



FIB MASTERS

Master in Informatics Engineering (MEI)

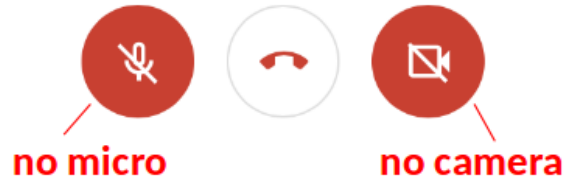
Oscar Romero

Vice-dean of Postgraduate Studies

info.masters@fib.upc.edu

Welcome to FIB Master's Degree Informative Virtual Session

- Please, mute your micro
- Please, turn off your camera
- Only speaker will share screen to present

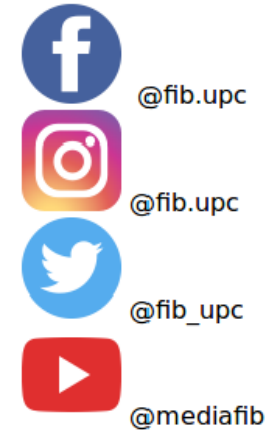


Do not try to present

- Any question should be via chat but let's do it at the end of the talk



This will open lateral chat



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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

UPC Community

- 23,630 bachelor's students
- 5,039 master's degree students
- 2,038 doctoral degree students
- 2,929 lifelong learning students
- 3,459 teaching and research staff members
- 2,061 administrative and service staff
- 69,442 UPC alumni members
- 351 doctoral theses defended
- 2,448 graduates of master's degrees
- 3,476 graduates of bachelor's degrees

Knowledge

- 66 bachelor's degrees 2021-2022
- 81 master's programmes 2021-2022
- 45 doctoral programmes 2021-2022
- 265 continuing education programmes
- 25 patents
- 37 technology companies in which the UPC has a shareholding
- 159 scientific and technical awards received
- 2,273 articles published in scientific journals
- €55,077,585 turnover for R&D projects (2020)

UPC in the world

- 3,823 students participating in educational cooperation agreements with companies
- 13 company chairs
- 13 companies set up last year
- 2,456 companies and other entities that have signed collaboration agreements with the UPC
- 56 international double-degree agreements with 32 universities
- 1,430 students in international mobility programmes
- 787 UPC students (outgoing)
- 643 mobility students at the UPC (incoming)
- 45 development cooperation projects
- 15 international networks with the UPC as a member
- 4 UNESCO chairs

