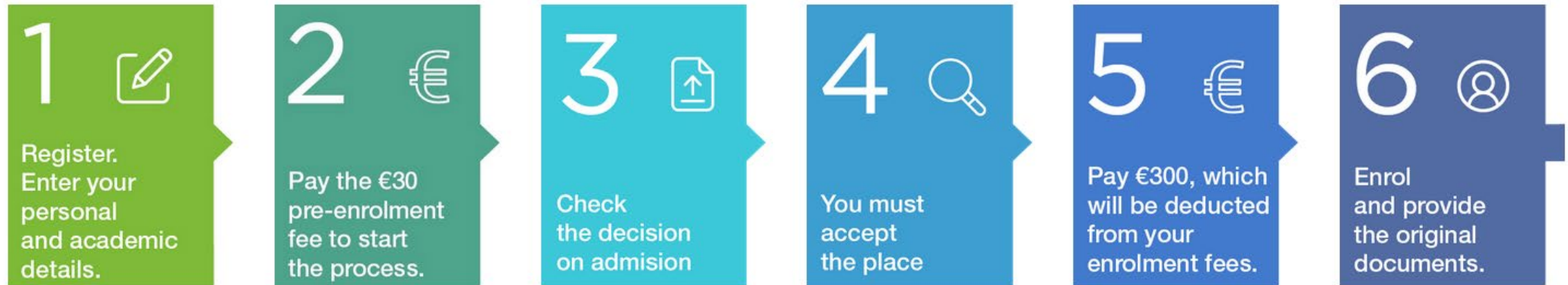
**MEI:** Master in Informatics Engineering; **MIRI:** Master in Innovation and Research in Informatics; **MAI:** Master in Artificial Intelligence; **MDS:** Master in Data Science



# 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>

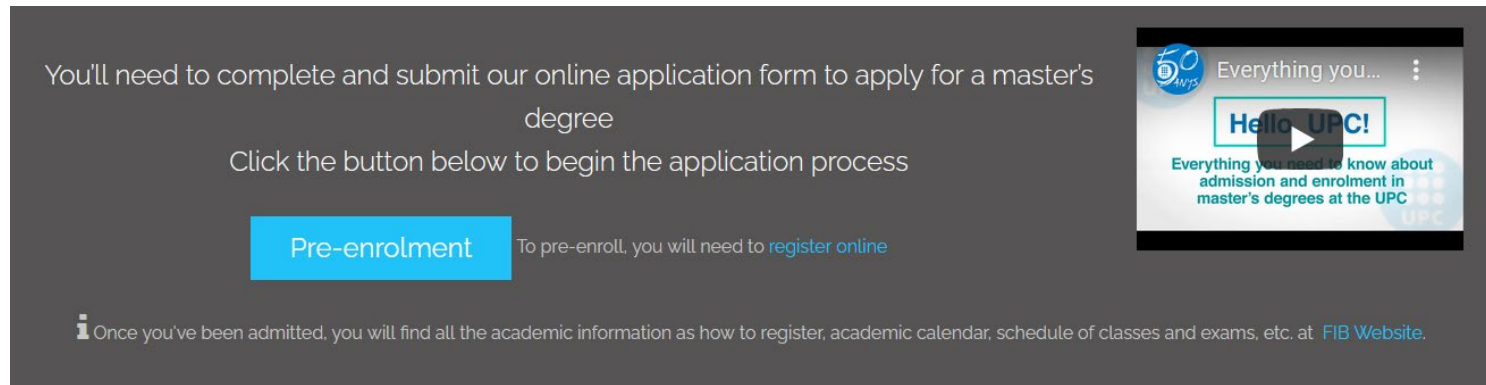
# Important Dates

- **Pre-enrolment**: From 26<sup>th</sup> February to 26<sup>th</sup> May 2024
- Two (three) **admission** periods:
  - First period:
    - Deadline to apply: 18<sup>th</sup> April 2024
    - Tentative admission notification: 28<sup>th</sup> April 2024 (2<sup>nd</sup> May 2024)
  - Second period:
    - Deadline to apply: 26<sup>th</sup> May 2024
    - Tentative admission notification: 2<sup>nd</sup> June 2024 (9<sup>th</sup> June 2024)
  - *Third period*:
    - *Not guaranteed, only if seats available*
    - *Tentative deadline: 30<sup>th</sup> June 2024*
    - *Tentative admission notification: 7<sup>th</sup> July 2024*
- Check the specific website of each master to know about its **admission** criteria:  
[masters.fib.upc.edu](https://masters.fib.upc.edu)



# Pre-enrolment

- Start the procedure from the [masters.fib.upc.edu](https://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). **The button to pay the tax does not appear until all required data is introduced**

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

# Admission

- Depending on your pre-enrolment data your application will be evaluated within the first or second period.
- Evaluation outcome:
  - First period: **accept, postpone, reject**
  - Second period: **accept, waiting list, reject**
- **Accepted** applications are contacted and informed about all relevant academic information as how to **register**, academic calendar, schedule of classes and exams, etc.
  - All this information is already available at [FIB Website](#).
  - Before registration, you must pay 300€ (tax) to guarantee your place (this money is later deduced from the registration cost).
- **Postponed** applications get their final decision during the second period.
- **Waiting list** applications are contacted in order if drop outs happen.
- **Rejected** applications are not accepted to follow that program.

