



# Welcome session for 1<sup>st</sup> Course students at ETSEIB

## Bachelor's degree in Industrial Technologies and Economic Analysis

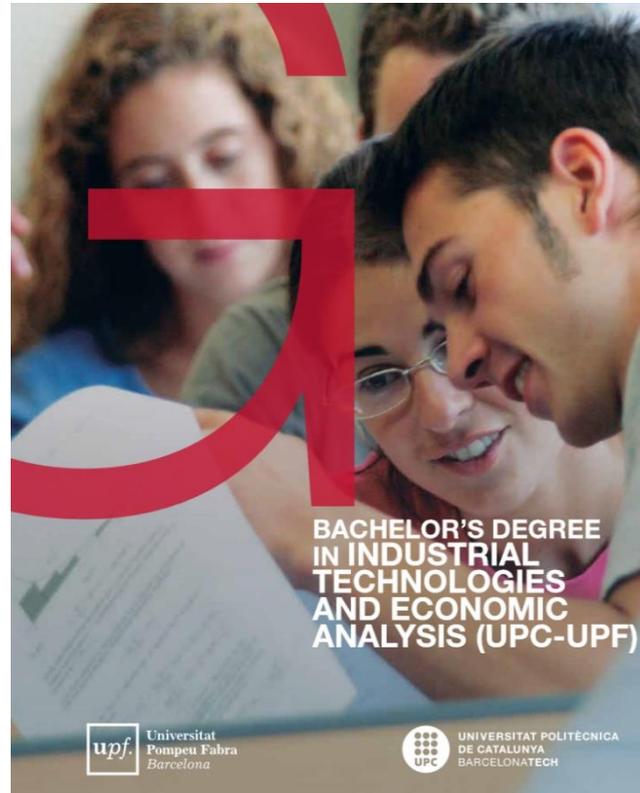
**Manel Mateo**, *ETSEIB director*

**Marga Anglada**, *Librarian head of services*

**Joaquim Minguella**, *Director/coordinator of the bachelor's degree*

Wednesday, 8<sup>th</sup> September 2021

In-presence session



# Session development

## First Part

~45 min

- **Presentations**
  - Introduction and welcome to ETSEIB
  - Bachelor's degree functioning and important information
  - Student support and other important assets
  - ETSEIB Library

## Second Part

~15 min (and +)

