



LIST OF COURSES TAUGHT IN ENGLISH LANGUAGE (ACADEMIC YEAR 2022-2023)

Bachelor Degree Key Colours	MEC: Mechanical Engineering	E&A: Industrial Electronics and Control Engineering
	EE: Electrical Engineering	ICHE: Industrial Chemical Engineering
	SW: Software Engineering	TELCO: Telecommunications Engineering
	IE: Industrial Engineering	ITE: Industrial Technology Engineering
COURSES IN BLACK: Common to MEC, EE, E&A, ITE, ICHE, and IE		

First Year (Freshmen). MEC, E&A, EE, ICHE, SW, TELCO, IE			
First/Autumn Semester	ECTS	Second/Spring Semester	ECTS
Linear Algebra	6	Statistics	6
Calculus	6	Waves and Electromagnetism	6
Business	6	Graphic Expression	6
Foundations of Computer Science	6	Numerical Methods	6
Mechanics and Thermodynamics	6	Chemistry	6
Introduction to Programming	6	Foundations of Computers and Network	6
Foundations of Computer Science		Programming Methodology	6
		Advanced Calculus	6
		Electronic and Photonic Devices	6
		Circuit Theory	6

Second Year (Sophomore). MEC, E&A, EE, ICHE, SW, TELCO			
First/Autumn Semester	ECTS	Second/Spring Semester	ECTS
Thermal Engineering	6	Theory of Machines and Mechanisms	6
Manufacturing Processes	6	Fluid Mechanics	6
Electrical Engineering Fundamentals	6	Electronic Technology	6
Strength of Materials	6	Automation and Control Systems	6
Advanced Calculus	6	Material Science	6
Computer Electronics	6	Numeric Computing	6
Computability	6	Operating Systems	6
Computer Architecture	6	Data Bases	6
Data Structures	6	Human Machine Interface	6
Algorithms	6	Programming Paradigms and Technologies	6
Signals and Systems	6	Digital Electronics	6
Numerical Methods	6	Network and Systems Architecture	6
Fundamentals of Telematics	6	Communication Theory	9
Fundamentals Analog Electronics	6	Propagation and Radiation	9
Programming	6		

Third Year (Junior). MEC, ITE			
First/Autumn Semester	ECTS	Second/Spring Semester	ECTS
Industrial Drawing	6	Environmental Technology	6
Machine Design	6	Operations Management	6
Applied Heat Transfer	6	Theory of Structures and Industrial Constructions	6
Fluid Machinery and Systems	6	Industrial Automation	9
Electronic Technology	6	Electric Machines	6
Fluid Mechanics	6	Thermal Equipment and Engines	6
Graphic Expression II	6	Theory of Structures	6
Environmental Technology	6	IT Infrastructure	6
Basic Communication Services	6	Distributed Systems	6
Digital Communications	6	Intelligent Systems	6
Telecommunication Systems	6	Information Systems	6
Microprocessors and Microcontrollers	6	Multimedia and Interactive Services	6
Electric Energy Conversion	6	Network Engineering	6



Fourth Year (Senior).			
First/Autumn Semester	ECTS	Second/Spring Semester	ECTS
Process Monitoring and Control (E&A)	6	Internship (aka External Practices) (MEC, E&A, EE, ICHE, ITE, SW, TELCO, IE)	6
Fluid Power: Hydraulic and Pneumatic Technologies (MEC)	6	Bachelor Thesis (aka Graduation Final Work) (MEC, E&A, EE, ICHE, ITE, SW, TELCO, IE)	12
Perception Systems (E&A)	6	Techniques for Oral and Written Expression in English (MEC, E&A, EE, ICHE, ITE, IE, TELCO)	6
Industrial Facilities (MEC)	6		
Industrial Electronics (ITE)	6		
Machine Technology (ITE)	6		

MASTER'S DEGREES	
Master's Degrees Links	Master's Degree in Electrical Energy Conversion and Power Systems
	Erasmus Mundus Master's Degree in Sustainable Transportation and Electrical Power Systems

INSTRUCTIONS TO ACCESS COURSE'S SYLLABUS

In case the direct links to the courses' syllabus of the previous page fail, click on the desired link bellow and follow these instructions.

Degree Descriptions	MEC: Mechanical Engineering	E&A: Industrial Electronics and Automatic Control Engineering
	EE: Electrical Engineering	ICHE: Industrial Chemical Engineering
	IE: Industrial Technology Engineering	TELCO: Telecommunications Engineering
	SW: Software Engineering	IE: Industrial Engineering

In the browser window proceed as follows:

1. Choose English language by clicking on the English flag.
2. Choose the menu option "Curriculum" to access the selected degree information.
3. Choose the tab "Teaching Guides and Subject Schedules" to access the list of courses organised by years.
4. Finally, click on the course name to get access to the course general information and the course syllabus.

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CURRICULUM STRUCTURE AND PLANNING. TEACHING GUIDES AND SCHEDULE

Academic course: 2014-2015
Code: GIMECA01
Name: Bachelor's Degree in Mechanical Engineering
Year of implementation: 2010-2011

General description | **Teaching Guides and Subject Schedules**

COURSES IN THE YEAR 1

Course	Credits	Duration	Type	Module	Subject
Numerical Methods	6.0	Second Semester	Core	-	-
Calculus	6.0	First Semester	Core	-	-
Statistics	6.0	Second Semester	Core	-	-



5. Click on “Teaching Guide” to access the course syllabus.

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COURSE INFORMATION

Academic course: 2014-2015
Educational offer: Bachelor's Degree in Mechanical Engineering
Code: GIMECA01-1-002
Name: Numerical Methods

General description and schedule | **Teaching Guide** 5

ACADEMIC YEAR:
Selected academic year: 2014-2015

COORDINATOR/S:
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6. If you want to select a different course click on “Back to the list of courses”.