* 2020-2021 academic year

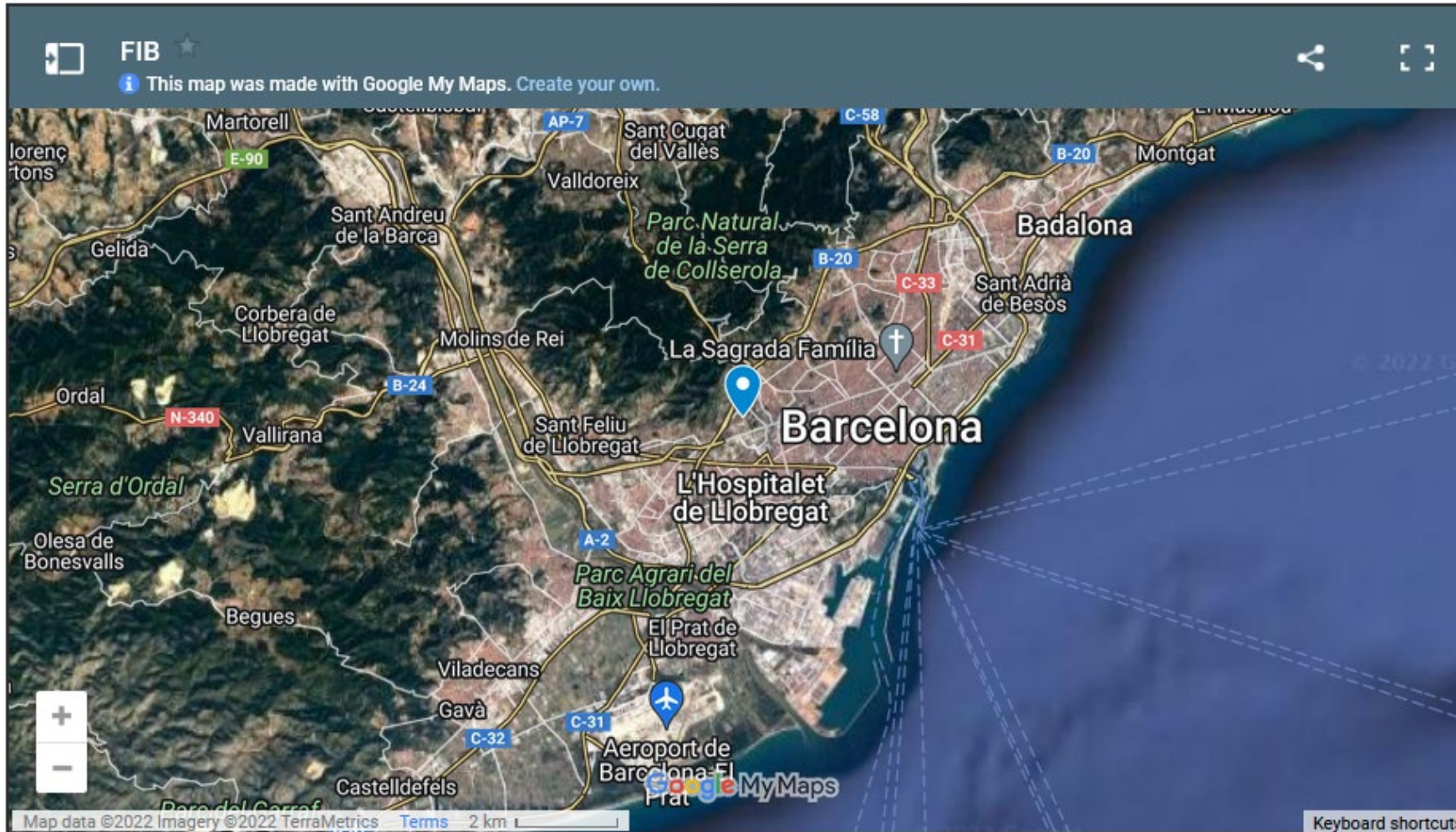
About FIB

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: 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/>

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: 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 obtained the maximum quality label **AQU-Excellence**
- 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.

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?

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- 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 in Numbers

2106

Students

3

Bachelor's degrees

7

Master's degrees

443

Graduates 19-20

40

Years in existence

296

Teaching and research staff

14

Student associations

10170

Total graduates



FIB: Our Reputation

International Rankings

- Times Higher Education – Computer Science: 93
 - 1st in Spain
- QS World University Rankings – Computer Science: 51-100
 - 1st in Spain
- US News Best Global Univ. Rankings – Computer Science: 37
 - 1st in Spain

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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.

