



## IDENTIFYING DATA

### (\*)Laboratorio de proxectos

Subject	(*)Laboratorio de proxectos			
Code	V05G300V01802			
Study programme	(*)Grao en Enxeñaría de Tecnoloxías de Telecomunicación			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	12	Mandatory	4th	2nd
Teaching language	Spanish Galician English			
Department				

Coordinator	Mosquera Nartallo, Carlos
Lecturers	Alba Castro, José Luis Álvarez Sabucedo, Luis Modesto Caeiro Rodríguez, Manuel Díaz Otero, Francisco Javier Docio Fernández, Laura Doval Gandoy, Jesús Fernández Hermida, Xulio Fernández Manin, Generosa Fernández Vilas, Ana González Castaño, Francisco Javier López Ardao, José Carlos Lorenzo Rodríguez, María Edita de Mosquera Nartallo, Carlos Prol Rodríguez, Miguel Sánchez Real, Francisco Javier
E-mail	mosquera@gts.uvigo.es
Web	<a href="http://http://faitic.uvigo.es">http://http://faitic.uvigo.es</a>

General description	<p>Interdisciplinary projects must be addressed by a group of students who must represent at least two of the four main technologies of the Telecommunication Technologies Engineering Degree. The teams are supervised by two faculty members from different Departments to enrich and facilitate the cross-fertilization between different areas of work.</p> <p>There will be a few initial lectures with practical hints on skills such as oral presentation, problem solving or team working. The work developed by the different teams will be defended in a final presentation by all the members.</p>
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## Competencies

Code	
A1	CG1: The ability to write, develop and sign projects in the field of Telecommunication Engineering, according to the knowledge acquired as considered in section 5 of this Law, the conception and development or operation of networks, services and applications of Telecommunication and Electronics.
A6	CG6: The aptitude to manage mandatory specifications, procedures and laws.
A7	CG7: The ability to analyze and assess the social and environmental impact of technical solutions.
A8	CG8: To know and apply basic elements of economics and human resources management, project organization and planning, as well as the legislation, regulation and standardization in Telecommunications.
A9	CG9: The ability to work in multidisciplinary groups in a Multilanguage environment and to communicate, in writing and orally, knowledge, procedures, results and ideas related with Telecommunications and Electronics.
A63	(CE54/PY1) The ability to elaborate the proposal of technical projects according to the specified requirements in a public competitive bidding.
A64	(CE55/PY2) The ability for technical direction of telecommunication project.

A65 (CE56/PY3) The ability to manage telecommunication project human resources and economic.

A66 (CE57/PY4) The ability to elaborate technical reports and for the follow up of a telecommunication project.

B2 To approach a new problem considering first the essential and then the secondary aspects

B3 The development of discussion ability about technical subjects

### Learning aims

Expected results from this subject	Training and Learning Results	
The ability to develop projects in the field of Telecommunication Engineering	A1	
The skills to handle technical specifications and standards	A6	
The capacity to evaluate the potential social impact of the developed solutions	A7	
Familiarity with project management and planning	A8	
Skills to work as a member of an interdisciplinary team	A9	
Oral and written presentation skills in the field of Telecommunication Engineering	A9	
Ability to get into a new problem gradually		B2
Discussion skills on technical problems		B3
Skills to write technical proposals	A63	
Skills to take responsibilities on technical tasks	A64	
Skills to manage human and financial resources	A65	
Skills to monitor the evolution of a telecommunications project	A66	

### Contents

Topic

1. Interdisciplinary work
2. Problem solving
3. Technical writing
4. Public speaking

### Planning

	Class hours	Hours outside the classroom	Total hours
Introductory activities	7	7	14
Projects	14	244	258
Presentations / exhibitions	7	21	28

\*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

### Methodologies

	Description
Introductory activities	There will be a few initial lectures with practical hints on skills such as oral and written presentation, problem solving or team working.
Projects	This is the core of the course: the team of students must address a project initially proposed by two faculty members. During the duration of the course the team members must work in close cooperation to achieve the objectives of the project; the supervision is such that a weekly one hour meeting will take place with one or both advisors. All members of the team must be able to defend its project at the end of the course in an oral presentation.
Presentations / exhibitions	Every team must make a final oral presentation of its project, with a maximum duration of 20 minutes. The presentation can be made by one or more members of the team, and must include evidences to show proof of the work developed and achieved results. At the end of the presentation all members must be available for Q&A. The support material of the presentation (slides, report or any other) must be available to the evaluation committee three days in advance.

### Personalized attention

#### Methodologies Description

Projects	The two advisors who proposed the project addressed by the corresponding team will hold a one hour weekly meeting with the students. In addition, they will be available during their regular office hours for additional support.
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### Assessment

Description	Qualification
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1. Advisors recommendations. For an adequate tracking of the project development, advisors will request different pieces of evidence, both oral and/or written, including partial and/or final reports. Each pair of advisors must submit a justified recommendation to the committee as to the team work methodology and the performance of the team members in the accomplishment of the project goals.

Competences A1, A6, A7, A8, A9, B2, B3, A63, A64, A65, A66 will be evaluated here.

2. The committee evaluation of the final oral presentation, including the Q&A period. The students must also submit complementary material at least three days in advance (report, slides or any other) to help assess their work. The members of the evaluation committee will be the instructors of the Type-A ECTS, as long as they are not involved in the supervision of any project. Otherwise, additional assistance for the evaluation of those conflicting projects will be requested from other instructors from the course.

Competences A9, B3 and A64 will be evaluated here.

As a general principle, the grade will be unique for the entire group. Exceptionally, especially underperforming students not contributing to the team effort can get a different grade.

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### **Other comments on the Evaluation**

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Final presentations are allowed in Galician, Spanish or English.

Those teams not getting the minimum grade to pass the course will have some additional weeks till the allocated date in the second call to present their work again. If the performance of a given student is graded differently from his/her team-mates, and this leads to failing the course, then he/she will need to show a comprehensive domain of the project developed by his/her team in the second call, together with sufficient additional contributions of his/her own.

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### **Sources of information**

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The advisors of each project will detail the recommended sources of information

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### **Recommendations**

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#### **Subjects that are recommended to be taken simultaneously**

(\*)Xestión e dirección tecnolóxica/V05G300V01801

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