# Administrative and Academic Contacts

- General:
  - Information: [info.masters@fib.upc.edu](mailto:info.masters@fib.upc.edu)
  - Specific academic questions:
    - MAI: Ulises Cortés ([ia@cs.upc.edu](mailto:ia@cs.upc.edu))
    - MEI, BDMA, MDS: Òscar Romero ([vd.postgrau@fib.upc.edu](mailto:vd.postgrau@fib.upc.edu))
    - MIRI-AC: Amalia Duch ([duch@cs.upc.edu](mailto:duch@cs.upc.edu))
    - MIRI-CGVR: Nuria Pelechano ([npelechano@cs.upc.edu](mailto:npelechano@cs.upc.edu))
    - MIRI-CNDS: José M. Barceló ([joseb@ac.upc.edu](mailto:joseb@ac.upc.edu))
    - MIRI-HPC, EU4HPC: Josep Llosa ([josepll@ac.upc.edu](mailto:josepll@ac.upc.edu))

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# Prices

## Prices 2023/24 for European Union applicants

- MEI: 18,46€ / ECTS
- MIRI, MDS, MAI, EU4HPC: 27,67€ / ECTS
- BDMA: 75€ / ECTS (*price for programme\* countries*)

\*Programme countries: EU countries plus Turkey, the former Yugoslav Republic of Macedonia (FYROM), Iceland, Liechtenstein, Serbia and Norway

## Prices 2023/24 for Non-European Union applicants

- MEI, MIRI, MDS, MAI, EU4HPC: 102,52€ / ECTS
- BDMA: 150€ / ECTS

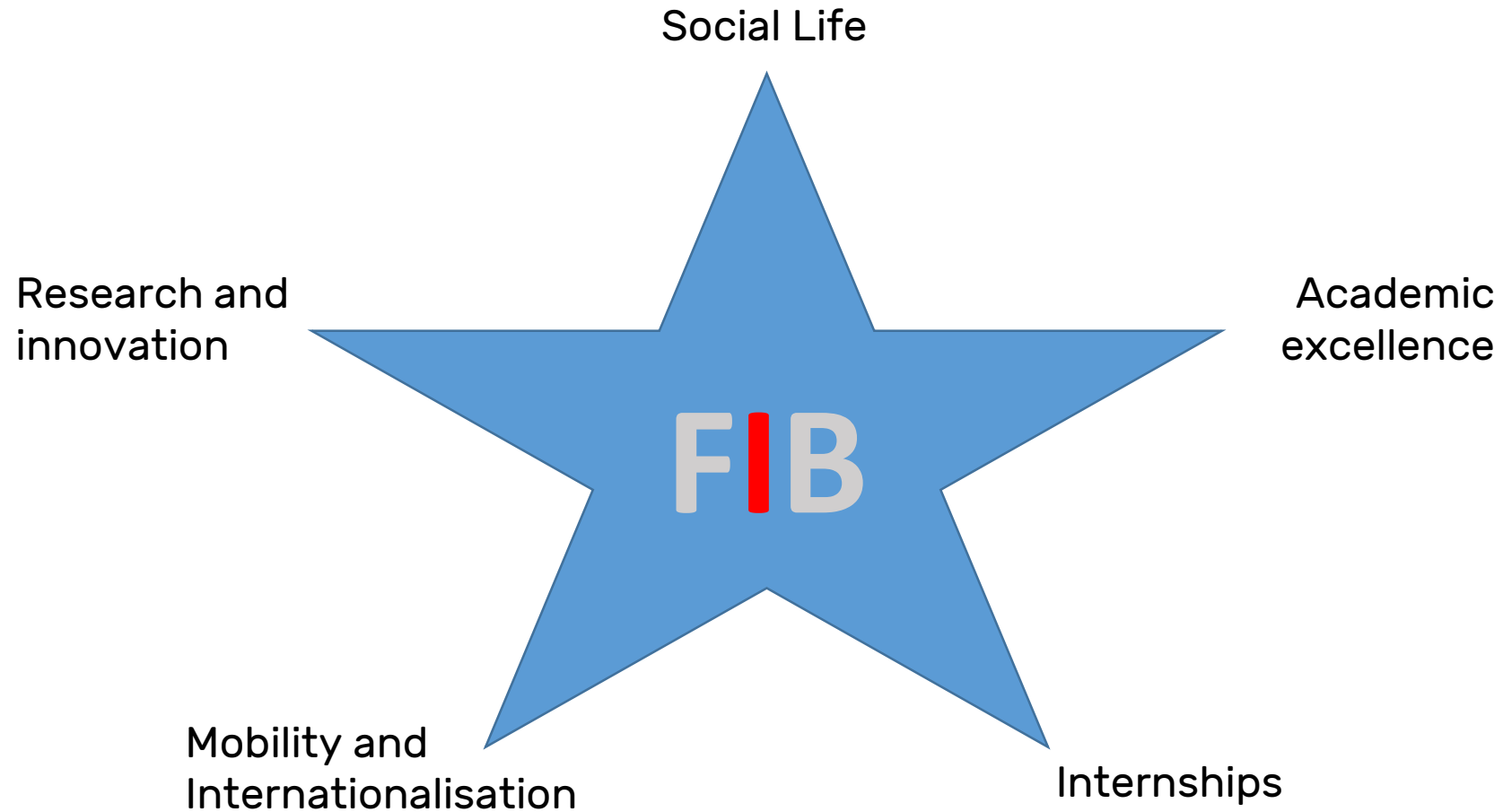
**Note:** prices for 2024/2025 will be published in July. Once published, UPC list the prices here: <https://www.upc.edu/en/masters/fees-grants>

