

M. Sc. Elect. Eng.(IE) FIFTH YEAR (All credits are ECTS credits)

Code	Term	MODULE'S NAME	Type	Cred.	Theo.	Lab.
13077	Both	Electronic Equipment	CO	9	6	3
13089	Both	Electronic Systems for Information Processing	CO	12	7.5	4.5
13091	both	Telematic systems	CO	9	6	3
13084	2 nd	Projects	CO	6	4.5	1.5
13085	1 st	Automatic Regulation	CP	4.5	3	1.5
13072	1 st	Electromagnetic Compatibility	CP	4.5	3	1.5
13088	2 nd	Advanced Digital Systems	CP	4.5	3	1.5
13083	2 nd	Final Degree Project	CP	15		
		Elective	EL	4.5		
		Free Choice	FC	4.5		
		TOTAL		73.5		

ELECTIVE SUBJECTS (All credits are ECTS credits)

Code	Term	Year	MODULE's NAME	Cred.	Theo.	Lab.
13075	1st	4th	Power Systems Design	6	3	3
12739	1st	4th	Electromagnetic waves	6	6	0
13078	2nd	4th	Digital Filtering	6	3	3
13092	1st	5th	Advanced Techniques for Information Processing	4.5	3	1.5
13079	1st	5th	Biomedical Engineering	6	4.5	1.5
13076	2nd	5th	High Speed Digital Design	7.5	4.5	3
13087	2nd	5th	Instrumentation Systems	4.5	1.5	3
13051	2nd	5th	Robotics	6	4.5	1.5

4.- Information about Valencia

General information about the University of Valencia:

<http://www.uv.es/dise/en/index.html>

General information about the city:

<http://www.uv.es/~anamat/valencia.html>

Municipality of Valencia:

<http://www.ayto-valencia.es/>

M.Sc. in ELECTRONICS ENGINEERING



ACADEMIC YEAR 2004/2005

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1.- Structure and organization of curriculum

Degree: M.Sc. in Electronics Engineering.

Cycle: Second (M.Sc.)

Minimal Period of Lectures: 2 years

1st Semester: last week of September until mid February.

2nd Semester: mid February until end of June

Arrangement of the career in credits: (1 ECTS = 10 tuition hours)

Credits' arrangement		ECTS
CORE	(CO)	81
COMPULSORY	(CP)	18
ELECTIVE	(EL)	13.5
FREE CHOICE	(FC)	14.5
FINAL PROJECT		15
Total credits		142

Note: All students must attend to the whole core and compulsory subjects. They must select optional modules in order to fulfil the required 13.5 credits.

Free choice can be chosen out of any subject proposed in any degree at the Universidad de Valencia.

New Access Vacancies per year: 50

Information for Socrates-Erasmus students coming to this study plan

- For regular course subjects, tuition language is Spanish.
- Some subjects take two semesters, some others are taught only during 1st or 2nd semester (see included tables below).
- There exists the possibility to make the exchange for the Final Project. In this case, the language can be English.
- Stages can be done for the whole academic year or they might take one semester (elected by the student).

Location

Facultad de Física. Burjassot-Paterna Campus. University of Valencia

Departamento de Ingeniería Electrónica.

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Web: <http://www.uv.es/~ingelec/visitors/index.html>

<http://centros.uv.es/web/centros/etse/ingles>

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Socrates coordinators: Javier Calpe. e-mail: Javier.Calpe@uv.es

Alfredo Rosado: e-mail: Alfredo.Rosado@uv.es

2.- Professional Skills

The Electronics Engineer from the University of Valencia is trained to perform correctly in several branches of the electronics industry, e.g.:

- Electronics Instrumentation
- Electronic Systems (analogue and digital) for information processing
- Power Electronics
- Telematics
- Digital Signal Processing

This degree is conceived to respond the professional requirements of industry. Possible environments for our graduates are:

- Project managing in R+D departments.
- Development of products and technologies.
- Technology transfer.

These tasks can be developed in companies in the electronics, communication, computing, automotive, medical sector, and, in general, in any company that uses electronics as a relevant part of its production process. The scientific basis that back our engineers, enable them to carry out research (scientific and technological) in Universities and Public or Private Research Organisations. Anyway, these bases will ease their future re-cycling that should assure a perfect update in their future work in Electronics.

3.- Subject's Map

COMPLEMENTARY MODULES (All credits are ECTS credits)

Code	Term	MODULE'S NAME	Type	Cred.	Theo.	Lab.
13095	both	Analysis of Linear Circuits and Systems	CP	9	7.5	1.5
13116	1st	Microelectronics	CP	6	3	3
13097	both	Digital Electronic Devices and Circuits	CP	10.5	6	4.5
13100	both	Analog Electronics I	CP	12	7.5	4.5

M. Sc. Elect. Eng.(IE) FOURTH YEAR (All credits are ECTS credits)

Code	Term	MODULE'S NAME	Type	Cred.	Theo.	Lab.
13080	both	Electronic Instrumentation	CO	12	6	6
13094	both	Processing and Transmission of Signals	CO	9	6	3
13074	both	Electronic Circuits and Systems Design	CO	12	7.5	4.5
13073	1st	Electronics & Photonic Devices	CO	7.5	6	1.5
13093	2nd	Electronics & Photonic Device Technology	CO	4.5	3	1.5
13082	1st	Digital Signal Processing	CP	4.5	3	1.5
		Elective	EL	9		
		Free Choice	FC	10		
		TOTAL		69		