IES POLITÈCNIC

POLITECNIC
Institut d'Educació Secundaria - Castelló de la Plana

IES POLITÈCNIC
Secondary and Vocational Public School
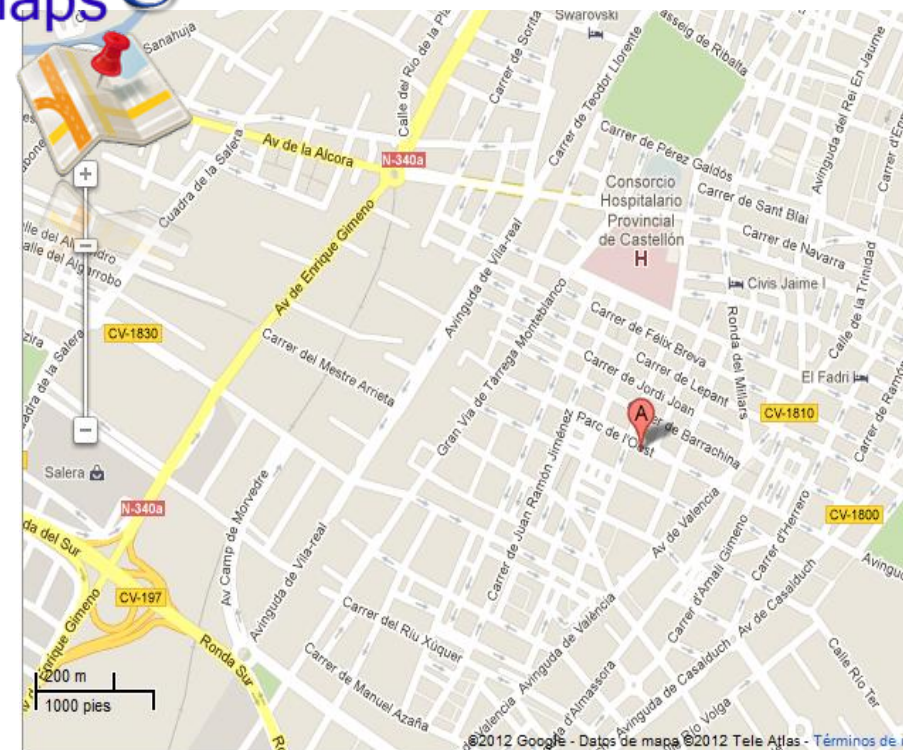**Cantó de Castalia n°1**
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https://iespolitecnicerasmus.wordpress.com

Welcome to IES Politècnic

IES Politècnic was founded initially in 1928 as an Arts and Crafts School. Nowadays it's a public secondary and vocational training school.

History :