- Time for **Questions and Answers**

# Welcome!

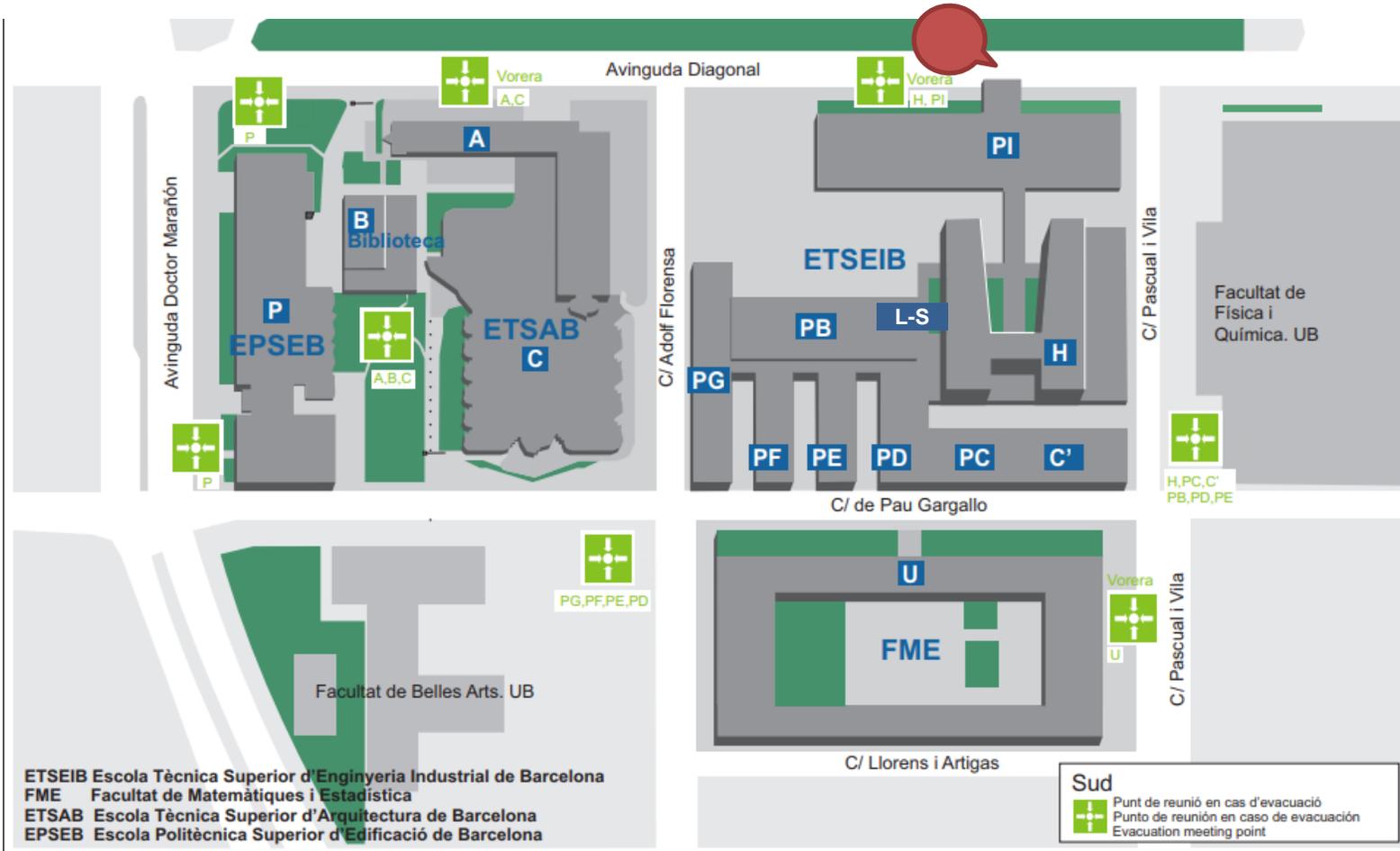


Mrs. Marga Anglada  
**Librarian head of services**

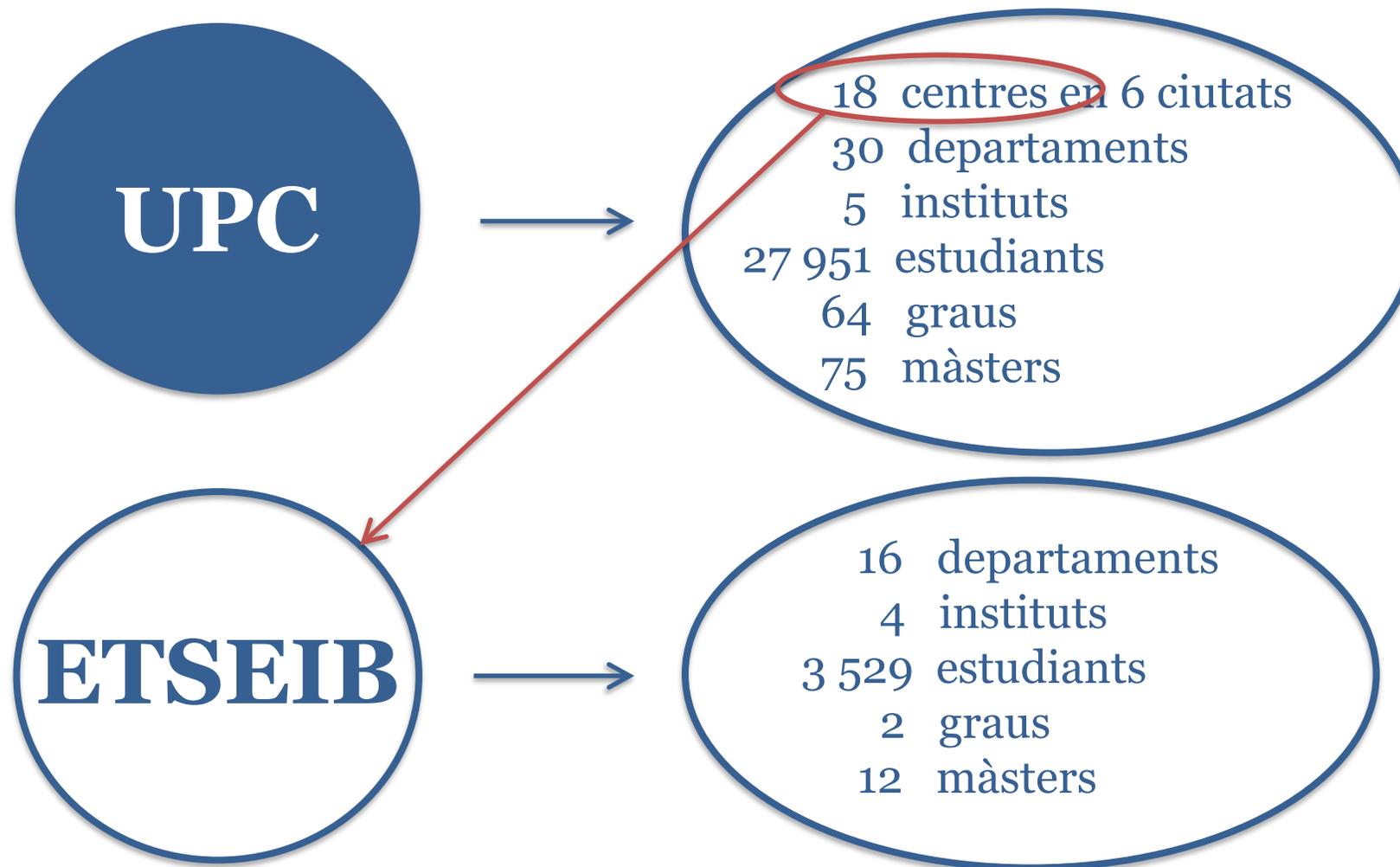
Prof. Manel Mateo  
**ETSEIB director**

Prof. Joaquim Minguella  
**Director/coordinator of the bachelor's degree**

Welcome Session (8<sup>th</sup> September 2021, 9:00 am)  
 Bachelor's degree in Industrial Technologies and Economic Analysis (UPC-UPF)