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# FIB Masters



<https://masters.fib.upc.edu/>

# 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

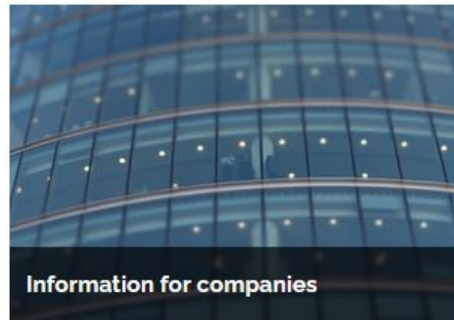
Offers list

Posting offers

Job Placements

FIB Visions

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 with companies having an Industrial Agreement with FIB

- Extracurricular Practices:
  - NO Elective credits
  - MDS only accepts this type of practices (except for the Master Thesis: modality B or D)
- Curricular Practices:
  - Elective ECTS (6 minimum, 12 maximum) [+ Master Thesis ECTS]
  - 30 hours → 1 ECTS
  - Master Thesis (Modality B or D) – all masters

Limit of CCE hours per degree:

- Hours per year
  - Maximum: 900 hours for MAI and MEI (90 ECTS master)
  - Maximum: 1200 hours for MIRI and MDS (120 ECTS master)

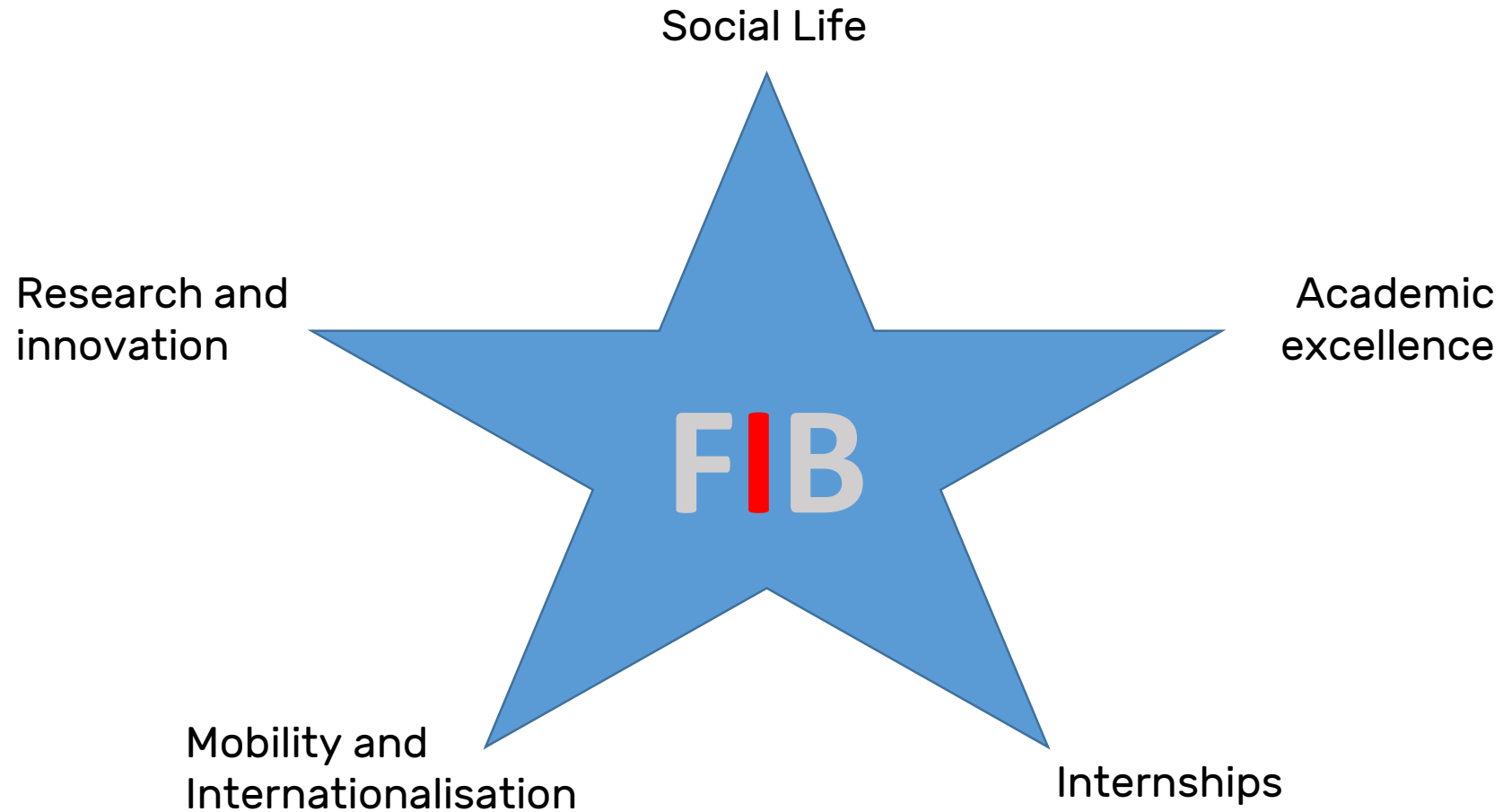
Professional Experience as elective ECTS (work contract):

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

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# FIB Masters



<https://masters.fib.upc.edu/>

# Mobility and Internationalisation

Plenty of options! **205 universities in 42 countries**

- Study abroad (one or two semesters)
  - Conditions (max ECTS): MIRI (12+18+30), MEI (30), MDS (30+30), MAI (12+18)
  - Mobility programs (many with scholarships)
    - CERN
    - Erasmus+
    - UNITECH
    - Latin America, USA and Canada
    - National Institute of Informatics (NII) Tokyo and Vulcanus in Japan
    - China
- 5 Double degrees (8 for next academic year)
- Internship abroad
  - Ever-open calls: Erasmus+, IAESTE, AIESEC, EntryPark
  - Academic institutions
  - Industry
- Other activities (summer schools, short stays...)

**>200 requests  
including bachelor  
