Welcome session for 1st 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, 8th September 2021
In-presence session
Welcome Session (8th September 2021, 9:00 am)
Bachelor’s degree in Industrial Technologies and Economic Analysis (UPC-UPF)

Session development

<table>
<thead>
<tr>
<th>First Part</th>
<th>~45 min</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Presentations</td>
<td></td>
</tr>
<tr>
<td>➢ Introduction and welcome to ETSEIB</td>
<td></td>
</tr>
<tr>
<td>➢ Bachelor’s degree functioning and important information</td>
<td></td>
</tr>
<tr>
<td>➢ Student support and other important assets</td>
<td></td>
</tr>
<tr>
<td>➢ ETSEIB Library</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Part</th>
<th>~15 min (and +)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Time for Questions and Answers</td>
<td></td>
</tr>
</tbody>
</table>
Welcome Session (8th September 2021, 9:00 am)
Bachelor’s degree in Industrial Technologies and Economic Analysis (UPC-UPF)

Welcome!

Prof. Manel Mateo
ETSEIB director

Prof. Joaquim Minguella
Director/coordinate of the bachelor’s degree

Mrs. Marga Anglada
Librarian head of services
Welcome Session (8th September 2021, 9:00 am)
Bachelor’s degree in Industrial Technologies and Economic Analysis (UPC-UPF)

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

UPC
- 18 centres en 6 ciutats
- 30 departaments
- 5 instituts
- 27,951 estudants
- 64 graus
- 75 màsters

ETSEIB
- 16 departaments
- 4 instituts
- 3,529 estudants
- 2 graus
- 12 màsters
**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.

**PROGRAMES ACADÈMICS**

- **11** Màsters universitaris
- **5** Programes de doble Màster amb el MU en Enginyeria Industrial
- **3** Diplomes inter-universitaris amb la UOC
- **1** Màster Erasmus Mundus
- **149** Acords internacionals
- **16** Acords de doble grau
- **490** Estudiants en programes de mobilitat (2019-20)

**Welcome Session (8th September 2021, 9:00 am)**

*Bachelor’s degree in Industrial Technologies and Economic Analysis (UPC-UPF)*
Welcome Session (8th September 2021, 9:00 am)
Bachelor’s degree in Industrial Technologies and Economic Analysis (UPC-UPF)

COMUNITAT ETSEIB (2020-21)

- 3,272 Estudants de grau i màster
- 759 Persones titulades
- 93% Treballa
- 86% Troba feina en menys de 6 mesos

EMPRESA I UNIVERSITAT (2020-2021)

- 305 Empreses amb convenis de pràctiques
- 623 Alumnes en pràctiques
- 780 Convenis signats
- 20 Alumnes en pràctiques internacionals

- 363 Personal docent i investigador
- 129 Personal d’administració i suport
- 234 Alumns ETSEIB participants en activitats de l’escola
- 5 Càtedres d’empresa
- 2 Aules d’empresa
- 31a Edició Fòrum d’Empreses
Welcome Session (8th September 2021, 9:00 am)
Bachelor’s degree in Industrial Technologies and Economic Analysis (UPC-UPF)

https://etseib.upc.edu/ca/futurs-estudients/pla-dacollida
**Bachelor’s degree in Industrial Technologies and Economic Analysis - 2021**

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

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

- 5th bachelor degree in UPC out of 64
- 5th bachelor degree in UPF out of 48
- 24th bachelor degree in Catalonia out of 525
Welcome Session
(8th September 2021, 9:00 am)
Bachelor’s Thesis presentation
Himalayas
Welcome session
Welcome Session (8th September 2021, 9:00 am)
Bachelor’s degree in Industrial Technologies and Economic Analysis (UPC-UPF)

Bachelor’s degree in
Industrial Technologies and Economic Analysis

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

<table>
<thead>
<tr>
<th>Term 1 (Autumn)</th>
<th></th>
<th>Term 2 (Spring)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus I</td>
<td>UPC 6 ECTS</td>
<td>Calculus II</td>
</tr>
<tr>
<td>Physics I</td>
<td>UPC 6 ECTS</td>
<td>Physics II</td>
</tr>
<tr>
<td>Algebra and geometry</td>
<td>UPC 6 ECTS</td>
<td>Introduction to Economics</td>
</tr>
<tr>
<td>Chemistry</td>
<td>UPC 6 ECTS</td>
<td>Introduction to Game Theory</td>
</tr>
<tr>
<td>Programming</td>
<td>UPC 6 ECTS</td>
<td>Probability and Statistics</td>
</tr>
</tbody>
</table>

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 ≥ 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.

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

Sistema de qualificació

The overall course grade is calculated as:

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

with

\[
\begin{align*}
\text{Grade}_A &= 0.30 \text{ Probs} + 0.30 \text{ Test} + 0.20 \text{ Lab} + 0.20 \text{ Midterm} \\
\text{Grade}_B &= 0.40 \text{ Probs} + 0.40 \text{ Test} + 0.20 \text{ Lab}
\end{align*}
\]

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.
Welcome Session (8th September 2021, 9:00 am)
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In-presence for lectures “group 10” (even weeks)

In-presence for all labs, seminars and other “11, 12” and examinations (all weeks)
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Timetable 1st Term
(as of 6th/09/2021)

Talent =

\[
\frac{(Inherited \ skills + Acquired \ skills)}{time} \cdot \text{attitude}
\]

(Eq. 2)
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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:

Promotors:

Support:

www.fbest.org
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Grants and scholarships programme

→ http://fbest.org/becas/?lang=es
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“Enterprise Challenges”

**PROBLEM?**
- Enunciate the problem
- Identify the causes
- Quantify the impact

**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**
Welcome Session (8th September 2021, 9:00 am)
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“Transformational Sessions”

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

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

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...

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

Campus Repsol, (Madrid) 30/01/2020
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Providing free (sponsored) English courses through the ‘Scholarship and study aid programme’

Language partner

Free English on-line 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
atencio.discalpacitats@upc.edu

https://inclusio.upc.edu/ca/serveis
oficina.inclusio@upc.edu

Sports programme at UPC

If you are a high-level athlete, you can join the programme TUTORESPORT.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
COVID Measures:

https://etseib.upc.edu/ca/estudis/notificacions/informacions-i-comunicats-en-relacio-amb-el-covid-19
COVID Measures in-brief:
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ETSEIB Library services

- Loan of laptops, calculators, Arduino kits, board games...
- Extended opening hours during exams
- Teaching materials, recommended books, exams...
- Biblioteca.ETSEIB. CONNECT 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 27th to October 8th.

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!
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First homework:

RESPONSIBILITY
EFFORT
LANGUAGE
POSITIVITY

ENJOY!!!

First homework:
ENJOY!!!

RESPONSIBILITY
EFFORT
LANGUAGE
POSITIVITY
Believe you can and you’re halfway there

*T. Roosevelt*