

ECTS INFORMATION PACK YEAR 2008-09

1. INFORMATION ABOUT THE MOBILITY COORDINATOR

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2. DESCRIPTION OF THE SCHOOL OF CHEMICAL ENGINEERING

Below is a list of the postgraduate courses that are taught at the School of Chemical Engineering

Chemical Engineering.
Industrial Engineering, specializing in Mechanics.
Technical Industrial Engineering, specializing in Industrial Chemistry.
Master in Environmental Engineering.
Master's Degree in Chemical and Process Engineering.
Master's Degree in Nanoscience and Nanotechnology.

School of Chemical Engineering web site: <http://www.etseq.urv.es/etseq/>

Websites of the Departments

Department of Chemical Engineering: <http://www.etseq.urv.es/DEQ/>
Department of Mechanical Engineering: <http://www.etseq.urv.es/DEM/>

3. DESCRIPTION OF THE PROGRAMME IN INDUSTRIAL ENGINEERING, SPECIALIZING IN INDUSTRIAL CHEMISTRY

Minimum length of the course: 3 years (diploma)

Number of credits: 235.5 credits (178.5 compulsory and core, 33 optional and 24 free choice).

* Credits are used as units of evaluation in teaching programmes. Each subject in the curriculum has an equivalent number of credits. Each credit corresponds to ten hours of theoretical or practical classes or their equivalent. The award of credits is subject to the systems of the University for verifying the acquisition of knowledge..

For the University's own subjects adapted to the EHEA system, which follow the teaching methodology of the ECTS system, 25-30 hours of a student's workload are equivalent to 1 credit.

The subjects on the curricula are of the following types:

1. Core subjects. These are set by the Spanish Ministry of Education and Culture, and must be included in all curricula leading to the award of the same official

degree.

2. Compulsory subjects. These subjects are set by the University as an obligatory part of a student's degree course.

3. Optional subjects. These subjects are set by each University. They are included in the University's curricula and students may select from the range of subjects available.

4. Free-choice subjects. Each University includes a percentage of these subjects as part of its total teaching load in each curriculum.

For further information regarding Industrial Engineering, specializing in Mechanics, go to:

- Subjects:
https://moodle.urv.net/docnet/guia_docent/index.php?centre=20&ensenyament=2002&consulta=assignatures
- Timetables http://www.etseq.urv.cat/home/arxiu/horaris/2008-2009/Horaris_ETIQI_2008-09.pdf
- Calendar:
https://moodle.urv.net/docnet/guia_docent/index.php?centre=20&apartat=30&subapartat=357

Language in which subjects are taught:

- English is used to teach the subjects of Master's Degree in Chemical and Process Engineering and the Master in Environmental Engineering such as “**Optional subjects for Intensifying RESEARCH**”, as well as all the subjects in the Master's Degree in Nanoscience and Nanotechnology.
- Catalan and or Spanish are used to teach the remaining subjects without some exceptions (see “Language” in the previous subject section).

4. RECOMMENDED SEQUENCE OF COURSES FOR THE INDUSTRIAL ENGINEERING PROGRAMME, SPECIALIZING IN INDUSTRIAL CHEMISTRY

COMPULSORY AND CORE SUBJECTS

FIRST YEAR

<u>First semester</u>	URV Credits	ECTS Credits	<u>Second semester</u>	URV Credits	ECTS Credits
Algebra	4.5	4	Introduction to Computing	6	4
Calculus	9	8	Numerical Methods	4.5	4
Fundamentals of Chemical Engineering	6	6	Chemical Laboratory I	6	4
Fundamentals of Chemistry	6	6	Thermoelectrochemistry	7.5	6

Applied Statistics	6	4	Organic Chemistry	6	6
Principles of Physics	9	8	Analytic Chemistry	6	6

SECOND YEAR

<u>First semester</u>	URV Credits	ECTS Credits	<u>Second semester</u>	URV Credits	ECTS Credits
Applied Kinetics	6	6	Advanced Graphic Expression (Extracurricular courses)	6	6
Graphic Expression in Chemical Engineering	6	4	Chemical Engineering Laboratory	6	4
Fluid Mechanics	6	6	Process Control	6	6
Engineering	6	4	Thermal Engineering	6	6
Chemical Laboratory II	6	6	Corrosion (optional)	6	6
Electric Technology	9	8	Tribiology i	6	6
Industrial Chemistry	6	4	Lubrications (optional)	4.5	4
English (optional)			Basic Separation Operations (optional)	4.5	4
			Unitary Operations Laboratory (optional)	6	4
			Transport Phenomena (optional)	6	6
			Applied Kinetics		

THIRD YEAR

<u>First semester</u>	URV Credits	ECTS Credits	<u>Second semester</u>	URV Credits	ECTS Credits
Environmental Pollution	3	4	End-of-degree project	6	15
Economy and Industrial	6	6	End-of-degree project	6	0

Organisation					
Control Elements	6	6	Industrial Maintenance (optional)	6	6
Fluid Dynamics Engineering Laboratory	3	2	Industrial practices (6) (optional)	6	4
Thermal Engineering Laboratory	3	2	Industrial practices. (optional)	9	6
Technical Office in Chemical Engineering	6	6	Industrial practices (12) (optional)	12	8
Calculating and Designing Heat Exchange	4.5	4	Environmental Control and Monitoring (optional)	6	6
Statistics and Maintenance (optional)	6	6	Communication Techniques in Engineering (optional)	3	2
Design of Chemical Reactors	6	6			
Machinery and Maintenance (optional)	6	6			
Simulation of Unitary Options (optional)	4.5	4			