and master students  
for 2023/2024**



# 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>

## Calls

✓ Google Summer of Code

✗ Application for a place at Spanish universities in the SICUE programme

✗ Place application for foreign universities: Erasmus+, Latin America, Taiwan, China and double degrees

✗ iWeek a Paris

✗ Application for mobility in the US

✗ Vulcanus programme

✗ Application for a mobility place with the programme UNITECH

✗ Place application for foreign universities: programa Erasmus+, Latin America, CINDA, Canada, Taiwan and China (2nd call)

✗ Application for the National Institute of Informatics (NII) in Tokyo - 1st call

✗ Application for the National Institute of Informatics (NII) in Tokyo - 2nd call

## Periods

📅 19 Mar 24 - 02 Apr 24

📅 19 Feb 24 - 04 Mar 24

📅 17 Feb 24 - 27 Feb 24

📅 10 Jan 24 - 28 Jan 24

📅 01 Dec 23 - 24 Jan 24

📅 14 Nov 22 - 20 Jan 24

📅 16 Nov 23 - 08 Jan 24

📅 13 Sep 23 - 18 Sep 23

📅 13 Apr 23 - 15 May 23

📅 23 Sep 22 - 14 Oct 22

Opened ✓ To be open ⚠ Closed ✗

# Mobility and Internationalisation

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

## Mobility information session 2023-2024

For mobility stays during the academic  
year 2024-2025

### 1st semester

**Wednesday, 15 November 2023**

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: **12:30 pm**

Necessary prior registration: [Register yourself](#)



### 2nd semester

**Wednesday, 14 February 2024**

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 Actes del Vèrtex (North Campus)

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

Necessary prior registration: [Register yourself](#)



Still have doubts?  
Contact us at:  
[rel.int@fib.upc.edu](mailto:rel.int@fib.upc.edu)

