

330110 - MI - Microcomputers

Coordinating unit:	330 - EPSEM - Manresa School of Engineering		
Teaching unit:	750 - EMIT - Department of Mining, Industrial and ICT Engineering		
Academic year:	2019		
Degree:	BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Compulsory)		
ECTS credits:	6	Teaching languages:	Catalan

Teaching staff

Coordinator: JESUS VICENTE RODRIGO

Degree competences to which the subject contributes

Specific:

- (ENG) La capacitat d'especificar, analitzar, dissenyar, avaluar i documentar sistemes basats en microcomputadors, així com les seves alternatives d'implementació.
- (ENG) La capacitat d'emprar les eines i els llenguatges de programació dels microcomputadors.
- (ENG) El coneixement i la capacitat d'emprar les eines i la instrumentació existents per a l'anàlisi, el disseny, el desenvolupament i la verificació de sistemes electrònics, informàtics i de comunicacions.

Transversal:

- THIRD LANGUAGE. Learning a third language, preferably English, to a degree of oral and written fluency that fits in with the future needs of the graduates of each course.
- EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 3. Communicating clearly and efficiently in oral and written presentations. Adapting to audiences and communication aims by using suitable strategies and means.
- SELF-DIRECTED LEARNING - Level 3. Applying the knowledge gained in completing a task according to its relevance and importance. Deciding how to carry out a task, the amount of time to be devoted to it and the most suitable information sources.
- EFFECTIVE USE OF INFORMATION RESOURCES - Level 3. Planning and using the information necessary for an academic assignment (a final thesis, for example) based on a critical appraisal of the information resources used.

Learning objectives of the subject

Study load

Total learning time: 150h	Hours large group:	45h	30.00%
	Hours medium group:	0h	0.00%
	Hours small group:	15h	10.00%
	Guided activities:	0h	0.00%
	Self study:	90h	60.00%

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Content

(ENG) 1. INTRODUCCIÓ	Learning time: 6h Theory classes: 3h Self study : 3h
(ENG) 2. ARQUITECTURA D'UN MICROCOMPUTADOR	Learning time: 35h Theory classes: 12h Practical classes: 1h Self study : 22h
(ENG) 3. PROGRAMACIÓ D'UN MICROCOMPUTADOR	Learning time: 84h Theory classes: 22h Practical classes: 12h Self study : 50h
(ENG) 4. MEMÒRIES	Learning time: 25h Theory classes: 8h Practical classes: 2h Self study : 15h

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Planning of activities

(ENG) 1. CLASSE EXPOSITIVA I DE PROBLEMES	Hours: 41h Theory classes: 41h
(ENG) 2. CLASSE DE LABORATORI	Hours: 45h Laboratory classes: 15h Self study: 30h
(ENG) 3. TREBALL PERSONAL INDIVIDUAL/EN GRUP	Hours: 30h Self study: 30h
(ENG) 4. PROVES	Hours: 34h Theory classes: 4h Self study: 30h

Bibliography

Basic:

Manuels de referència.

Notes d'aplicació del fabricant.