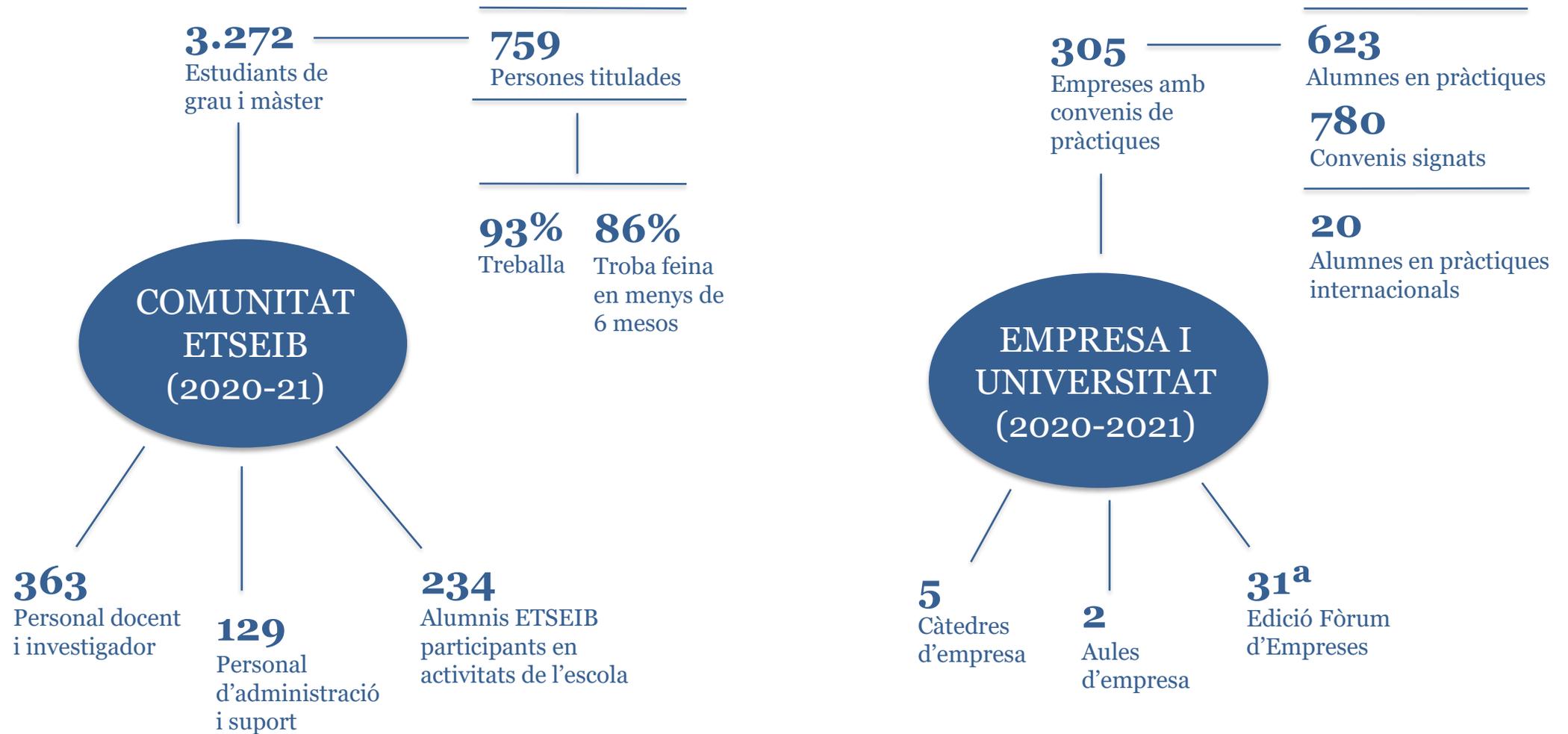
The main entrance is here



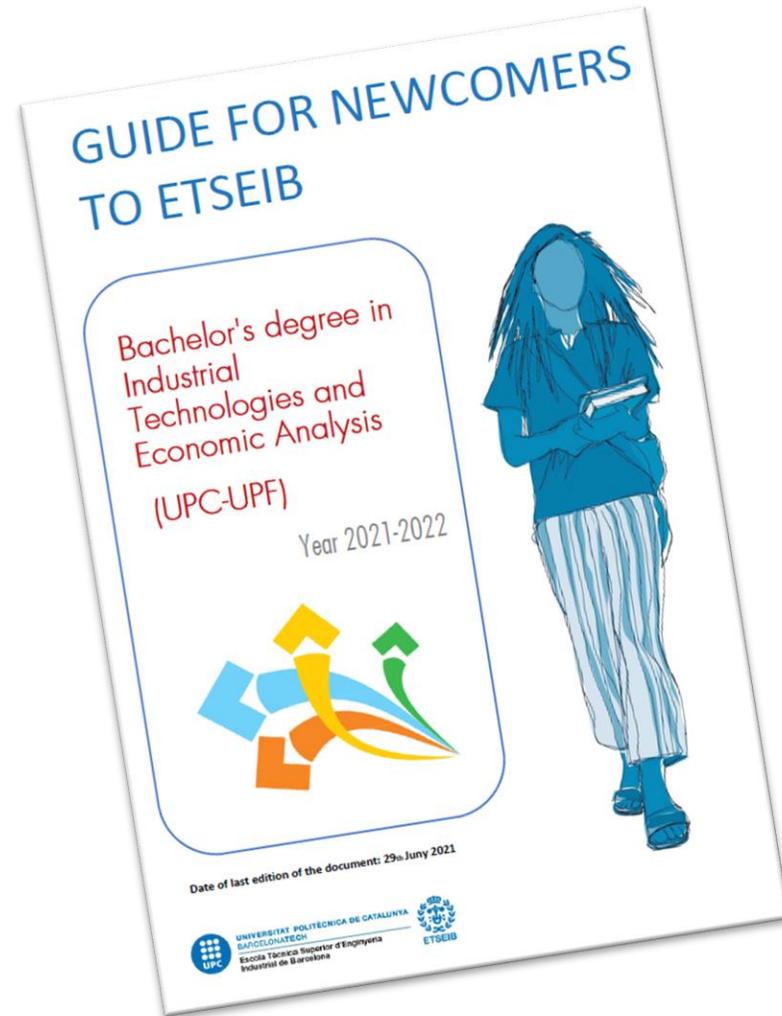
**L'ETSEIB:**

*Fundada l'any 1851, amb la missió de servir la societat mitjançant la formació, la investigació i la transferència de tecnologia i coneixement en el camp de l'enginyeria industrial, amb el màxim nivell acadèmic i de qualitat.*





Welcome Session (8<sup>th</sup> September 2021, 9:00 am)  
Bachelor's degree in Industrial Technologies and Economic Analysis (UPC-UPF)



<https://etseib.upc.edu/ca/futurs-estudiants/pla-dacollida>

## Bachelor's degree in Industrial Technologies and Economic Analysis - 2021

Seats offered	50
1st Preference	128 (+28)
2 <sup>nd</sup> -8 <sup>th</sup> Preferences	270 (+29)
Ratio demand:offer [%]	256% – 540%
Admitted students	57
Gender equity	40.4% f 59.6% m
Cutting mark 2020-21	12.548 / 14 (+0.032)

### Comparison of the Cutting mark with other public bachelor degrees (2021)

5<sup>th</sup> bachelor degree in UPC out of 64

5<sup>th</sup> bachelor degree in UPF out of 48

24<sup>th</sup> bachelor degree in Catalonia out of 525

# Himalayas

Bachelor's Thesis presentation

4

3

2

1



Welcome session



## Bachelor's degree in Industrial Technologies and Economic Analysis

Initial Phase: Group of subjects in the first year (terms 1 and 2) = 60 ECTS

Term 1 (Autumn)			Term 2 (Spring)		
Calculus I	UPC	6 ECTS	Calculus II	UPC	6 ECTS
Physics I	UPC	6 ECTS	Physics II	UPC	6 ECTS
Algebra and geometry	UPC	6 ECTS	Introduction to Economics	UPF	6 ECTS
Chemistry	UPC	6 ECTS	Introduction to Game Theory	UPF	6 ECTS
Programming	UPC	6 ECTS	Probability and Statistics	UPF	6 ECTS



It is not possible to register for second year subjects until the completion of the Initial Phase.