1928
Escuela de Artes y Oficios

1967
Instituto Politécnico Nacional

2003...
IES Politècnic

Facts and figures
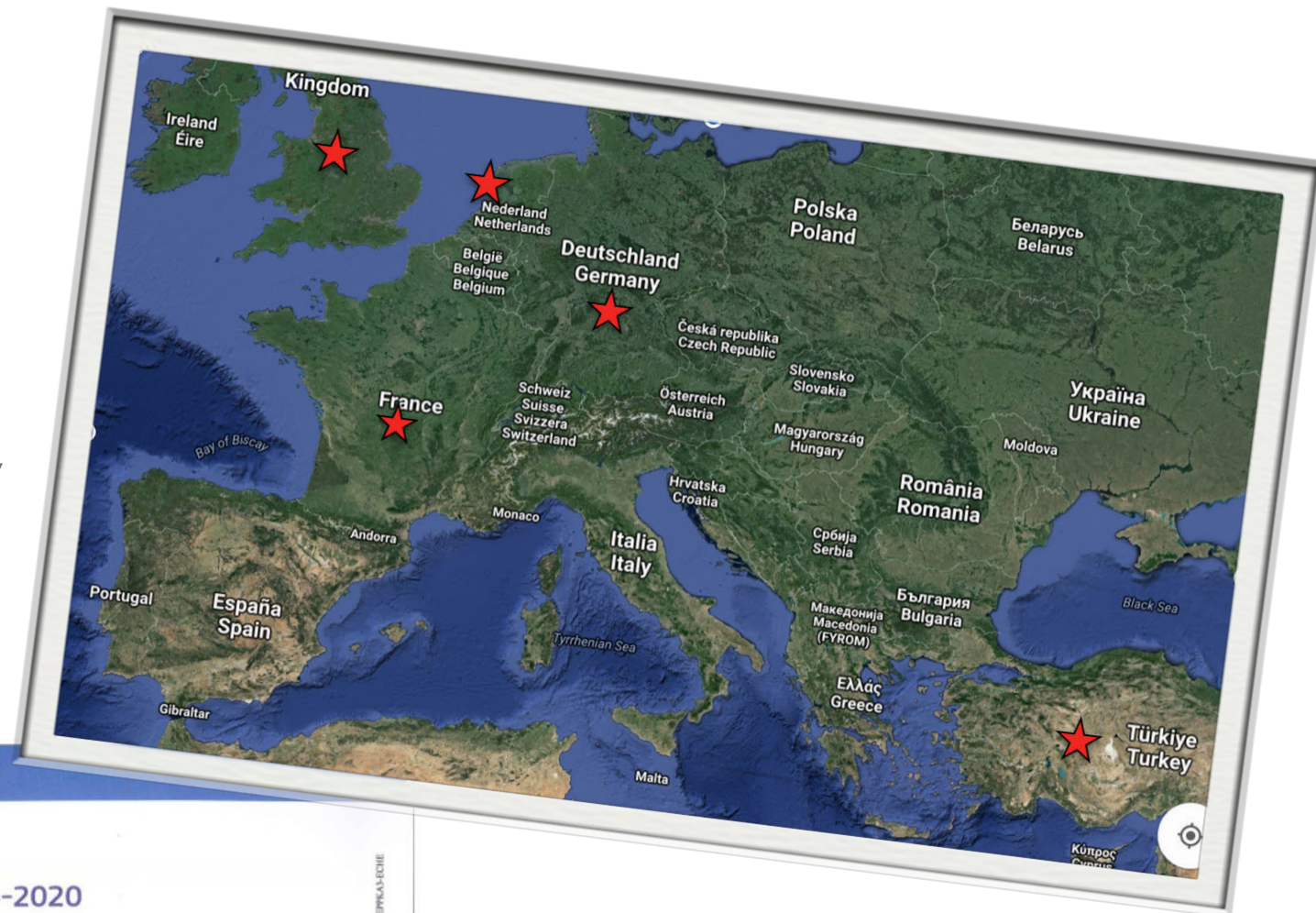
1700 students

150 staff members

30 departments

![Erasmus+ logo with EU flag]

The ERASMUS University Charter (EUC) provides the general framework for all the European cooperation activities, which a higher education institution may carry out within the ERASMUS programme.

IES Politècnic has the Erasmus charter since 2008.

European Commission

ERASMUS CHARTER FOR HIGHER EDUCATION 2014-2020

The European Commission hereby awards this Charter to:

IES POLITÈCNIC

The Institution undertakes to respect the following principles:

+ Respect in full the principles of non-discrimination set out in the Programme and ensure equal access and opportunities to mobile participants from all backgrounds.
+ Ensure full recognition for satisfactorily completed activities of study mobility and, where possible, traineeships in terms of credits awarded (ECTS or compatible system). Ensure the inclusion of satisfactorily completed study and / or traineeship mobility activities in the final record of student achievements (Diploma Supplement or equivalent).
+ Charge no fees, in the case of credit mobility, to incoming mobile students for tuition, registration, examinations or access to laboratory and library facilities.

The Institution further undertakes to:

– When Participating in Mobility Activities –
Before Mobility

+ Publish and regularly update the course catalogue on the website of the Institution well in advance of the mobility periods, so as to be transparent to all parties and allow mobile students to make well-informed choices about the courses they will follow.
+ Carry out mobility only within the framework of prior agreements between institutions. These agreements establish the respective roles and responsibilities of the different parties, as well as their commitment to shared quality criteria in the selection, preparation, reception and integration of mobile participants.
+ Ensure that outgoing mobile participants are well prepared for the mobility, including having attained the necessary level of linguistic proficiency.
+ Ensure that student and staff mobility for education or training purposes is based on a learning agreement for students and a mobility agreement for staff validated in advance between the home and host institutions or enterprises and the mobile participants.
+ Provide assistance related to obtaining visas, when required, for incoming and outgoing mobile participants.
+ Provide assistance related to obtaining insurance, when required, for incoming and outgoing mobile participants.
+ Provide guidance to incoming mobile participants in finding accommodation.

During Mobility

+ Ensure equal academic treatment and services for home students and staff and incoming mobile participants.
+ Integrate incoming mobile participants into the Institution's everyday life.
+ Have in place appropriate mentoring and support arrangements for mobile participants.
+ Provide appropriate linguistic support to incoming mobile participants.

After Mobility

+ Accept all activities indicated in the learning agreement as counting towards the degree, provided these have been satisfactorily completed by the mobile students.
+ Provide incoming mobile participants and their home institutions with transcripts containing a full, accurate and timely record of their achievements at the end of their mobility period.
+ Support the reintegration of mobile participants and give them the opportunity, upon return, to build on their experiences for the benefit of the Institution and their peers.
+ Ensure that staff are given recognition for their teaching and training activities undertaken during the mobility period, based on a mobility agreement.

– When Participating in European and International Cooperation Projects –

+ Ensure that cooperation leads to sustainable and balanced outcomes for all partners.
+ Provide relevant support to staff and students participating in these activities.
+ Exploit the results of the projects in a way that will maximise their impact on individuals and participating institutions and encourage peer learning with the wider academic community.

– For the Purposes of Visibility –

+ Display this Charter and the related Erasmus Policy Statement prominently on the Institution's website.
+ Promote consistently activities supported by the Programme, along with their results.

On behalf of the Institution, I recognise that implementation of the Charter will be monitored and that violation of any of the above principles and commitments may lead to its withdrawal by the European Commission.

