Pre-enrolment code: 21022





# Bachelor's degree in Industrial Organization

As a graduate in Engineering in Industrial Organization, you will be prepared to design, develop, implement and improve integrated systems that include people, materials, information, equipment and energy in a way that is in keeping with the business strategy and based on criteria of efficiency and sustainability. You will have an advanced vision of the relationship between engineering and management, planning, administration, control, research and organization of services, and also have to be able to integrate these management systems in different technological environments. The training you receive in this bachelor's degree will allow you to consolidate the tradition of engineering in the industrial area with the new paradigm represented by the 4.0 industry.

This bachelor's degree has been officially recognised as having the professional attributes of a Technical Industrial Engineer. (AQU) (2500263-70106-17).

### **TEACHING PROPOSAL**

After graduating, you will:

- Be proficient in industrial technologies, production management and organization.
- Analyze, diagnose and solve automation and industrial electronics problems with a high degree of professionalism.
- Collect and interpret relevant data on technology, economic and financial, and production processes indicators to provide judgments, studies or reports.
- Write and direct projects in the field of management, as well as operation organization and processes in compliance with the mandatory specifications, regulations and rules.
- 5 Develop a degree of autonomy that will allow them to undertake high-level specialized studies, and subsequent further learning.

# CAREER

Plant management, quality, safety and the environment management, purchasing and supplies management, organization management, continuous improvement management, processes management, or junior consultancy.

In the longer term, depending on your professional and academic career, you will opt for general company management, innovation management, production management, system management or research management in technology centers.



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# Industrial Organization

## Study plan

Certificate: Official Bachelor's Degree Duration: 4 years Total credits: 240 ECTS

	1st. Year	2nd Year	3rd Year	4th Year	TOTAL (ECTS)
Basic Training (FB)	54	6	-	-	60
Compulsory (OB)	6	54	60	12 (TFG)	132
Optional (OT)	-	-	-	48	48

	FB	Calculus	6
lst semestre	FB	Physics	6
	FB	Introduction to Business Management	6
	FB	Computer Science	6
lst	ОВ	Anthropology	3
	ОВ	Environmental Engineering	3
a	FB	Mathematical analysis	6
estr	FB	Engineering Design Graphics	6
em.	FB	Electrical Physics	6
2nd semestre	FB	Chemistry	6
	FB	Applied Mathematics	6

	ОВ	Professional ethics	3
stre	ОВ	Electrical and electronic technology	7
lst semestre	FB	Statistic	6
st se	ОВ	Manufacturing methods	7
Γ.	ОВ	Automation and industrial control methods	7
a	ОВ	Materials science and technology	6
estr	ОВ	Fundamentals of thermal and fluid engineering	6
E	ОВ	Information and communications technology	6
2nd semestre	ОВ	Technical office and project management	6
~	ОВ	Economic and financial engineering	6

ОВ	Mechanical technology	6
ОВ	Business Management	6
ОВ	Proyectos de ingeniería en organización industrial	6
ОВ	Quantitative methods for management	6
ОВ	Economy	6
ОВ	Verdad, bondad y belleza	3
ОВ	Investigación de operaciones	9
ОВ	Control estadístico del producto y del proceso	6
ОВ	Gestión de la calidad, seguridad y medio ambiente	6
ОВ	Política tecnológica y de la innovación	6
	OB OB OB OB OB OB OB	OB Business Management   OB Proyectos de ingeniería en organización industrial   OB Quantitative methods for management   OB Economy   OB Verdad, bondad y belleza   OB Investigación de operaciones   OB Control estadístico del producto y del proceso   OB Gestión de la calidad, seguridad y medio ambiente

ОВ	Bachelor's Degree Final Project	12
от	Advanced engineering design graphics	6
ОТ	Electrotechnics	6
ОТ	CNC Manufacture and simulation	6
ОТ	Knowledge and innovation management	6
ОТ	Human factor management	6
ОТ	Fluids and thermal engineering	6
ОТ	Industrial marketing	6
ОТ	Manufacturing processes	6
ОТ	Automatic control	6
ОТ	Didactics of industrial organisation engineering	6
ОТ	Language - English	6
ОТ	Language - German	6

### 4th YEAR SPECIALISATIONS:

#### Specialisation in Industrial Production

ОТ	Project management	6
ОТ	Supply chain management	6
ОТ	Localisation and design of industrial plants	6
ОТ	Product and process engineering	6
ОТ	Management information systems	6
ОТ	Industrial automation	6
ОТ	Work placement	12

	Dual Specialisation	
ОТ	Internship I	18
ОТ	Internship II	18
ОТ	Optional subject 1st semester*	6
от	Optional subject 2nd semester*	6
ОВ	Bachelor's Degree Final Project	12

\*To be defined during the development of the formative project. \*\*A minimum of 20% of the degree's subjects are offered in English