## **Bachelor's degree in Industrial Technologies and Economic Analysis**

**Initial Phase: Group of subjects in the first year (terms 1 and 2) = 60 ECTS**

**The Initial Phase is completed when:**

- All subjects (60 ECTS) are qualified with a mark of 5 or more, or
- All subjects (60 ECTS) are qualified with a mark of 5 or more, except for one which is qualified with a mark of 4 or more, or
- All subjects (60 ECTS) are qualified with a mark of 5 or more, except for a maximum of two them; which must have a mark superior to 4 and must accomplish:  $N1 + N2 \geq 9$   
(example: two subjects marked with a 4.3 and 4.7)

**Under any of these conditions, the Initial Phase is considered completed and the student can register for the subjects in the second course.**

## **Bachelor's degree in Industrial Technologies and Economic Analysis**

**Initial Phase: Group of subjects in the first year (terms 1 and 2) = 60 ECTS**

**The Initial Phase is terminated when:**

- The student fails to pass a minimum of 12 ECTS during the first academic year (2 terms),  
or
- The Initial Phase (total of 60 ECTS) is not completed in the period of 2 academic years (4 terms).

**If the Initial Phase is terminated, the student cannot continue the courses of the Bachelor's degree in Industrial Technologies and Economic Analysis.**

## *Subjects' evaluation:*

Each subject has its own evaluation system, defined in its subject file.

Common evaluation items are:

- Interim (Midterm) examination
- Final examination
- Other Continuous evaluation items (Problems, etc.)

### Sistema de qualificació

The overall course grade is calculated as:

$$\text{Grade} = \max(\text{Grade}_A, \text{Grade}_B)$$

with

$$\text{Grade}_A = 0.30 \text{ Probs} + 0.30 \text{ Test} + 0.20 \text{ Lab} + 0.20 \text{ Midterm}$$

$$\text{Grade}_B = 0.40 \text{ Probs} + 0.40 \text{ Test} + 0.20 \text{ Lab}$$

where,

Grade: Final grade of the course.

Probs: Mark obtained in the problems exam.

Test : Mark obtained in the test exam.

Lab: Average mark of the laboratory reports delivered at the end of each lab session.

Midterm: Mark obtained in the midterm exam.

**There is also a Resit examination that can be taken during the first weeks of July.**

# Welcome Session (8<sup>th</sup> September 2021, 9:00 am)

## Bachelor's degree in Industrial Technologies and Economic Analysis (UPC-UPF)



CALENDARI ACADÈMIC CURS 2021-2022 (Graus)									
mes	dl	dt	dc	dj	dv	ds	dg	Set.	Observacions:
set.	6	7	8	9	10	11	12		
	13	14	15	16	17	18	19	1	Inici quadrimestre de tardor del 13-set.-21 al 22-des.-21
	20	21	22	23	24	25	26	2	
	27	28	29	30	1	2	3	3	
oct.	4	5	6	7	8	9	10	4	
	11	12	13	14	15	16	17	5	
	18	19	20	21	22	23	24	6	
	25	26	27	28	29	30	31	7	
nov.	1	2	3	4	5	6	7	8	Proves parcials Q. tardor (troncals i oblig) del 2-nov.-21 al 5-nov.-21
	8	9	10	11	12	13	14	9	
	15	16	17	18	19	20	21	10	
	22	23	24	25	26	27	28	11	
	29	30	1	2	3	4	5	12	
des.	6	7	8	9	10	11	12	13	
	13	14	15	16	17	18	19	14	Final quadrimestre de tardor del 13-set.-21 al 22-des.-21
	20	21	22	23	24	25	26		
	27	28	29	30	31	1	2		
gen.	3	4	5	6	7	8	9		
	10	11	12	13	14	15	16	E	Exàmens Finals quadrimestre de tardor del 10-gen.-22 al 28-gen.-22
	17	18	19	20	21	22	23	E	
	24	25	26	27	28	29	30	E	
	31	1	2	3	4	5	6		
febr.	7	8	9	10	11	12	13		Avaluació curricular
	14	15	16	17	18	19	20	1	Inici quadrimestre de primavera del 14-febr.-22 al 27-maig-22
	21	22	23	24	25	26	27	2	
	28	1	2	3	4	5	6	3	
març	7	8	9	10	11	12	13	4	
	14	15	16	17	18	19	20	5	
	21	22	23	24	25	26	27	6	
	28	29	30	31	1	2	3	7	
abr.	4	5	6	7	8	9	10		Proves parcials Q. primavera (troncals i oblig) del 4-abr.-22 al 8-abr.-22
	11	12	13	14	15	16	17		Vacances de Setmana Santa del 11-abr.-22 al 18-abr.-22
	18	19	20	21	22	23	24	8	
	25	26	27	28	29	30	1	9	
maig	2	3	4	5	6	7	8	10	
	9	10	11	12	13	14	15	11	
	16	17	18	19	20	21	22	12	
	23	24	25	26	27	28	29	13	Final quadrimestre de primavera del 14-febr.-22 al 27-maig-22
	30	31	1	2	3	4	5	E	Exàmens Finals quadrimestre de primavera del 1-juny-22 al 23-juny-22
juny	6	7	8	9	10	11	12	E	
	13	14	15	16	17	18	19	E	
	20	21	22	23	24	25	26	E	
	27	28	29	30	1	2	3		Reavaluacions del 30-juny-22 al 6-jul.-22
jul.	4	5	6	7	8	9	10		Avaluació curricular
	11	12	13	14	15	16	17		
	18	19	20	21	22	23	24		
	25	26	27	28	29	30	31		
ag.	1	2	3	4	5	6	7		