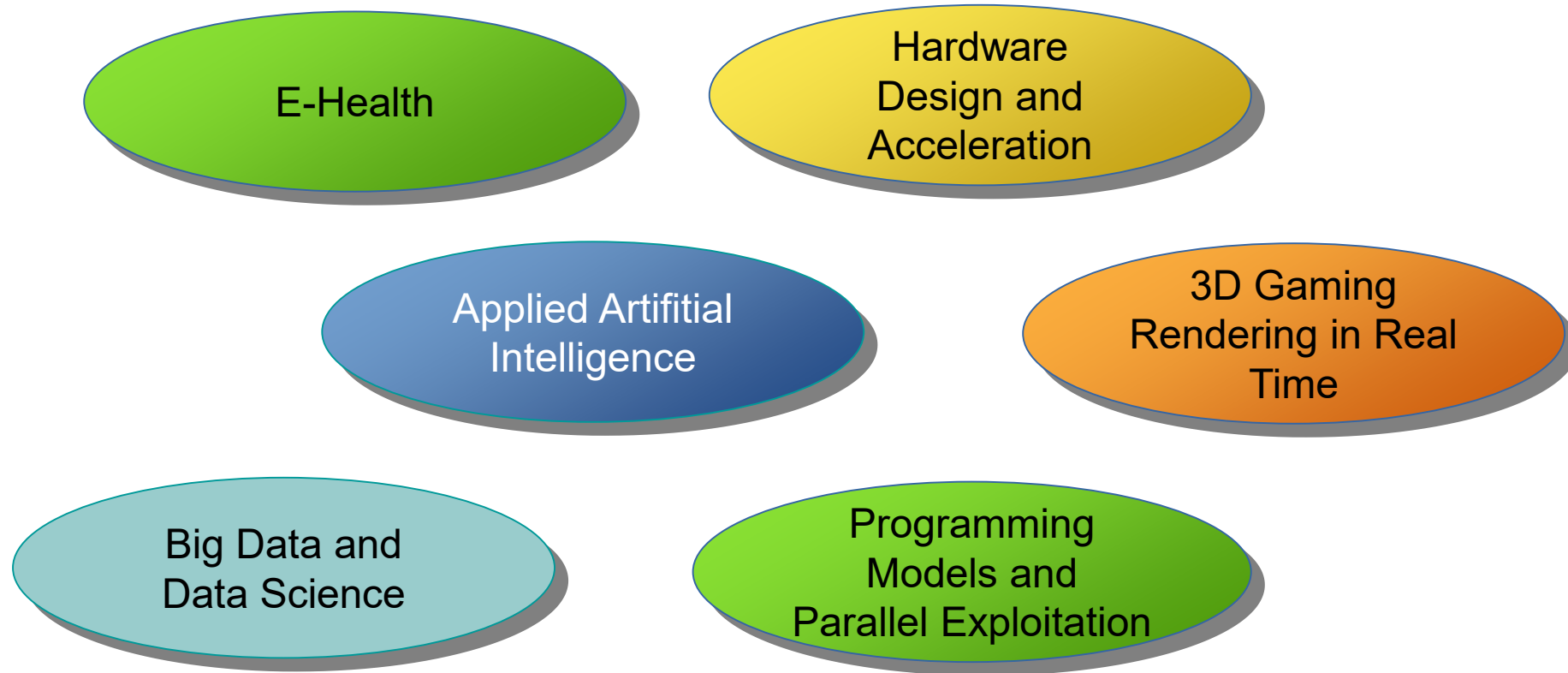
- Get read to become a Chief Information Officer (CIO): fostering entrepreneurship and project management
- Become a Computer Scientist: Technical skills to become a successful professional with strong innovation capabilities

This degree is equivalent to the former *Enginyer en Informàtica*

- *Equivalent to habilitant masters*: Required to opt in for some public administration (and other entities) positions
- Accreditations: EQUAINE, AQU-Excellence
- Language: Spanish or Catalan (B2)
- 90 ECTS : 1.5 anys – Strong professional orientation
 - 45 Compulsory (36 IT , 9 Management)
 - 15 Elective
 - 30 Master thesis(Management orientation: 9 compulsory and 3 elective ECTS)
- Lectures in the afternoon (detailed schedule at: <https://www.fib.upc.edu/ca/estudis/masters/master-en-enginyeria-informatica/horaris>)
- Industrial Agreements – Curricular Internships, Professional Experience (elective ECTS)
- Complementary courses might be required

