



## LIST OF COURSES TAUGHT IN ENGLISH LANGUAGE (ACADEMIC YEAR 2020-2021)

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

<b>First Year (Freshmen). MEC, E&amp;A, EE, ICHE, SW, TELCO, IE</b>			
<b>First/Autumn Semester</b>	<b>ECTS</b>	<b>Second/Spring Semester</b>	<b>ECTS</b>
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
		Programming Methodology	6
		Advanced Calculus	6
		Electronic and Photonic Devices	6
		Circuit Theory	6

<b>Second Year (Sophomore). MEC, E&amp;A, EE, ICHE, SW, TELCO</b>			
<b>First/Autumn Semester</b>	<b>ECTS</b>	<b>Second/Spring Semester</b>	<b>ECTS</b>
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		
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
Analogue Electronics Fundamentals	6	Propagation and Radiation	9
Programming	6		

<b>Third Year (Junior). MEC, ITE</b>			
<b>First/Autumn Semester</b>	<b>ECTS</b>	<b>Second/Spring Semester</b>	<b>ECTS</b>
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	Advanced Techniques of Simulation in Electrical Engineering (EE)	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

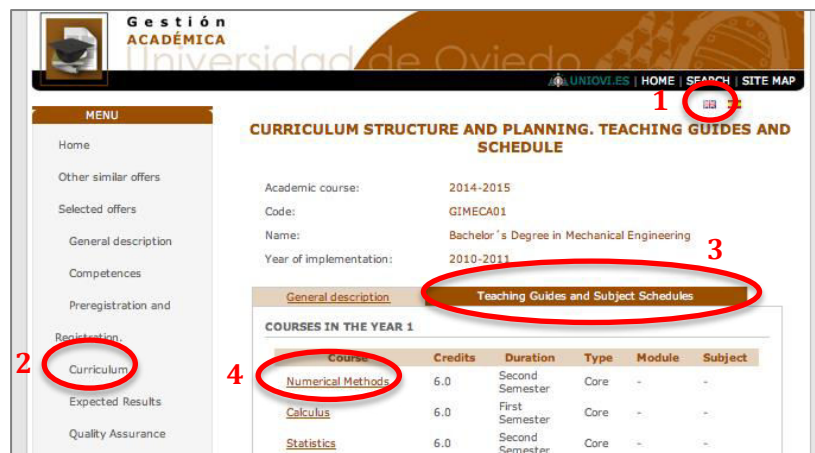
### INSTRUCTIONS TO ACCESS COURSE'S SYLLABUS

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	<a href="#">MEC: Mechanical Engineering</a>	<a href="#">E&amp;A: Industrial Electronics and Automatic Control Engineering</a>
	<a href="#">EE: Electrical Engineering</a>	<a href="#">ICHE: Industrial Chemical Engineering</a>
	<a href="#">IE: Industrial Technology Engineering</a>	<a href="#">TELCO: Telecommunications Engineering</a>
	<a href="#">SW: Software Engineering</a>	<a href="#">IE: Industrial Engineering</a>

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
<b>Numerical Methods</b>	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**

**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".