-signed-

ÁNGELA ROIG SERRANO
Legal representative

E CASTELLI4

Thanks to the Erasmus programme, IES politècnic has collaborated successfully with companies in different european countries through these years.

The aim of our institution is to maintain our contacts and expand our network of international partners to provide our students and staff with more varied and interesting mobilities for the next years.

Experiences: Incoming students and staff

Erasmus+

Maria Tech from Germany 2014

Ezgi Demirel. Comenius assistant from Turkey 2014

Dutch students from Nova College 2009 and 2010.

The following higher education degrees offered by our College are already eligible to take part in the Erasmus+ Programme.

Design and furnishing

Mechatronics

Motor vehicle maintenance

Mechanical production

• Electrotechnical and Automated Systems
• Electronic maintenance
• Telecommunications & Computers systems
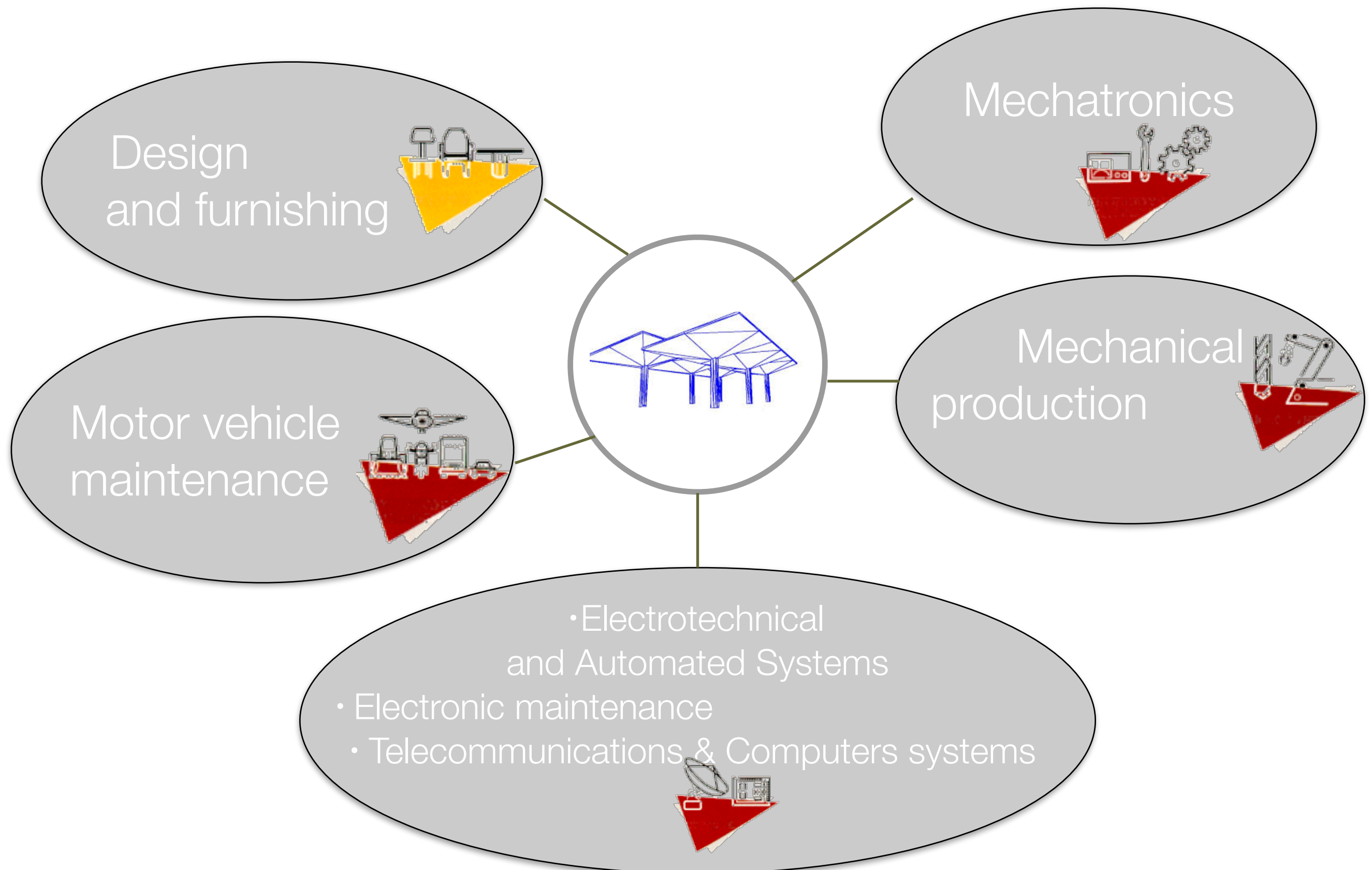
Short cycle in :
Design and furnishing

Professional competences and skills: This degree will qualify professionals for designing furniture and joinery manufacture, managing their production and installation, and participating in the maintenance of quality systems, environmental protection and labour risk prevention