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

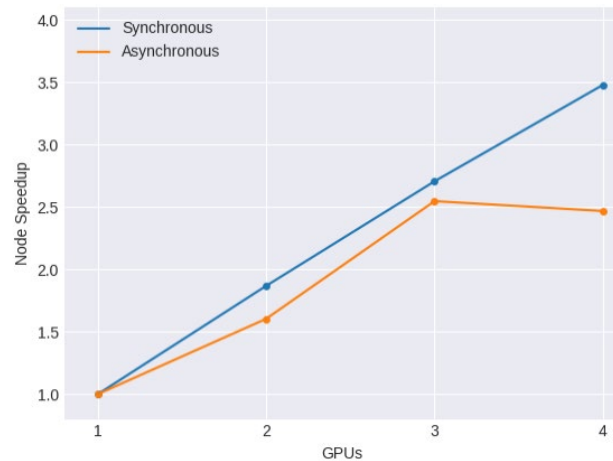
Social and Technological Challenges



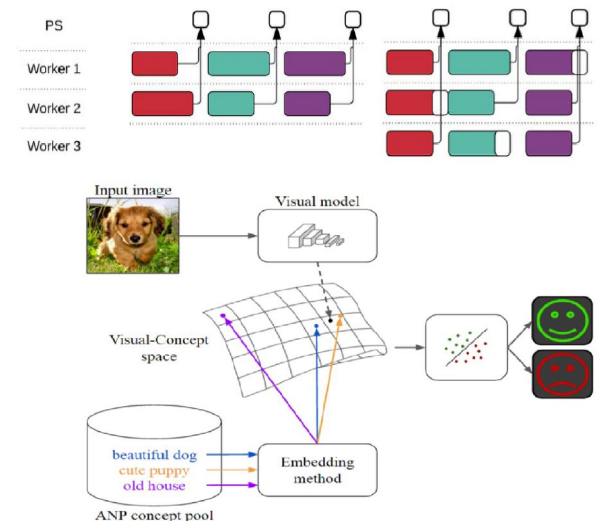
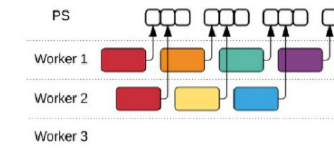
**TECHNOLOGY TRANSFER
RESEARCH + DEVELOPMENT + INNOVATION**

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*

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 ▼

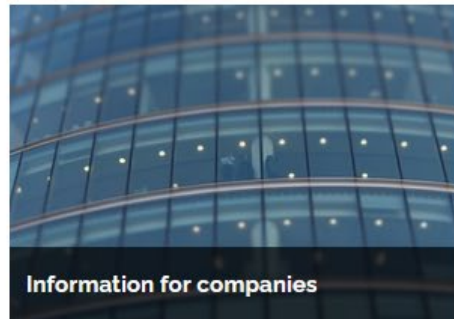
Offers list

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 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

