

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

## **Frequently Asked Questions**

Last edition date: 09/06/2023

### **I. Access to the studies:**

1. Which are the access ways for the bachelor's degree studies?

It is a public Spanish bachelor's degree that has as access ways all the usual university pre-enrolment channels (<https://www.upc.edu/en/bachelors/access-and-admission>)

2. What are the subjects that ponder as subjects of modality ("*matèries de modalitat*") in the tests of access to the university ("*Proves d'Accés a la Universitat*")?

For the weighting of the subjects of modality of 2nd year of baccalaureate ("*2n de Batxillerat*") that is taken into account for obtaining the access mark ("*nota d'accés*") utilized during the university access pre-enrolment in Catalonia, a coefficient of 0.2 is established in Mathematics, Physics and Chemistry. There are not any subjects holding a weighting coefficient of 0.1.

3. How many places will be offered in the promotion starting the 2023-2024 academic year?

The places offered for new students starting the 2023-2024 academic year are 50. This is the same figure than in the previous years (2022-2023, 2021-2022, 2020-2021 and 2019-2020), which supposed an increase from the places offered in the first academic year 2018-2019 (40 places).

4. What is the level of English required?

The degree is taught entirely in English, which is why it is essential to have a good command of the English language in order to follow the studies normally from the first day. However, no language level certification is required in order to start.

Anyhow, it is important to mention that the universities and foreign centres do ask for certain language certifications in the moment of the application for international academic mobility stays. Therefore, it is advised to follow the usual channels for obtaining certificates that allow the candidates to accredit the pertinent language competence.

5. Are there any specific access tests or supplements necessary for the admission?

To access the degree, it is only considered what it is foreseen in the usual ways of access of university pre-enrolment, without any other complementary tests or supplements.

6. What is the cut-off mark ("*nota de tall*") of the studies?

In the first allocation of university pre-enrolments of the years 2022, 2021, 2020 and 2019, for which there were 50 places offered, the access cut-off mark was set on 12.504, 12.548, 12.526 and 12.024/14 respectively.

In the first allocation of university pre-enrolments of the year 2018 for the 2018-2019 academic year, for which there were 40 places offered, the access cut-off mark was set on 12.102/14.

7. Is it possible to change from another bachelor's degree to this one?

Yes, it is possible to change from another bachelor's degree, although the number of places allocated to this access mode is rather small and it is necessary to fulfil certain requisites.

To begin this procedure, it is necessary to start asking for a pre-study on the possibility of credits recognition ("*sol·licitud d'estudi previ de reconeixements de crèdits*") at the "*secretaria*" of the Escola Tècnica Superior d'Enginyeria Industrial de Barcelona (ETSEIB).

For more information on this, visit: <https://etseib.upc.edu/ca/estudis/tramits/tramits-relacionats-amb-lacces/acces-grau-per-canvi-estudis>

## II. Teaching, training and curriculum:

8. Is it a single degree or a couple of degrees?

It is a single university degree, verified positively ("*valoració favorable*") by the AQU ("*Agència per a la Qualitat del Sistema Universitari de Catalunya*" of the "*Generalitat de Catalunya*") and in the process of registering in the RUCT (*Registro de Universidades, Centros y Títulos*) of the Spanish Ministry of "*Educación, Cultura y Deporte*". The official title is named as "*Graduado o Graduada en Tecnologías Industriales y Análisis Económico*" (teaching in English).

9. What is the content of the studies?

The degree combines knowledge of the basic subjects of engineering (Physics, Chemistry, Computing, Design, Mechanics, Electricity, Electronics and Automation, Production Organization, Environmental Technologies and Sustainability and Projects) with subjects with contents that constitute the foundations Economics (Microeconomics, Macroeconomics, Econometrics and Game Theory). It also covers a common trunk of subjects related to Mathematics and Statistics.

10. What is the expected duration of the studies?

These are bachelor's degree studies with a load of 240 ECTS distributed over a period of four academic years.

11. Once the studies have been completed, what continuity possibilities are offered?

The degree of 4 years of duration allows the access without complementary training to the Master's Degree in Industrial Engineering (which qualifies for the exercise of the regulated profession of Industrial Engineer in Spain) and also provides the necessary preparation to continue higher studies in Economy.

12. What is the teaching language of the studies?

The degree is fully taught in English.

13. How has been the syllabus established?

The syllabus has been deployed year by year. Thus, in September 2018 it started the teaching of the first term subjects at UPC and all the subjects of the degree were deployed as of spring 2022.

14. Is it possible to combine the degree teaching with being employed in a job?

No, the degree is full time and it is assumed that during the teaching periods students are exclusively engaged in the same.