UPC start q1

UPC start q2

In-presence for lectures "group 10" (even weeks)  
+ In-presence for all labs, seminars and other "11, 12" and examinations (all weeks)



Classe
Avaluació
*Recuperació
Festiu
No lectius
Vacances

UPF start t3

Abr/Abr/Apr							Mai/May/May						
DI	Dt	Dc	Dj	Dv	Ds	Dg	DI	Dt	Dc	Dj	Dv	Ds	Dg
													1
	4	5	6	7	8	9	2	3	4	5	6	7	8
11	12	13	14	15	16	17	9	10	11	12	13	14	15
18	19	20	21	22	23	24	16	17	18	19	20	21	22
25	26	27	28	29	30		23	24	25	26	27	28	29
							30	31					

Jun/Jun/Jun							Jul/Jul/Jul							Ago/Ago/Aug						
DI	Dt	Dc	Dj	Dv	Ds	Dg	DI	Dt	Dc	Dj	Dv	Ds	Dg	DI	Dt	Dc	Dj	Dv	Ds	Dg
		1	2	3	4	5					1	2	3	1	2	3	4	5	6	7
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
27	28	29	30				25	26	27	28	29	30	31	29	30	31				

# Timetable 1<sup>st</sup> Term (as of 6<sup>th</sup>/09/2021)



Grau en Tecnologies Industrials i Anàlisi Econòmica [2018] [21-22 Q1] Àlgebra i Geometria (10), Programació (11), Programació (12), Física I (10), Càlcul I (10), Química (10)						
Hora / Dia	Dilluns		Dimarts	Dimecres	Dijous	Divendres
08:00-09:00						
09:00-10:00						
10:00-11:00	Programació 12 (P) H-5.3 ..	Programació 11 (P) H-5.0 ..	Física I 10 (T) L-LS.1 SEMPRAU ROMA, JOSEP (ENG) FUTATANI, SHIMPEI (ENG)	Química 10 (T) L-LS.1 ALMAJANO PABLOS, MARIA PILAR (CAT)	Física I 10 (T) L-LS.1 SEMPRAU ROMA, JOSEP (ENG) FUTATANI, SHIMPEI (ENG)	Càlcul I 10 (T) L-LS.1 HUGUET CASADES, GEMMA (CAT)
11:00-12:00	Programació 12 (P) H-5.3 ..	Programació 11 (P) H-5.0 ..	Física I 10 (T) L-LS.1 SEMPRAU ROMA, JOSEP (ENG) FUTATANI, SHIMPEI (ENG)	Química 10 (T) L-LS.1 ALMAJANO PABLOS, MARIA PILAR (CAT)	Física I 10 (T) L-LS.1 SEMPRAU ROMA, JOSEP (ENG) FUTATANI, SHIMPEI (ENG)	Càlcul I 10 (T) L-LS.1 HUGUET CASADES, GEMMA (CAT)
12:00-13:00	Programació 12 (P) H-5.3 ..	Programació 11 (P) H-5.0 ..	Àlgebra i Geometria 10 (T) L-LS.1 ..	Càlcul I 10 (T) L-LS.1 HUGUET CASADES, GEMMA (CAT)		Química 10 (T) L-LS.1 ALMAJANO PABLOS, MARIA PILAR (CAT)
13:00-14:00	Programació 10 (T) L-LS.1		Àlgebra i Geometria 10 (T) L-LS.1 ..	Càlcul I 10 (T) L-LS.1 HUGUET CASADES, GEMMA (CAT)		Química 10 (T) L-LS.1 ALMAJANO PABLOS, MARIA PILAR (CAT)
14:00-15:00						
15:00-16:00					Àlgebra i Geometria 10 (T) H-7.1 ..	
16:00-17:00					Àlgebra i Geometria 10 (T) H-7.1 ..	