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# Grants and Aids

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

## Grants

Allianz Technology Grants (2023-2024)	▼
NTT DATA (2023-2024)	▼
"Nacho Navarro" grants (2023-2024)	▼
Seidor grants (2023-2024)	▼
FIB Visiona - FIB grants (MEI, MIRI and MAI)	▼
Fundació Catalunya-La Pedrera (MIRI)	▼
Fundació Catalunya-La Pedrera (MAI)	▼
Accenture - Barcelona Digital Talent grants	▼

## Scholarships

ARCO Scholarships for MIRI Students	▼
CBA scholarships in AI for networking for MIRI Students	▼
inLab FIB	▼
NaNoNetworking Center in Catalunya (N3Cat) scholarship for MIRI students	▼
SANS scholarship for MIRI and MEI	▼

# Own Grants

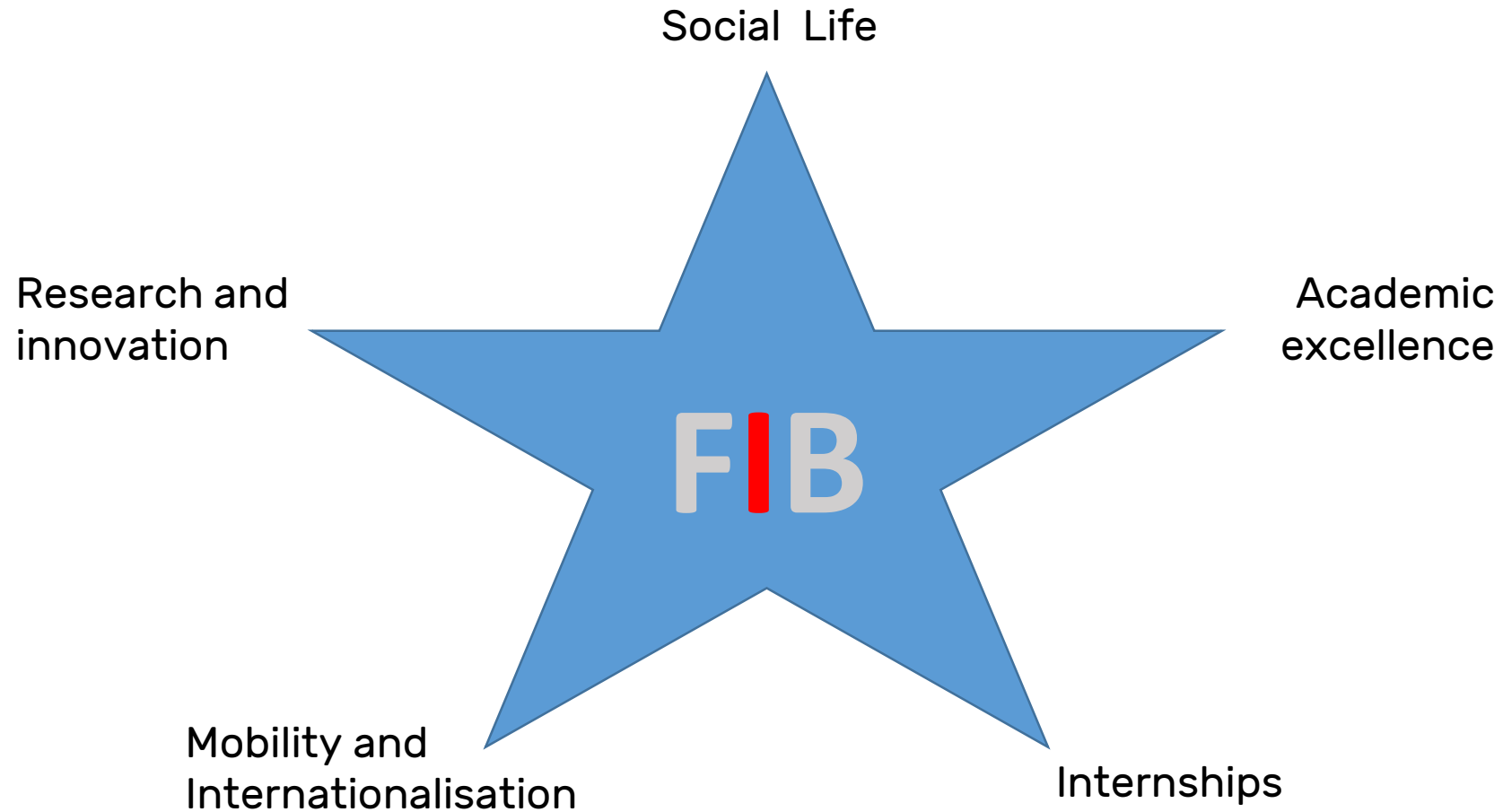
- FIB participates in several consortiums and has strong links with foundations / companies who provide financial aid to our students:
  - BDMA Master (joint degree equivalent to a triple degree)
  - EU4HPC Master (dual degree)
  - NTT Data
  - Seidor
  - Allianz Technology
  - Nacho Navarro
  - FIB Visiona
  - Fundació Catalunya-La Pedrera
  - ...