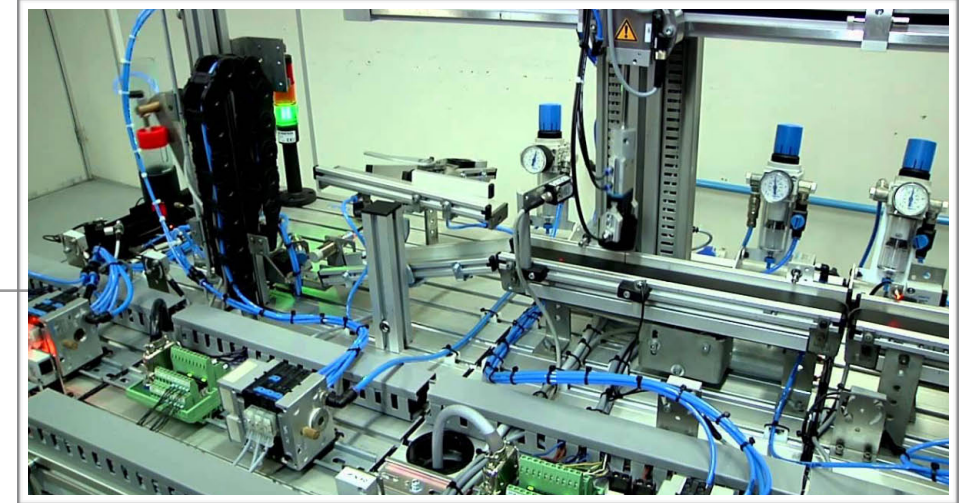| Modules	TEACHING WEEKLY HOURS / ECTS	
	1st year	**2nd year**
	32 weeks	**24weeks**
Processes in carpentry and furniture industries	4	
Manufacture in carpentry and furniture	6	
Technical drawing in Joinery and furniture	5	
Prototypes in carpentry and furniture	4	
Product development in carpentry and furniture	5	
Professional training and guidance	3	
Technical english	3	
Automation in carpentry and furniture		8
Joinery and furniture installation		6
Carpentry and furniture design		5
Production management in carpentry and furniture		6
Business and entrepreneurial initiative		3
Technical english		2
Total	**30 h/week**	**30 h/week**
GENERAL ORGANISATION		
Taught modules	1560 h	
Training period 4th semester - 2nd Year	400 h	
Project on design and furnishing 4th semester 2nd Year	40 h	
TOTAL	**2000**	**120 ECTS**

Carpentry workshops

Short cycle in :
Mechatronics

Professional competences and skills: This degree will qualify professionals for configuring and optimizing industrial mechatronic systems, as well as planning, monitoring and/or executing the assembly and maintenance, following the protocols of quality, safety and for the prevention of occupational risks and environmental protection.

Modules	TEACHING WEEKLY HOURS / ECTS	
	1st year	**2nd year**
	32 weeks	**24weeks**
Mechanical systems	5	
Hydraulic and pneumatic systems	3	
Electrical and electronic systems	5	
Machine elements	3	
Manufacturing processes	5	
Professional training and guidance	3	
Technical english	3	
Graphical representation of mechatronic systems	3	
Configuration of mechatronic systems		7
Processes and management of maintenance and quality		6
Integration of systems		9
Simulation of mechatronic systems		3
Business and entrepreneurial initiative		3
Technical english		2
Total	**30 h/week**	**30 h/week**
GENERAL ORGANISATION		
Taught modules	1560 h	
Training period 4th semester - 2nd Year	400 h	
Project on industrial mechatronics 4th semester 2nd Year	40 h	
TOTAL	**2000**	**120 ECTS**

Electro-pneumatic sequential control using Arduino
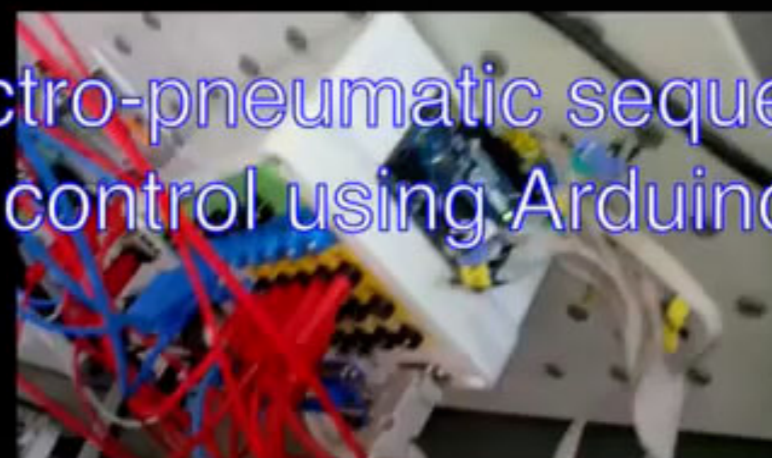
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Mechatronics laboratory

Short cycle in :
Motor vehicle maintenance

Professional competences and skills: This degree will qualify professionals for organising, scheduling and supervising the performance of maintenance operations and the logistics thereof in the motor vehicle industry, diagnosing failures in complex cases, and ensuring compliance with applicable regulatory and manufacturer's specifications.