[https://guiadocent.etsib.upc.edu/simngen/form/simulator.php?lang=ca&degree=1284&semester=actual&&subject\\_2053&subject\\_2089&subject\\_2069&subject\\_2054&subject\\_2090](https://guiadocent.etsib.upc.edu/simngen/form/simulator.php?lang=ca&degree=1284&semester=actual&&subject_2053&subject_2089&subject_2069&subject_2054&subject_2090)

*Talent =*

$$\left( \frac{\textit{Inherited skills} + \textit{Acquired skills}}{\textit{time}} \right) \textit{attitude}$$

*(Eq. 2)*

# Connection with the industrial ecosystem



*Foundation **Barcelona Education in Science and Technology (BEST):**  
Created to promote **excellence in university education**, especially **interdisciplinary and interuniversity** collaborations, to stimulate the training of professionals with **high professional and technical training***

## Collaborators:



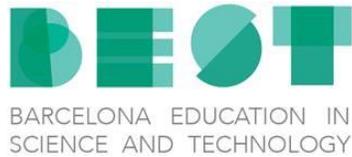
## Promoters:



## Support:



[www.fbest.org](http://www.fbest.org)



## Grants and scholarships programme



→ <http://fbest.org/becas/?lang=es>

### Programa de becas y ayudas al estudio

**Información General**

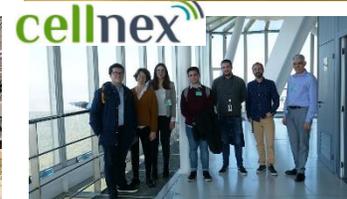
El objetivo del Programa de becas y ayudas al estudio con talento para que puedan cursar y completar con éxito los estudios impulsados por la fundación BEST, sea cual sea su nivel de estudios, es proporcionar apoyo económico al inicio o durante el desarrollo de los estudios.

Dicho de otra manera, se pretende que la fundación impulsara a las personas con el mejor rendimiento académico a iniciar los estudios impulsados sin que tengan que quedar atrás por razones económicas, de origen geográfico y/o sociales.

Con estas ayudas, se desea poder atraer al mejor talento que se pueda.

- a. Ayudas a los estudios
- b. Becas de movilidad
- c. Ayudas del fondo de emergencia para circunstancias sobrevenidas

# “Enterprise Challenges”



2<sup>nd</sup> Prize  
Enterprise Challenges 2020



3<sup>rd</sup> Prize  
Enterprise Challenges 2020




1<sup>st</sup> Prize  
Enterprise Challenges 2020



## PROBLEM?

### ISSUE

- Enunciate the problem
- Identify the causes
- Quantify the impact

### IDEA

- Innovate a solution
- Quantify the resources needed for prototyping + ramp-up
- Estimate the payback

### PROTOTYPE

- Engineer the solution
- Develop a minimum viable proto [Web app]
- Validate it, testing it in a relevant environment

### RAMP-UP

- Plan next steps
- Update the detail of the resources needed to complete and implement the solution

## → SOLUTION

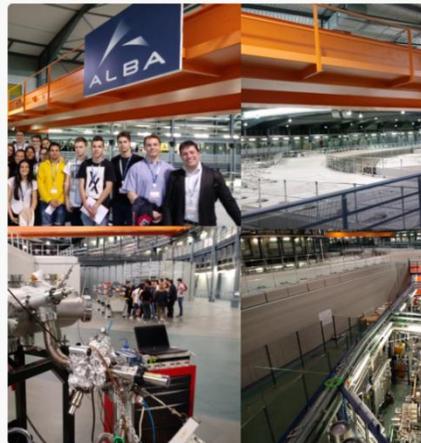
# “Transformational Sessions”



**Pavelló Mies  
Van der Rohe,  
(Barcelona)  
03/12/2018**



**Campus Repsol,  
(Madrid)  
30/01/2020**



Actos

## Visita al Sincrotrón ALBA

Los estudiantes del grado en Tecnologías Industriales y Análisis Económico visitan el Sincrotrón ALBA, una gran infraestructura científica al servicio de la comunidad académica y los sectores industriales. Los estudiantes del grado en Tecnologías Industriales y Análisis Económico (UPC-UPF) han tenido la oportunidad de realizar una visita guiada y...



**Sincrotró ALBA, (Cerdanyola  
del Vallès) 09/05/2019**



**Recinte Modernista  
de St. Pau,  
(Barcelona)  
21/11/2019**





*Language  
partner*

*Providing free (sponsored) English courses through  
the 'Scholarship and study aid programme'*



*Free English on-line Test*

<https://www.bcnlanguages.com/en/english-level-test/>

*15% discount in all courses  
quoting the code **'ITEA'***

# Student support

## Inclusion services at UPC

In case of **special needs** and/or **permanent or transient disorder**, UPC can help in:

- ✓ University access
- ✓ Free registration fees
- ✓ Scholarships and grants
- ✓ Curricular adaptations
- ✓ Help groups

Information and contact:

[www.upc.edu/igualtat/discapacitat](http://www.upc.edu/igualtat/discapacitat)  
[atencio.discapacitats@upc.edu](mailto:atencio.discapacitats@upc.edu)

<https://inclusio.upc.edu/ca/serveis>  
[oficina.inclusio@upc.edu](mailto:oficina.inclusio@upc.edu)



## Sports programme at UPC

If you are a high-level athlete, you can join the programme **TUTORESSPORT.UPC**, which aims to facilitate the compatibility of sports activity and academic studies.

