

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

FCTS

			ECTS
	FB	Physics	8
ъ	FB	Mathematics	7
eric	FB	Computer Science	6
st period	FB	Introduction to Business Management	6
	ОВ	Anthropology	3
	FB	Chemistry ¹	6
<u> </u>	FB	Calculus	8
2nd period	FB	Engineering Design Graphics	6
b	FB	Electrical Physics	7
2	ОВ	Environmental Engineering ¹	3

			ECTS
	ОВ	Bachelor's Degree Final Project	12
47	ОТ	Work Placement	12
	ОТ	Foreign Language (English)	6
	ОТ	Foreig Languange (German)	6

			<u>ECTS</u>
	ОВ	Organització d'empreses	3
ğ	ОВ	Sistemes electrònics	7
lst period	FB	Statistics	6
st p	ОВ	Theory of Machines and Mechanisms	7
	ОВ	Automation and Industrial Control Methods 1	7
	ОВ	Materials Science and Technology 1	6
bo	ОВ	Fundamentals of Thermal and Fluid Engineering	6
n peric	ОВ	Circuit Theory	6
	ОВ	Technical Office and Project Management	6
2	ОВ	Strength of Materials ¹	6

4th YEAR SPECIALIZATIONS:

	OB	Organització d'empreses	3
ਲ੍ਹ	ОВ	Sistemes electrònics	7
lst period	FB	Statistics	6
st D	ОВ	Theory of Machines and Mechanisms	7
_	ОВ	Automation and Industrial Control Methods 1	7
	ОВ	Materials Science and Technology ¹	6
ро	ОВ	Fundamentals of Thermal and Fluid Engineering	6
peric	ОВ	Circuit Theory	6
n p	ОВ	Technical Office and Project Management	6
7	ОВ	Strength of Materials ¹	6

	SPECIALIZATION: Industry 4.0		
ОТ	Information and Communications Technology	6	
ОТ	Signal Processing and Data Analysis	6	
ОТ	Industrial Internet of Things	6	
ОТ	Industrial Communications	6	
ОТ	Robotic Systems	6	

			EC 12
	ОВ	Electronic Technology	3
	ОВ	Digital Electronics and Microprocessors	3
st period	ОВ	Industrial Manufacturing Systems	3
<u>a</u>	ОВ	Electrotechnics	6
<u>st</u>	ОВ	Automatic Control	6
	ОВ	Electronic Engineering Project I	9
	ОВ	Truth, Kindness and Beauty	3
ਰ	ОВ	Industrial Compunting and Communiations	3
erio	ОВ	Industrial Automation	6
2nd period	ОВ	Power Electronics ²	9
	ОВ	Electronic Instrumentation	3
	ОВ	Electronic Engineering Project II	6

SPECIALIZATION: Robotics and Artificial Vision		
ОТ	Robotic Systems	6
OT	Advanced Control Techniques	6
OT	Industrial Communications	6
OT	Advanced Robotics ²	6
OT	Industrial Electronics Applications ²	6
ОТ	Industrial Internet of Things	6

(1) Tuition in English available (2) Tuition only in English



BACHELOR'S DEGREE IN AUTOMATION AND INDUSTRIAL ELECTRONIC ENGINEERING

DESCRIPTION

You will become an engineer capable of applying electronics and automation advances to industrial processes: manufacturing, control, intelligent products...

In the past few years, automation has become one of the most important sectors of our economy and will be even more important in the future. Words such as industry 4.0, internet of things, smart grids, smart cities, domotics, robotics, energy efficiency, etc. are starting to form part of our everyday vocabulary. In an almost immediate future, everything will be automated and

connected. As an engineer, you will participate in design of automated systems, in chosing electronic components and systems, in programming these systems, and in their maintenance. You also will be capable of organising and directing the production of a company and its commercial and technical sectors.

bachelor's degree has been recognised as having the professional attributes of a Technical Industrial Engineer. (AQU) (2501133-70106-17

Degree Indicators

Academic performance: 69.5% Graduation rate: 33,3% Dropout rate: 57.1% Satisfaction rate: 7.0 Occupancy rate: 95,0%

TEACHING PROPOSAL

After graduating, you will:

Be proficient in technologies related to automation and industrial electronics, as well as in production, and company management and organization.

Analyze, diagnose and solve automation and industrial electronics problems with a high degree of professionalism.

Collect and interpret relevant data on industrial automation and electronics engineering by means of measurements, calculations and simulations.

Draft and manage projects in the field of automation and industrial electronics, according to specifications, regulations and standards, as well as to communicate information, ideas, problems and solutions to the audience effectively.

Develop a degree of autonomy that will allow them to undertake high-level specialized studies, and subsequent further learning.

Design, analysis, projection and maintenance of electronic and microelectronic systems Commercial organization and management of electronic products and systems Control of electric machines and drives Conception, design, production and maintenance of instrumentation systems, automatic control and robots