Modules	TEACHING WEEKLY HOURS / ECTS	
	1st year	**2nd year**
	32 weeks	**24weeks**
Electric, safety and comfort systems	6	
Force Transmission Systems and Running Gear	6	
Heat Engines and Their Auxiliary Systems	6	
Non-structural Removable and Fixed Elements	6	
Technical english	3	
Professional training and guidance	3	
Vehicle Structural Parts		10
Surface Treatment and Coating		6
Vehicles Maintenance Management and Logistics		6
Communication and Relationships Techniques		3
Business and entrepreneurial initiative		3
Technical english		2
Total	**30 h/week**	**30 h/week**
GENERAL ORGANISATION		
Taught modules	1560 h	
Training period 4th semester - 2nd Year	400 h	
Project on motor vehicles 4th semester 2nd Year	40 h	
TOTAL	**2000**	**120 ECTS**

Motor vehicle maintenance
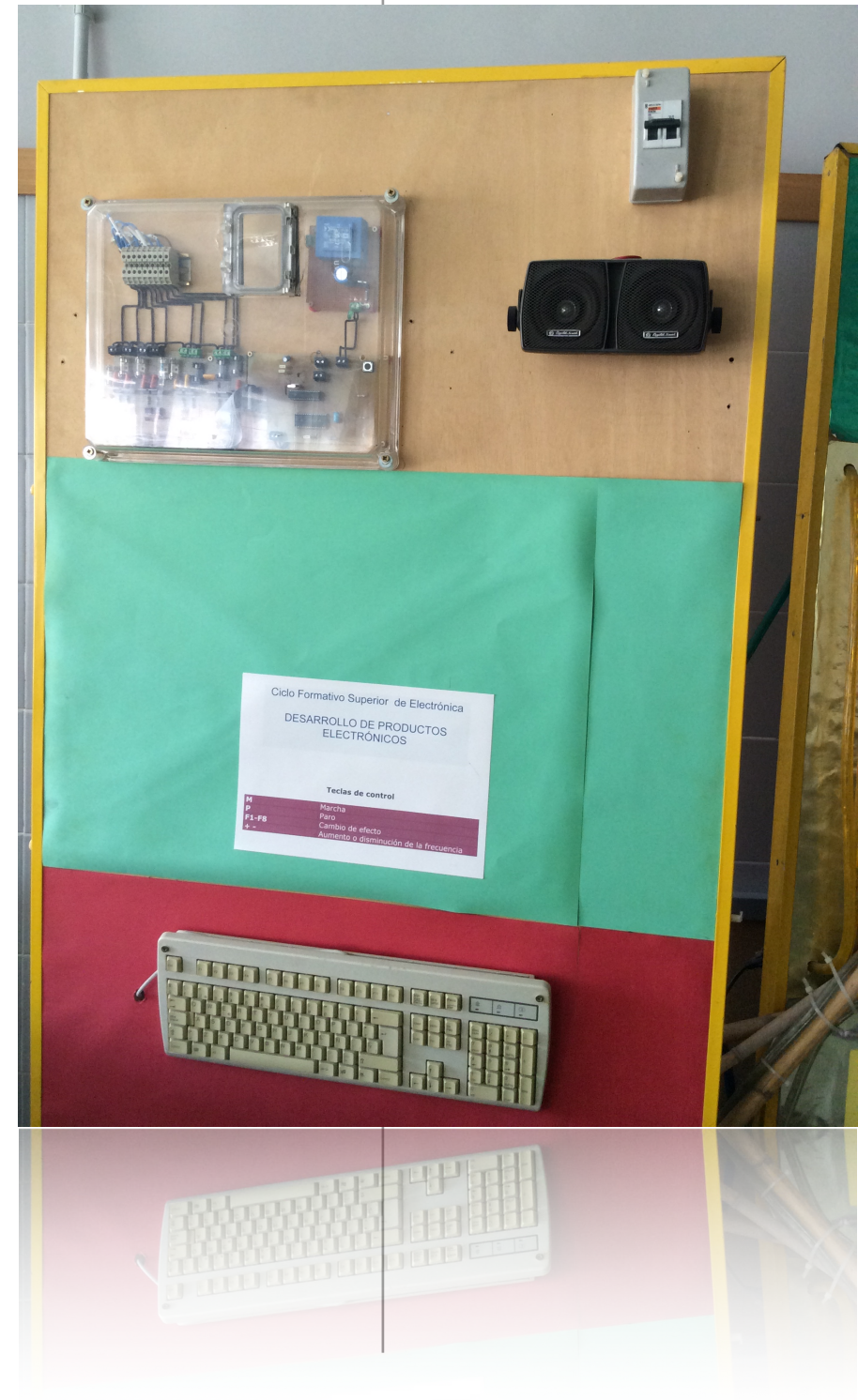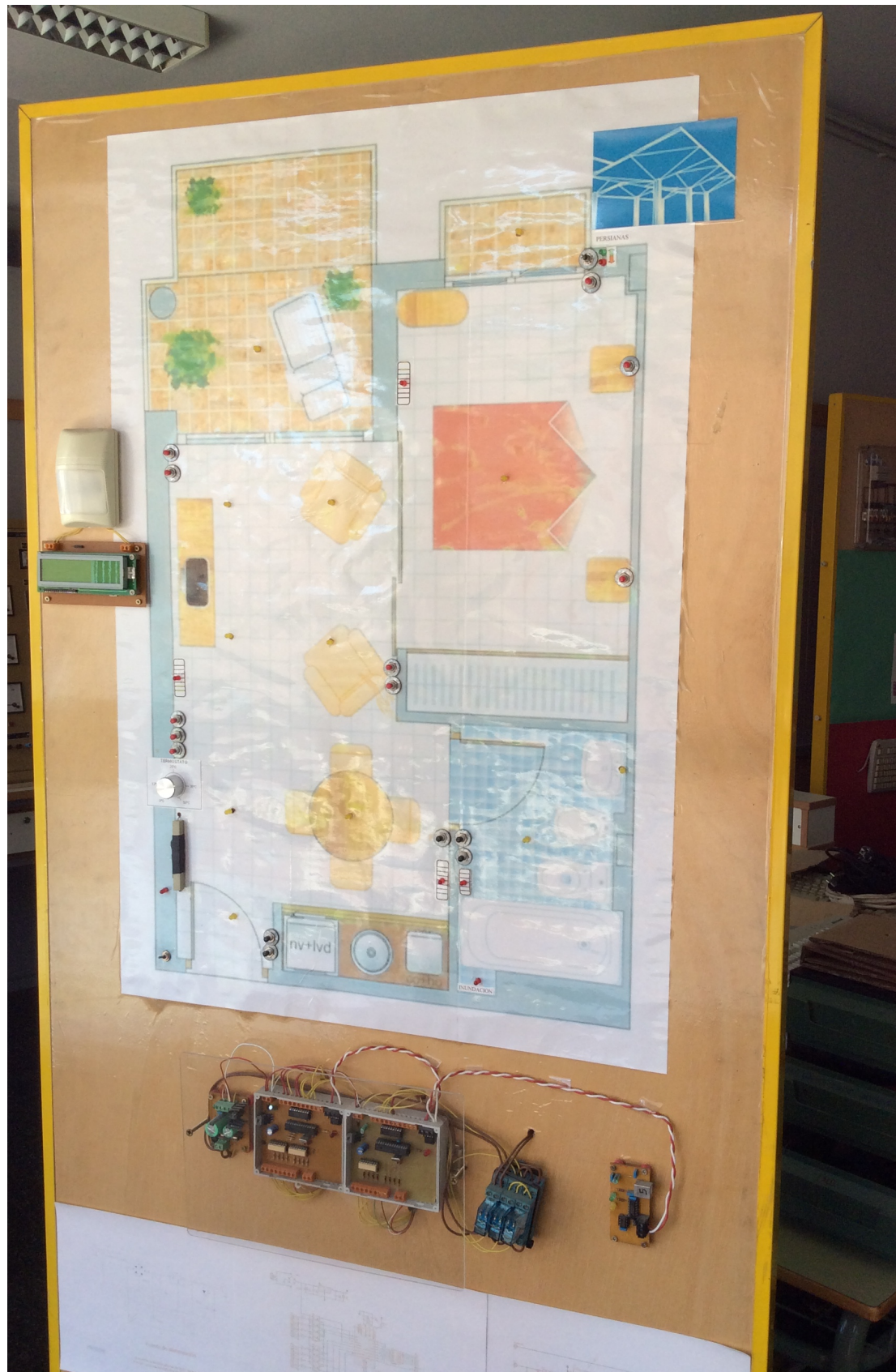
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Car service workshops