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# FIB Masters



<https://masters.fib.upc.edu/>

# Research and Innovation

- UPC, and FIB specifically, is a leading research institution
  - Top university obtaining H2020 projects: <https://www.upc.edu/en/press-room/news/the-upc-participates-in-65-of-the-horizon-europe-projects-funded-so-far-leading-12-of-them>
  - Start-ups, spin-offs, innovation and technology transfer: <https://www.upc.edu/en/r-d-i/innovation>
  - UPC's centre for Development Cooperation: <https://www.upc.edu/ccd/en>
- Complement your time during the masters with added-value tasks!
- One strong aspect of our masters is that our teaching staff are also **researchers** with wide experience on the topics they teach
  - Belong to different departments and research groups
  - Have strong networks with researchers all over the world
    - You may want to do research under international mobility
- Formalise your research experience with **research grants** or **CCE agreements**
- Areas covered by our research groups:
  - Mathematics (MA)
  - Business Administration (OE)
  - Computer Architecture (AC)
  - Physics (FIS)
  - Services and Information Systems Engineering (ESSI)
  - Computer Science (CS)
  - Statistics and Operational Research (EIO)
  - Systems Engineering, Automatic Control and Industrial Informatics (ESAI)

# Research Groups (<https://futur.upc.edu/>)

## Mathematics

- MD: Discrete Mathematics
- DCCG: Computational Geometry and Combinatorial Geometry
- TN: Numbers Theory
- GRTJ: Game Theory
- GRAA: Applied Analysis
- GREC: Knowledge Engineering (with ESAll)
- MMAC: Mathematical Models Applied to Social and Natural Sciences

## Business Administration

- EOLI: Industrial Engineering and Logistics
- GREDIC: Innovation and Knowledge Economy
- LEAN MRG: Lean Management
- CERpIE: Research & Development Centre for Enterprises' Improvement and Innovation

## Services and Information System Engineering

- inSSIDE: integrated Software, Services, Information and Data Engineering
- MPI: Modelling and Processing Information
- DTIM: Database Technologies and Information Management

## Systems Engineering, Automatic Control and Industrial Informatics

- ACES: Advanced Control of Energy Systems
- ACP: Automation and Process Control
- GREC: Knowledge Engineering (with MAll)
- GRINS: Intelligent Robotics and Systems
- NOLIN: Nonlinear Physics and Unbalanced Systems
- SAC: Advanced Control Systems
- SISBIO: Biomedical Signals and Systems
- VIS: Artificial Vision and Intelligent Systems

# Research Groups

## Computer Architecture

- ANA: Advanced Network Architectures
- ARCO: Architectures and Compilers
- CAP: High Performance Computing
- CBA: Broadband Communications Systems
- CNDS: Computer Networks and Distributed Systems
- DAMA: Data Management
- DMAG: Distributed Multimedia Applications

## Physics and Nuclear Engineering

- CS-SIMBIO: Complex Systems - Computer Simulation of Materials and Biological System
- DILAB: Dielectric Material Physics Laboratory
- DONLL: Nonlinear Dynamics, Nonlinear Optics and Lasers
- GAA: Astronomy & Astrophysics
- GCM: Characterization of Materials
- GIEP: Innovative Education in Physics
- GREENER: Studies in Energy and Radiation
- NERG: Nuclear Engineering
- SIMCON: Computer Simulation in Condensed Matter
- GRPFM: Physical Properties of the Materials

## Computer Science

- ALBCOM: Algorithms, Biocomputing, Complexity and Formal Methods
- GIE: Engineering Computing
- GRPLN: Natural Language Processing
- KEMLG: Knowledge Engineering and Machine Learning (with EIO)
- LARCA: Relational Algorithms, Complexity and Learning
- LOGPROG: Logic and Programming
- MOVING: Modelling, Visualization, Interaction and Virtual Reality
- SOCO: Soft Computing
- STH: Sustainability, Technology and Humanities