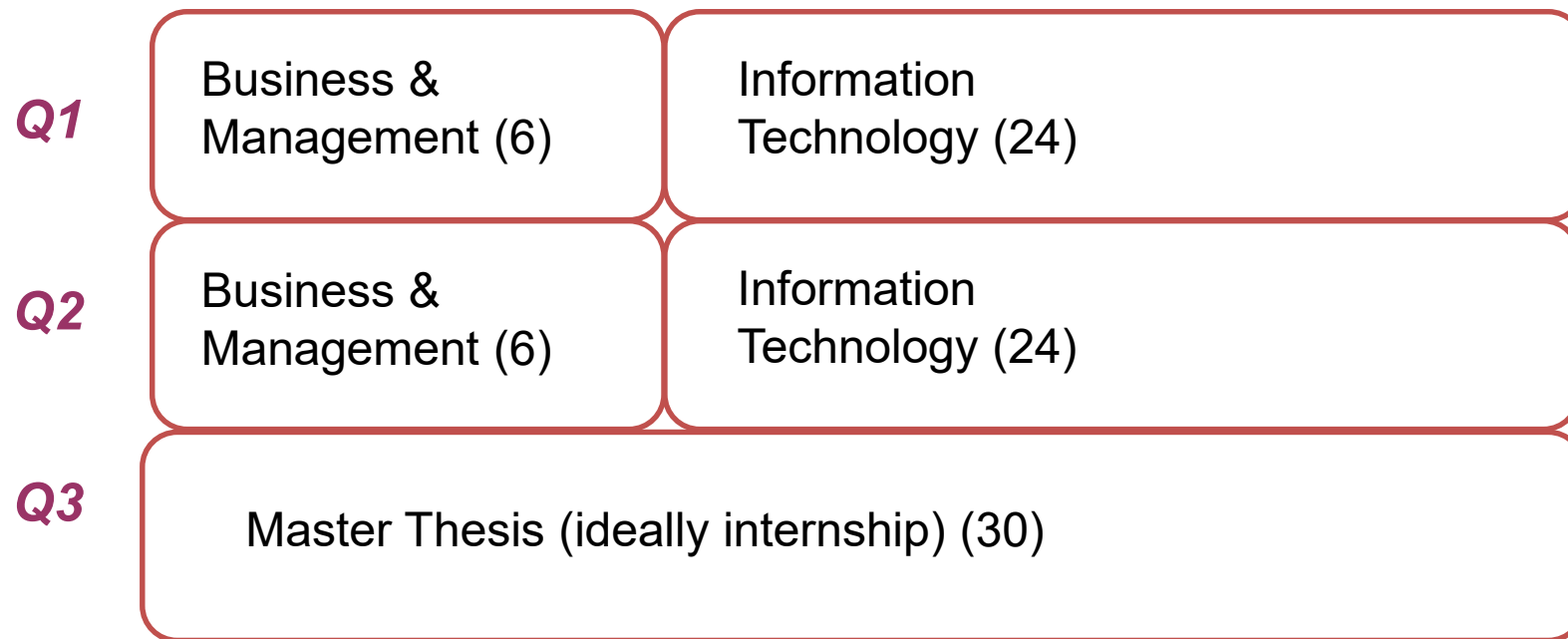
It is the same as MEI (all information from previous slide holds), but a modality thought for people working part-time at a company or in a CCE

- *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

- Recommended MEI path:



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

MEI Vs. MEI Industrial Modality

	Via Ordinària	Modalitat Empresa	
Q1	ACAP, CSI, SEU, SGI, PEGTI +1.5 (1 assignatura Direcció)	SGI, CSI, PEGTI+SECS 18 ECTS	Contracte o buscant CCE
Q2	VPEI+FPEI, DGSI, ISDCM, + 7.5 (3 assignatures optatives)	VPEI+FPEI, DGSI, ISDCM 18 ECTS	CCE o Contracte Laboral + Seminaris Formatius
Q3	TFM	SEU, ACAP 12 ECTS	CCE o Contracte Laboral + Seminaris Formatius
Q4	-	TFM (modalitat B/D) 30 ECTS	

+ 6/12 reconeixement de crèdits

ECTS (industrial modality)

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

Total: 90 ECTS

Mobility and Internationalisation

Plenty of options! **189 agreements with 181 universities in 41 countries**

- Study abroad (one or two semesters)
 - Conditions (max ECTS): 30
 - You can request it once you have passed 30 ECTS
 - Mobility programs (many with scholarships)
 - CERN
 - Erasmus+
 - Latin America, USA and Canada
 - National Institute of Informatics (NII) Tokyo
 - China
- Double degrees
 - Escuela de posgrado de la Pontificia Universidad Católica de Perú (PUCP)
 - Institut Supérieur d'Informatique, de Modélisation et de leurs Applications (ISIMA)
- 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	📅 04 Apr 22 - 19 Apr 22
Mobility experiences	! Place application for foreign universities: programa Erasmus+, Latin America, CINDA, Canada, Russia, Taiwan and China (2nd call)	📅 13 Sep 22 - 18 Sep 22
Study abroad ▶	✗ Place application for foreign universities: Erasmus+, Latin America, Russia, Taiwan, China and double degrees	📅 18 Feb 22 - 03 Mar 22
Internship abroad	✗ Application for a place at Spanish universities in the SICUE programme	📅 11 Feb 22 - 25 Feb 22
Other activities abroad	✗ Application for mobility in the US	📅 01 Dec 21 - 21 Jan 22
	✗ Application for a mobility place with the programme UNITECH	📅 17 Dec 21 - 18 Jan 22
	✗ Vulcanus programme	📅 02 Nov 21 - 14 Jan 22
	✗ Application for the National Institute of Informatics (NII) in Tokyo - 1st call	📅 13 Sep 21 - 20 Sep 21
	✗ iWeek a Paris	📅 17 Dec 19 - 28 Jan 20
	✗ Application for the National Institute of Informatics (NII) in Tokyo - 2nd call	📅 06 Sep 19 - 10 Oct 19

