Projectes de Telecomunicació

2014/2015

Codi: 42846 Crèdits: 6

Titulació	Tipus	Curs	Semestre
4313797 Enginyeria de Telecomunicacions / Telecommunication Engineering	ОВ	1	2

Professor de contacte

Nom: Josep Parron Granados

Correu electrònic: Josep.Parron@uab.cat

Equip docent

Eloi Ramon Garcia

Prerequisits

No previous requisites

Objectius

This course aims to provide:

- 1. Systematic tools for planning, directing and managing projects in the field of Telecommunication E ngineering
- 2. Knowledge, understanding and ability to apply the necessary legislation in the exercise of the profession of Telecommunications Engineering
- 3. An overview of the role that information and communication technologies can play in management and entrepreneurship.

Competències

- Capacity for the elaboration, direction, coordination and technical and economical management of projects about: systems, networks, infrastructures and telecommunication services, including the supervision and coordination of partial projects of coordinación of part of its accompanying work projects; common telecommunications infrastructures in buildings or residential areas, including digital home projects; telecommunications infrastructure in transport and environment; with corresponding energy supply facilities and evaluation of electromagnetic emissions and electromagnetic compatibility.
- Students should know how to apply the knowledge they have acquired and their capacity for problem solving in new or little known fields within wider (or multidisciplinary) contexts related to the area of study
- Students should know how to communicate their conclusions, knowledge and final reasoning that they
 hold in front of specialist and non-specialist audiences clearly and unambiguously

Resultats d'aprenentatge

Utilització de llengües

Llengua vehicular majoritària: anglès (eng)

Grup íntegre en anglès: No
Grup íntegre en català: Sí
Grup íntegre en espanyol: No

- 1. Apply the principles of resource and project management as well as telecommunications legislation, regulation and normalisation.
- 2. Direct research, development and innovation projects in companies and technology centres
- 3. Direct telecommunications systems projects ensuring that the regulation in force is complied with to ensure the quality of the service.
- 4. Students should know how to apply the knowledge they have acquired and their capacity for problem solving in new or little known fields within wider (or multidisciplinary) contexts related to the area of study
- 5. Students should know how to communicate their conclusions, knowledge and final reasoning that they hold in front of specialist and non-specialist audiences clearly and unambiguously

Continguts

- 1. Organizational structure and integrated project management
- 2. Planning and monitoring techniques
- 3. Quality Assurance
- 4. Management methodologies for information and communication technologies
- 5. The role of information and communication technologies in new bussiness models
- 6. Projects in the field of telecommunications: legislation, development, implementation and certificatio

Metodologia

Guided activities:

- In the class: explanation of theorical contents with application examples
- In the lab: presentation and development of planned activities

Autonomous activities:

- Individual study of the subject
- Preparation of lab activities, reports and presentations
- Work group: development of the proposed projects

Supervised activities:

 Individual or group meetings to clarify concepts, advise on the development of the course or attend other specific issues.

Activitats formatives

Títol	Hores	ECTS	Resultats d'aprenentatge
Tipus: Dirigides			
Lab classes	15	0,6	1, 2, 3, 4, 5
Theory classes	30	1,2	1, 2, 3, 4, 5
Tipus: Supervisades			
Supervision meetings	15	0,6	1, 2, 3, 4, 5
Tipus: Autònomes			
Group work	45	1,8	1, 2, 3, 4, 5
Personal work	25	1	1, 2, 3, 4, 5

Avaluació

Evaluation activities

Final exam (30%): theoretical concepts explained along the course

2 projects in group (35% + 35 %). Both projects have the same weight. In the evaluation of each project the following aspects will be taken into consideration:

- Subjective assessment by the teacher of the contribution of each student to the project (5%)
- Oral presentation of the project (10%)
- Written report of the project (20%)

The qualification "not evaluated " will be only granted if the student does not participate in any of the evaluation activities.

It is mandatory to pass all the evaluation activities (score >= 5) to pass the course.

Activitats d'avaluació

Títol	Pes	Hores	ECTS	Resultats d'aprenentatge
Activity developed in tutorial and practical sessions	10%	2	0,08	1, 2, 3, 4, 5
Final exam	30%	3	0,12	1, 2, 3, 4, 5
Oral presentation of a project developed in a group	20%	3	0,12	1, 2, 3, 4, 5
Report of a project developed in a group	40%	12	0,48	1, 2, 3, 4, 5

Bibliografia

References:

W.R. Duncan, A Guideto the Project Management Body of Knowledge, Project Management Institute. Four Campus Boulevard. PA, 2000.

T.C. Belanger, How to plan a project, Sterling Planning Group, 1999

C. Romero López, Técnicas de Programación y Control de Proyectos, Ediciones Pirámide, 1988

Tim Williams, "EMC. Control y Limitación de Energía Electromagnética", Editorial Paraninfo, 1996.

Alexander Osterwalder & Yves Pigneur, Business Model Generation, John Wiley & Sons, Inc., New Jersey, 2010

A. Cartlidge et al., An introductory view to ITIL v3, itSMF Ltd, 2007

Links:

Legislación básica de telecomunicaciones en España:

http://www.minetur.gob.es/telecomunicaciones/es-ES/Paginas/index.aspx

Instituto para la Diversificació y Ahorro de la energía: http://www.idae.es

Colegio oficial de ingenieros de telecomunicación: http://www.coit.es

Projectes de Telecomunicació 2014 - 2015

Col·legi d'Enginyers de Telecomunicació de Catalunya - Associació Catalana de Ingenieros de Telecomunicación: http://www.telecos.cat