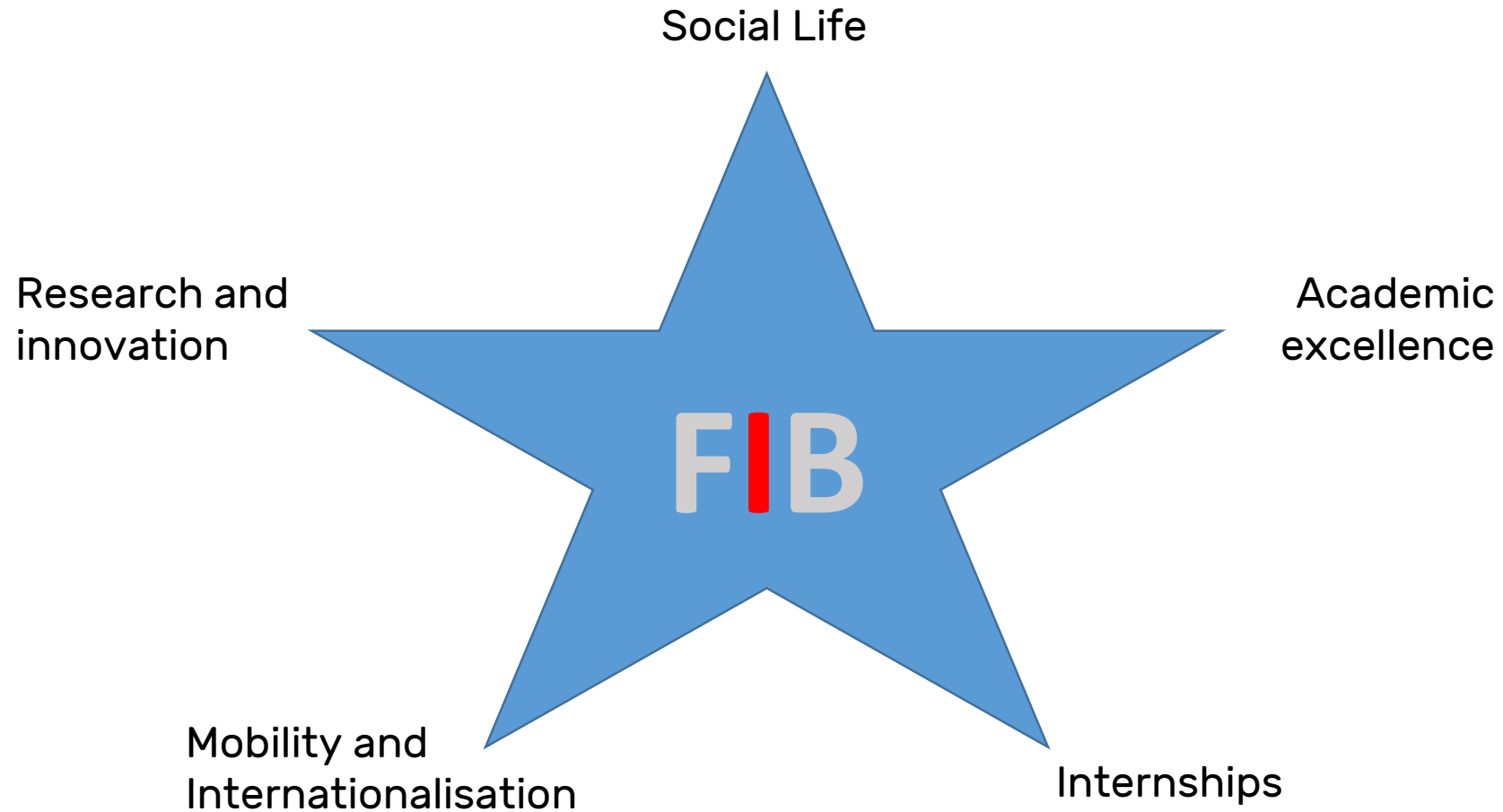
## Statistics and Operational Research

- LAIRE: Laboratory of Aeronautical and Industrial Research and Studies
- GRESA: Applied Statistics
- LIAM: Laboratory of Information Analysis and Modelling
- KEMLG: Knowledge Engineering and Machine Learning (with LSI)
- GRASS: Survival Analysis Statistics
- GREMA: Mathematical Statistics and its Applications
- GNOM: Numerical Optimization and Modelling
- PROMALS: Mathematical Programming, Logistics and Simulation

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# FIB Masters



<https://masters.fib.upc.edu/>

# 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

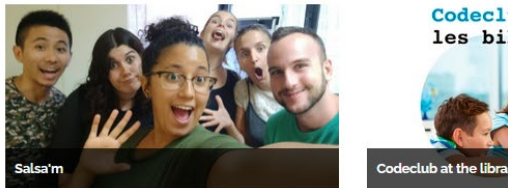
<https://www.upc.edu/en/university-life-and-services>