Opened ✓ To be open ! Closed ✗

Mobility and Internationalisation

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

Mobility information session 2021-2022

For mobility stays during the academic
year 2022-2023

1st semester

Wednesday, 17 November 2021

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: <https://meet.google.com/dwj-zygt-wkp>

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



2nd semester

Wednesday, 16 February 2022

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: <https://meet.google.com/mip-zfid-fte>

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



Still have doubts?

Contact us at:

rel.int@fib.upc.edu

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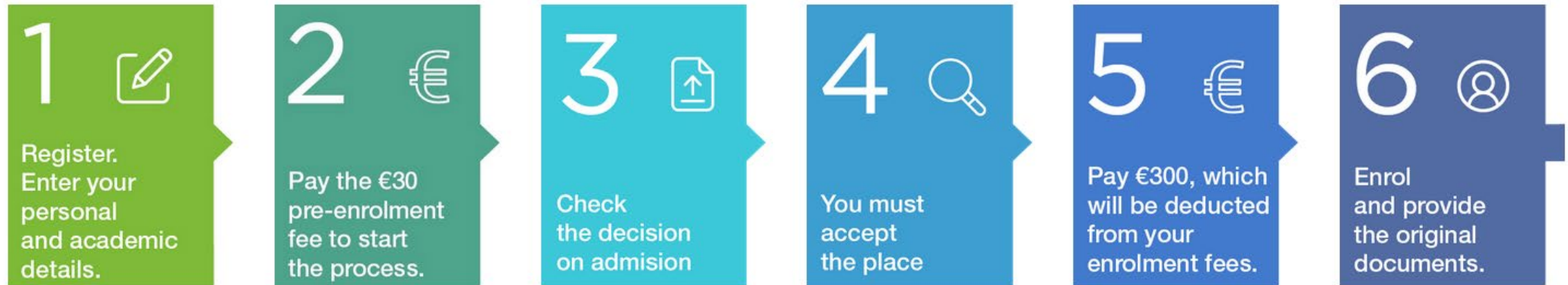
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Enrolment Procedure

Procedure

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

The admission process, step by step



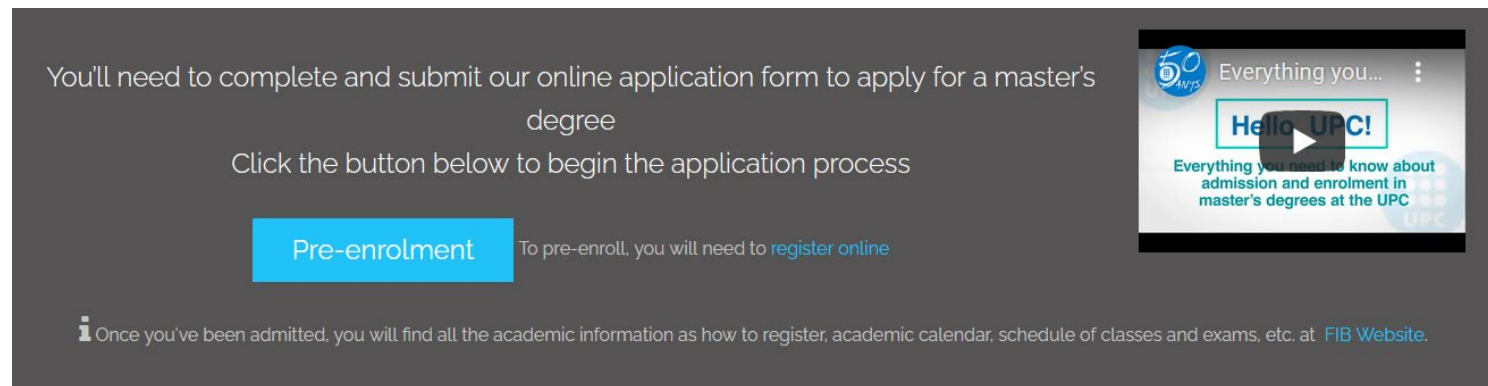
<https://www.upc.edu/en/masters/access-admission-enrolment>