Short cycle in :
Electronic maintenance

Professional competences and skills: This degree will qualify professionals for maintaining and repairing electronic, professional, industrial and consumption systems and equipment, as well as planning and organizing maintenance processes, applying occupational and environmental risk prevention plans, quality criteria and the applicable laws and rules.

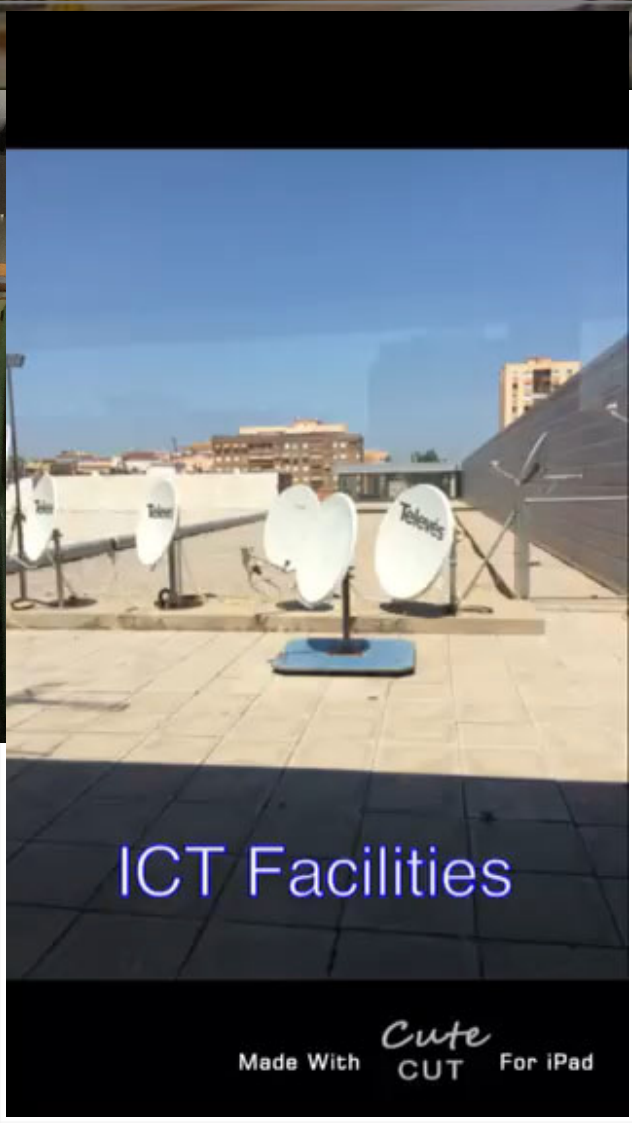| Modules	TEACHING WEEKLY HOURS / ECTS	
	1st year	**2nd year**
	32 weeks	**24weeks**
Analogical Electronic Circuits	7	
Microprogrammable Equipment	6	
Maintenance of Industrial Electronics Equipment	5	
Assembly Processes and Techniques and Maintenance of Electronic Equipment	6	
Technical english	3	
Professional training and guidance	3	
Radio-Communications Equipment		6
Maintenance of Voice and Data Equipment		6
Maintenance of video Equipment		5
Infraestructures and Development of Electronic Maintenance		3
Maintenance of Audio Equipment		5
Business and entrepreneurial initiative		3
Technical english		2
Total	**30 h/week**	**30 h/week**
GENERAL ORGANISATION		
Taught modules	1560 h	
Training period 4th semester - 2nd Year	400 h	
Project on electronic maintenance 4th semester 2nd Year	40 h	
TOTAL	**2000**	**120 ECTS**

Electronic maintenance laboratory

Short cycle in :
Telecommunications and Computer Systems

Professional competences and skills: This degree will qualify professionals for Developing projects as well as managing and supervising the assembly and the maintenance of common telecommunication infrastructures and telecommunication systems and equipment such as broadband networks and fixed and mobile radio, electronic systems, audiovisual production and transmission, based on technical documentation, regulations and procedures, ensuring the performance, the quality, the safety and the environmental conservation.

Modules	TEACHING WEEKLY HOURS / ECTS	
	1st year	**2nd year**
	32 weeks	**24weeks**
Configuration of Telecommunication System Infrastructures	4	
Elements of Telecommunications Systems	3	
Computer Systems and Local Networks	6	
Techniques and Processes in Telecommunication Infrastructures	3	
Management of Projects of Telecommunication Installations	3	
Systems of Fixed and Mobile Telephony	5	
Technical english	3	
Professional training and guidance	3	
Audiovisual Production Systems		7
Electronic networks		6
Radiocommunication Systems		6
Integrated Systems and Digital Home		6
Business and entrepreneurial initiative		3
Technical english		2
Total	**30 h/week**	**30 h/week**
GENERAL ORGANISATION		
Taught modules	1560 h	
Training period 4th semester - 2nd Year	400 h	
Project on electronic maintenance 4th semester 2nd Year	40 h	
TOTAL	**2000**	**120 ECTS**

ICT Facilities

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CASTELLÓN

Short cycle in :
Electrotechnical and Automated Systems

Professional competences and skills: This degree will qualify professionals for Developing projects, managing and supervising the assembly and the maintenance of electrotechnical installations in accordance with the Spanish electrotechnical low voltage regulation (REBT Spanish initials). He/she also supervises the maintenance of installations in common telecommunications infrastructures, from technical documentation, specifications, established regulations and procedures, ensuring the functioning, the quality, the safety and the preservation of the environment.

