

300312 - PE-OAT - Engineering Projects

Coordinating unit:	300 - EETAC - Castelldefels School of Telecommunications and Aerospace Engineering
Teaching unit:	744 - ENTEL - Department of Network Engineering
Academic year:	2016
Degree:	BACHELOR'S DEGREE IN NETWORK ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN AIR NAVIGATION ENGINEERING (Syllabus 2010). (Teaching unit Optional) BACHELOR'S DEGREE IN AIRPORT ENGINEERING (Syllabus 2010). (Teaching unit Optional) BACHELOR'S DEGREE IN AEROSPACE SYSTEMS ENGINEERING (Syllabus 2015). (Teaching unit Optional) BACHELOR'S DEGREE IN TELECOMMUNICATIONS SYSTEMS ENGINEERING (Syllabus 2009). (Teaching unit Optional)
ECTS credits:	6
Teaching languages:	Catalan, Spanish

Teaching staff

Coordinator:	Oller Arcas, Antonio
Others:	Alcober Segura, Jesus Angel Remondo Bueno, David

Degree competences to which the subject contributes

Transversal:

- 01 EIN N3. ENTREPRENEURSHIP AND INNOVATION - Level 3. Using knowledge and strategic skills to set up and manage projects. Applying systemic solutions to complex problems. Devising and managing innovation in organizations.
- 07 AAT N2. SELF-DIRECTED LEARNING - Level 2: Completing set tasks based on the guidelines set by lecturers. Devoting the time needed to complete each task, including personal contributions and expanding on the recommended information sources.

Learning objectives of the subject

- ? Acquire advanced knowledge of engineering project management
- ? Analyze and construct proposals for both private and public financing projects
- ? Evaluate project proposals according to established criteria
- ? Justify the evaluation of the proposal and defend it before a committee of experts
- ? Integrate a proposed project within the framework of a business structure
- ? Follow the life cycle of a project: opportunity, proposal, project
- ? Analyze the outcome of a project (cost / benefit)
- ? Explain and defend their solutions in presentations and memories



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Study load

Total learning time: 150h	Hours large group:	42h	28.00%
	Hours medium group:	0h	0.00%
	Hours small group:	0h	0.00%
	Guided activities:	24h	16.00%
	Self study:	84h	56.00%

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Content

Introduction to Engineering Project Management	Learning time: 27h Theory classes: 8h Guided activities: 5h Self study : 14h
Description: content english	
Business information systems to manage engineering projects	Learning time: 23h Theory classes: 8h Guided activities: 5h Self study : 10h
Description: content english	
Proposals for public and private financing projects	Learning time: 17h Theory classes: 8h Guided activities: 4h Self study : 5h
Description: 2.1 National public projects 2.2 International public projects 2.3 Private projects 2.4 Innovative public procurement: use cases 2.5 Construction of a project proposal 2.6 Criteria for the evaluation of a project proposal	
Open challenge	Learning time: 33h Theory classes: 8h Guided activities: 5h Self study : 20h
Description: 1. Presentation of an open challenge 2. Definition of multidisciplinary teams of an engineering project 3. Creation of the structures of the project 4. Evaluation of the project proposal according to established criteria 5. Execution of an engineering project 6. Monitoring and control of an engineering project	

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Project	Learning time: 50h Theory classes: 10h Guided activities: 5h Self study : 35h
Description: content english	

Bibliography

Basic:

Moss, Greg. Working with Odoo 10. Second edition. Birmingham: Packt Publishing, 2017. ISBN 9781786462688.

Adkins, Lyssa. Coaching agile teams : a companion for ScrumMasters, agile coaches, and project managers in transition. Upper Saddle River: Addison-Wesley, 2010. ISBN 9780321637703.

Kniberg, Henrik. Scrum and xp from the trenches : how we do scrum. 2nd edition. C4Media, 2015. ISBN 9781329224278.