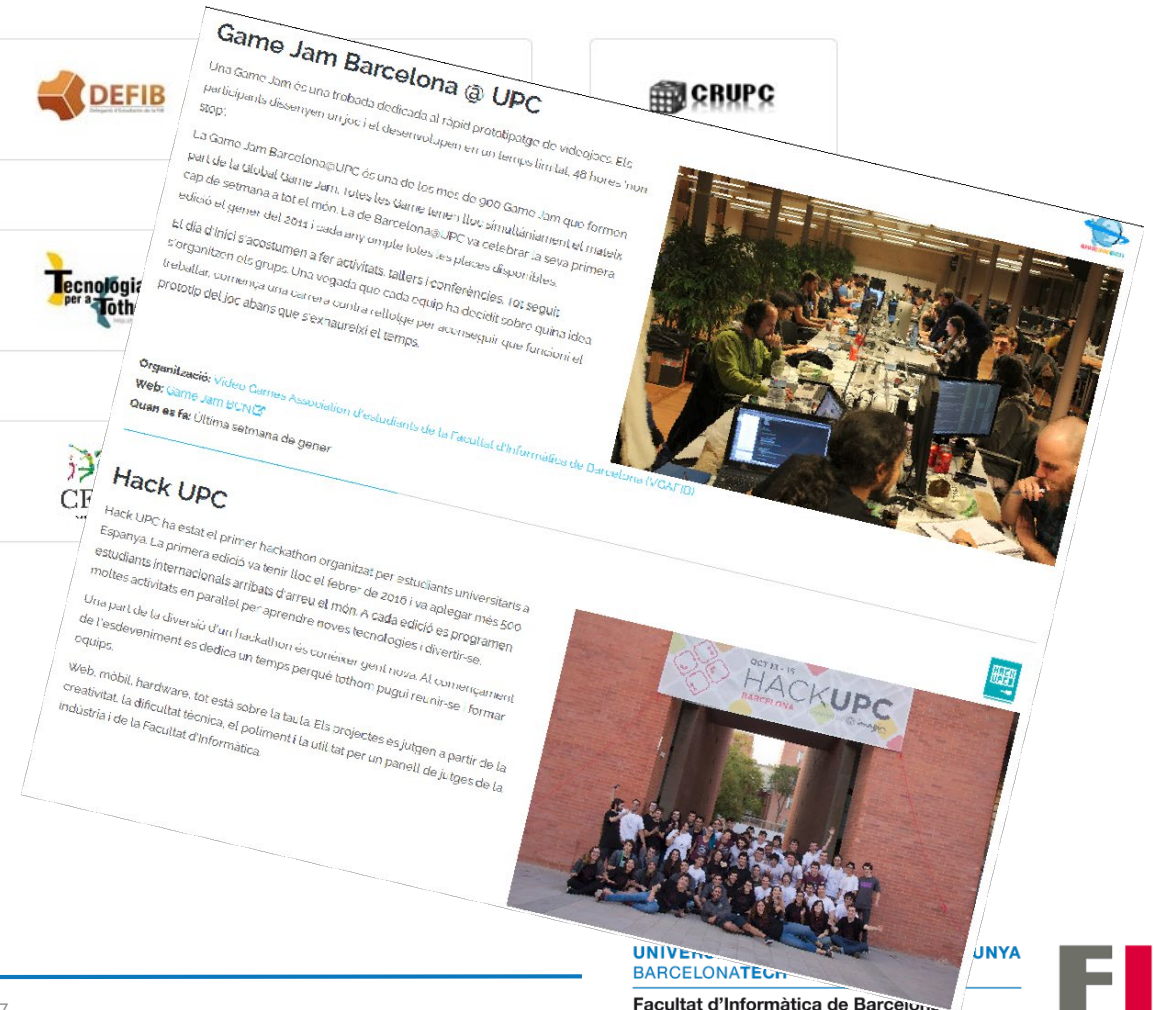
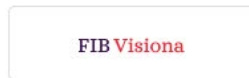
# Social Life

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

Get involved ❤️



## Living the FIB





# Events

#bitsxlaMaratón

Twelfth European Big Data Management & Analytics School (eBISS 2024)

15-16-17 desembre 2023

#bitsxlaMar

Fes el teu donatiu

Amb La

WOMEN IN DATA SCIENCE  
BARCELONA

Padova, Italy

MWC  
GSMA



Sala d'actes at FIB  
April 20, 2023, 9:30-14:30



ADVANCED  
FACTORIES  
EXPO & CONGRESS

April 9-11, 2024  
Fira Barcelona - Gran Vía  
Barcelona, Spain



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# 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 work and study at the same time?**

Of course! there are several opportunities to do extracurricular practices in companies that, in turn, may help you to obtain elective ECTS for some of our masters.

- **Can I take a master part-time?**

You can do it, but be aware that there are some limitations you need to be aware of. Check the administrative procedures and the master regulations for more details.

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

Registration is online. If you require to hand in some documentation you can do it later, before the lectures start in September. Our secretariat will provide more details upon acceptance.





# FIB MASTERS

Do you have further questions?  
Do not hesitate to contact us at  
[info.masters@fib.upc.edu](mailto:info.masters@fib.upc.edu)