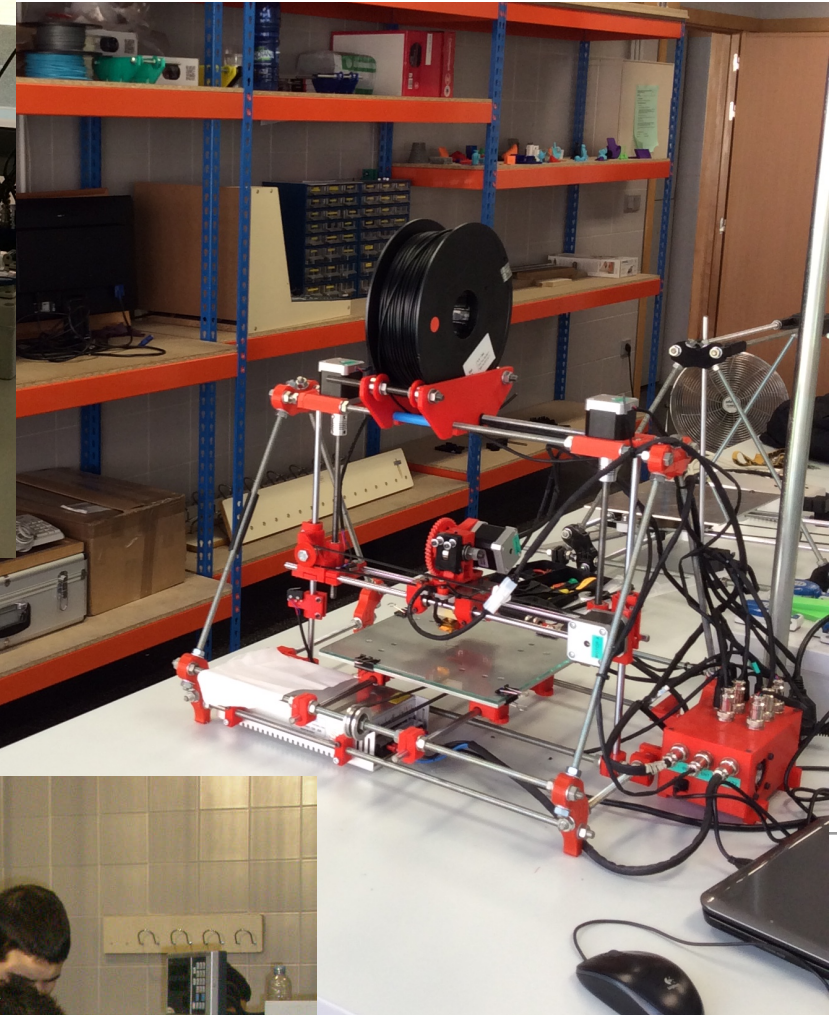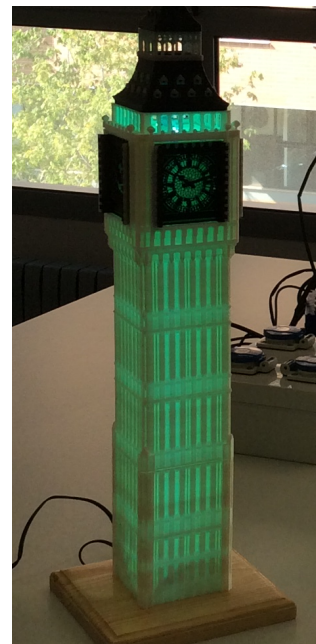| Modules	TEACHING WEEKLY HOURS / ECTS	
	1st year	2nd year
	32 weeks	24weeks
Technical Documentation in Electrical Installations	3	
Electrical Systems and Circuits	4	
Development of Electrical Networks and Electrical Substations	4	
Configuration of Domotic and Automatic Installations	5	
Electrical Installations Configuration	5	
Management of the Assembly and the Maintenance of Electrical Installations	3	
Technical english	3	
Professional training and guidance	3	
Processes in Common Telecommunications Infrastructure Installations		7
Electrical Installations Techniques and Processes		9
Techniques and Processes in Home Automation and Automatic Installations		9
Business and entrepreneurial initiative		3
Technical english		2
Total	**30 h/week**	**30 h/week**
GENERAL ORGANISATION		
Taught modules	1560 h	
Training period 4th semester - 2nd Year	400 h	
Project on electronic maintenance 4th semester 2nd Year	40 h	
TOTAL	**2000**	**120 ECTS**

Electrotechnical laboratories.

Short cycle in :
Mechanical Production Scheduling

Professional competences and skills: This degree will qualify professionals for Planning, scheduling and monitoring the machining and fitting of equipment manufacturing process, from the documentation of the process and specifications of the products to be manufactured, ensuring management and products quality, as well as the supervision of labour risk prevention and environmental protection systems.

Modules	TEACHING WEEKLY HOURS / ECTS	
	1st year	**2nd year**
	32 weeks	**24weeks**
Graphical Interpretation	4	
Definition of the Processes of Machining, Shaping and Fitting	5	
Manufacturing Processes Implementation	6	
Machined Automatic Systems Programming	5	
Products Verification	4	
Technical english	3	
Professional training and guidance	3	
Machining Through Computer Numerical Controlled Machine Tools		10
Computer-aided Manufacturing (CAM)		4
Quality Management, Labour Risk Prevention and Environmental Protection		5
Production Scheduling		6
Business and entrepreneurial initiative		3
Technical english		2
Total	**30 h/week**	**30 h/week**
GENERAL ORGANISATION		
Taught modules	1560 h	
Training period 4th semester - 2nd Year	400 h	
Project on electronic maintenance 4th semester 2nd Year	40 h	
TOTAL	**2000**	**120 ECTS**

Metal workshops

3D Printers in Mechanical Production

![Erasmus+ logo]

Become a partner!!

Thank you for watching,

IES POLITÈCNIC

Erasmus coordinator: **Estela Marqués**

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