The program has been running since 2008 and has already been enjoyed by over 740 people.

Information and contact:

<https://www.upc.edu/esports/competicio/esports-alt-nivell>

[competicio-upc@upc.edu](mailto:competicio-upc@upc.edu)



## COVID Measures:



Grau
Màsters
Dobles titulacions
Serveis Acadèmics Grau i Màster
Accés estudis de grau i màster
Matrícula
Pràctiques d'empresa
Treball Fi d'Estudis
Tràmits Acadèmics
Calendaris
Beques i Ajuts
Reglament i Normatives

### Informacions i comunicats en relació amb el COVID-19

Informació sobre les actuacions excepcionals a la UPC davant l'emergència sanitària per coronavirus (COVID-19).

A l'ETSEIB les persones de contacte per a la coordinació COVID són la Sotsdirectora de Política Acadèmica i Màster d'Enginyeria Industrial, la Sra. Imma Ribas i la Cap de la UTG, la Sra. Elena Galindo.  
Per la comunicació de casos COVID19 l'adreça és [comunicacio.covid.etsuib@upc.edu](mailto:comunicacio.covid.etsuib@upc.edu) i se us demana omplir el [FORMULARI COVID](#)

- La UPC publica el Pla de contingència per al curs 2021-2022 [26/07/2021](#)
- El 19 d'abril s'inicia al Campus Sud de la UPC una campanya de tests voluntaris de detecció ràpida de la COVID-19 [13/04/2021](#)
- La UPC inicia tests de detecció ràpida de la COVID-19 als campus [09/04/2021](#)
- Represa de les classes teòriques amb presencialitat restringida per a l'estudiantat de primer de grau [05/02/2021](#)
- Es mantenen les previsions dels exàmens del primer semestre a la UPC [05/01/2021](#)
- Pròrroga de 30 dies a les mesures adoptades el 13 d'octubre pel que fa a la docència presencial a la UPC [29/10/2020](#)
- Comunicat del rector de la UPC a la comunitat universitària [28/10/2020](#)
- Comunicat de la UPC en relació a les indicacions de CatSalut [13/10/2020](#)
- Comunicat de la UPC davant les darreres informacions públiques sobre la COVID-19 [11/10/2020](#)



<https://etseib.upc.edu/ca/estudis/notificacions/informacions-i-comunicats-en-relacio-amb-el-covid-19>

## COVID Measures in-brief:



# *ETSEIB Library services*

 **Biblioteca** Escola Tècnica Superior  
**ETSEIB** d'Enginyeria Industrial  
de Barcelona

Loan of laptops,  
calculators,  
Arduino kits,  
board games...



Extended  
opening hours  
during exams

Teaching  
materials,  
recommended  
books, exams...



[Biblioteca.upc.edu](http://Biblioteca.upc.edu)

Your library on  
the web



Areas for  
individual  
studying,  
working in  
groups and rest  
zone

Support the  
information's  
research and  
organizing,  
writing of the  
TFG...



## *Other important matters*

### *Welcome survey*

The Gabinet de Planificació, Avaluació i Qualitat (GPAQ) of UPC will carry out a survey of newly admitted undergraduate students.

- ✓ Date: **10th September**
- ✓ **You will receive an email with the link** to the UPC survey...
- ✓ **Important to have your opinion and to improve** for the next courses!



### *UPC Student card*

The issue and delivery of the cards for new students will take place during the face-to-face start of classes. At the South Campus this will be at the ETSEIB from **September 27<sup>th</sup> to October 8<sup>th</sup>**.

To do so, it will be necessary to request an appointment: <https://mycitaprevia.upc.edu/carnetupc>

- Time frames: Monday to Friday from 9 am to 2 pm and Monday to Thursday from 3 pm to 5 pm.
- Venue: **ETSEIB main Hall.**

In case of loss or expiration, the information for issuing a new copy can be found here:

<https://www.upc.edu/identitatdigital/ca/carnetupc>

# *Time for Questions*



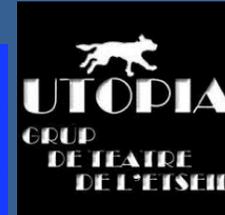
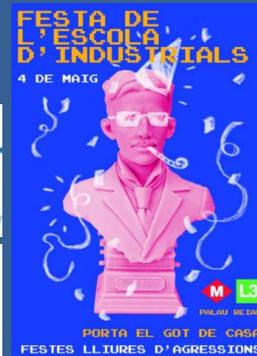
*... and Answers!*

## First homework:

RESPONSIBILITY

EFFORT

ENJOY!!!



LANGUAGE



POSITIVITY



**Believe you can  
and you're  
halfway there**

*T. Roosevelt*