### III. Functioning of the studies:

15. In which academic centres is taught the degree?

The credits corresponding to the UPC are taught at the "*Escola Tècnica Superior d'Enginyeria Industrial de Barcelona*" (ETSEIB), located in the "*Campus Sud*" of Barcelona. The credits corresponding to the UPF will be taught at the "*Facultat d'Economia i Empresa*", located in the "*Campus de la Ciutadella*", in Barcelona. The schedules are designed to avoid having classes or exams from the same academic year happen during the same day at both centres (see questions about schedules).

16. Where take place the enrolment processes?

The registration is made at the UPC, which is the coordinating university of the degree and therefore the one that deals with the management and custody of the academic records.

17. How is the term structure of UPC ("*quadrimestral*") combined with the UPF term structure ("*trimestral*")?

For the subjects taught at the UPC, the four-month classical structure of the undergraduate studies will be followed (teaching during 15 weeks, exams during the following month). For the subjects taught by the UPF, there will be only teaching in the first and third terms of the academic calendar (teaching during 11 weeks, exams during the following couple of weeks).

In the periods with teaching in the two universities, the schedules are configured to avoid the need to attend in the same day to the two campuses (*Campus Sud* or *Ciudadella*). It is also possible to be able to participate in the university life, so that Wednesdays are days at the UPF (so to be able to enjoy the “*Aula de Cultura*”) and Thursdays are UPC days (so to be able to participate in the activities of the “*Franja Cultural*”).

#### 18. How are the schedules?

The schedules consist in a single large group of theory ("lectures", with all participants) that can be divided in small groups of problems or laboratory ("seminars", smaller, depending on the subject).

There is a single timetable configuration that contains both teaching in the morning and in the afternoon; especially in the teaching periods at the UPF, where the duration of the terms is shorter (eleven weeks). However, not every day of the week have both schedules, maybe some days there are only classes in the morning or only in the afternoon. Also, in some of the weeks, some of the days have no teaching (for example because teaching at UPC has already started but not yet at UPF). It is assumed, however, that this time is to be devoted to personal study, since it is a full-time program (see questions about teaching, training and curriculum).

The schedules are designed to avoid having to change the campus on the same day of the week in order to follow the subjects of the same period. The number of days at each campus vary depending on the number of subjects to follow in each centre each period.

All these aspects are also considered when setting exam dates and other evaluation activities.

#### 19. What professors teach the subjects?

The teaching staff of the degree belongs to the teaching bodies of UPC and UPF. Each subject is allocated to a department expert in the corresponding knowledge field.

#### 20. When studying, do the participants have the status of students in both universities?

Yes, the participants have the condition of students of both universities, receive the corresponding student cards and have the right to access the benefits that this implies (<https://www.upc.edu/ca/serveis> and <https://www.upf.edu/serveis>).

### IV. Mobility, internships and scholarships:

#### 21. Is it possible to undertake academic mobility periods in foreign universities?

Yes, students can take an academic stay abroad during the degree through the agreements and exchange programs that the centre subscribes with foreign universities. This kind of mobility is intended for the last study periods (third and/or fourth course).

#### 22. Where is international mobility managed?

International mobility is managed at UPC, which is the coordinating university of the degree and, therefore, that deals with the management and custody of academic records.

#### 23. Is it possible to undertake internships in companies?

Yes, students are entitled to do voluntary extracurricular internships throughout the studies, in accordance with the provisions of the regulations of external academic practices of UPC students.

#### 24. Where are the company internships managed?

The internship agreements are managed at UPC, which is the coordinating university of the degree and, therefore, the one that deals with the management and custody of the academic records.

#### 25. What kinds of grants and study aids are available?

The bachelor's degree in Industrial Technologies and Economic Analysis is a study and has all the public grants available to the Spanish and Catalan university system.

Also, it receives sponsoring of the Fundació Barcelona Education in Science and Technology and its Study aid programme (<http://fbest.org/becas/?lang=es>).

### V. Professional career:

#### 26. What are the professional career tracks of the degree?

The main professional career tracks of the degree are those related to:

- The direction and management of projects, facilities, plants, companies and technology centres in industrial sectors as diverse as energy, automotive, iron and steel and metallurgy, chemistry, robotics, automobile and rail, metallic, mechanical and electrical construction, intelligent materials, nanotechnology or bioengineering, among others.
- The calculation and design of products and processes, with scope for the economic situation, the sector, the market and the business activities.
- Strategic, micro and macroeconomic planning, quality management and environmental management.
- Research, development and innovation in products, processes and methodologies, and the analysis of the implications in its management.



- Leadership and management of economic environments undergoing change.
- The economy and management of companies in the regulated sectors and network services.

27. For the exercise of the regulated profession of Engineer (in Spain), is it necessary to complete a master's degree? What master in particular?

For the exercise of the regulated profession of Industrial Engineer in Spain, it is necessary to complete the “*Màster Universitari en Enginyeria Industrial*” (MUEI). The bachelor’s degree in Industrial Technologies and Economic Analysis allows access without training complements to the MUEI.