Important Dates

- **Pre-enrolment**: From 1st March to 27th May 2022
- Two (three) **admission** periods:
 - First period:
 - Deadline to apply: 22nd April 2022
 - Tentative admission notification: 29th April 2022
 - Second period:
 - Deadline to apply: 27th May 2022
 - Tentative admission notification: 3rd June 2022
 - *Third period*:
 - *Not guaranteed, only if seats available*
 - *Tentative deadline: 30th June*
 - *Tentative admission notification: 7th July*
- Check the **admission** criteria at: <https://masters.fib.upc.edu/masters/master-informatics-engineering>

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>

Admission

- Depending on your pre-enrolment data your application will be evaluated within the first or second period
- Evaluation outcome: **accept, reject, postpone (1st round) or waiting list (2nd round)**
 - First period:
 - Deadline to apply: 22nd April 2022
 - Tentative admission notification: **29th April 2022 (accept, postpone, reject)**
 - Second period:
 - Deadline to apply: 27th May 2022
 - Tentative admission notification: **3rd June 2022 (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

Prices

Prices 2021/22 for European Union applicants

- MEI: 27,67€ / ECTS

Prices 2021/22 for Non-European Union applicants

- MEI: 41,05€ / ECTS

***Note:** prices for 2022/2023 will be published in July. Once published, UPC list the prices here: <https://www.upc.edu/sga/ca/matricula/preus/PreusMaster>*

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>

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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-Corral-Catalunya (McCA) scholarships for MIRI students	▼

Grants and Aids

- Becas del Ministerio de Educación 2022/23
 - If you plan to study a master, apply! (**even if you are not sure what and where**)
 - In September you will be asked to provide information of the master chosen
 - Period to apply: from 30th March to 12th May (way earlier than in previous years)
- Further details:
<https://www.upc.edu/sga/es/Becas/BecasEstudio/BecaMEyFP22>
- Support to the process (UPC video):
<https://www.youtube.com/watch?v=BsQoHywfrl4>

Important note: since this master is equivalent to an habilitant master, but not define as an habilitant one (in Computer Science this concept is not regulated) when opting to the “beca del ministerio” you must choose “no” to the option “máster habilitante”

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Social Life

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



Implica't



Viu la FIB



Social Life

WiDS: Women in Data Science Barcelona 2021

Women in Data Science is taking place in Barcelona next June 22nd.



Last preparations of the WiDS – Women in Data Science, Barcelona 2021, do not miss it! It will be very

where you can register without any cost and you can check the

Secretary of State for Digital Strategy.



an European Big
Analytics Summer School (eBigSS)
July 5 - 10, 2020 Cesena, Italy

FIB Visiona

Home » Companies » FIB Visiona



- Industrial Practices
- Job Placements
- FIB Visiona
- Sponsorship

The FIB Visiona is a set of activities (presentations, conferences, company stands, CV submissions, interviews, etc.) that are run by students with the participation of a large number of businesses. Companies are showing a growing interest in this initiative, as it enables them to make contacts with potential future employees. The same is true of students, who are thus afforded the opportunity of directly contacting some of the best companies in the informatics sector or other sectors such as telecommunications, services and consultancy

[FIB Visiona](#)

Campus d'Excel·lència Internacional

UPC

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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 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