



IDENTIFYING DATA

(*)Proxectos de Enxeñaría

Subject	(*)Proxectos de Enxeñaría			
Code	V04M141V01222			
Study programme	(*)Máster Universitario en Enxeñaría Industrial			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	3	Mandatory	1st	2nd
Teaching language	Spanish English			
Department				
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General description	<p>(*)En la materia de ""Proyectos de Ingeniería"" los alumnos adquieren los conceptos básicos de la Dirección y Gestión de Proyectos, los principales procesos y el vocabulario estándar de la misma, con una visión práctica que puede ser aplicada por empresas de distintos sectores.</p> <p>Al finalizar la asignatura el alumno conoce las distintas metodologías de Dirección de Proyectos, así como las principales herramientas que soportan la gestión necesarias para ser capaz de entender, plantear y resolver un proyecto. Se fomenta también el desarrollo de habilidades y competencias genéricas como el trabajo en equipo, inteligencia emocional y social para mejorar la comunicación interpersonal en las organizaciones.</p>			

Competencies

Code	
A1	Knowledge and understanding that provide a basis or opportunity for originality in developing and / or applying ideas, often in a research context.
A2	That the students can apply their knowledge and their ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their field of study.
A3	That students are able to integrate knowledge and handle complexity and formulate judgments based on information that was incomplete or limited, include reflecting on social and ethical responsibilities linked to the application of their knowledge and judgments.
A4	Students can communicate their conclusions, and the knowledge and rationale underpinning these, to specialist and non-specialist audiences clearly and unambiguously.
A5	Students must possess the learning skills that enable them to continue studying in a way that will be largely self-directed or autonomous.
C26	CGS7. Knowledge and Skills for Integrated Project Management.
C33	CIPC6. Knowledge and skills to perform monitoring and control of facilities, processes and products.
C34	CIPC7. Knowledge and skills for certification, audits, inspections, tests and reports.
D4	ABET-d. An ability to function on multidisciplinary teams.
D6	ABET-f. An understanding of professional and ethical responsibility.
D8	ABET-h. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
D11	ABET-k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Learning outcomes

Expected results from this subject	Training and Learning Results
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(*)	A3 C26 C33 C34 D4 D6 D8 D11
(*)	A1 A2 C26 C33 C34 D4 D6 D8 D11
(*)	A3 A4 A5 C26 C33 C34 D4 D6 D8 D11

Contents

Topic	
1. Conceptual frame of the Direction of Projects	1.1. Introduction to the management of projects. 1.2. Methodologies applied to the Direction of projects: Agile (*SCRUM, READ,...) And predictive (*IPMA, *PMI,...) 1.3.Cycle of life of the project and organisation.
2. Traditional or predictive methodologies of Direction of projects. PMBok	2.1. Methods of Selection of Projects 2.2. Areas of knowledge: integration, scope, time, costs, quality, *RRHH, communication, risks, acquisitions and interested.
3. Phase of start of the Project: utilisation of agile methodologies of Direction of Projects.	3.1 *Business *Model *Canvas 3.2 *Project *Model *Canvas 3.3 Record constitution Project
4. Phase Planning of the Project	4.1 Structure of breakdown of the work (*EDT) 4.2 Planning of the project with computer tool

Planning

	Class hours	Hours outside the classroom	Total hours
Classroom work	6	18	24
Presentations / exhibitions	2	4	6
Practice in computer rooms	4	8	12
Group tutoring	1	3	4
Master Session	9	18	27
Other	2	0	2

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

Methodologies

	Description
Classroom work	The student develops exercises or projects in the classroom under the directives and supervision of the teacher. The development of these works can be linked by autonomous activities of the student or in group. In the accomplishment of these works active participation and collaboration will be needed between the students.
Presentations / exhibitions	Final exhibition of the project in group
Practice in computer rooms	Accomplishment of practices with software of project planning
Group tutoring	Accomplishment of tutorship of follow-up in group of the advance of the project

Master Session	Exhibition on the part of the teacher of the contents on the matter I object of study, theoretical bases and / or directives of a work, exercise or project to developing for the student. The theoretical contents will be appearing for the teacher, complemented with the active intervention of the students, in total coordination with in the development of the practical programmed activities.
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Personalized attention

Methodologies	Description
Classroom work	During the classes there will be done a follow-up of the works of every group. They the corresponding feedback will be contributed. The schedule of tutorships of the teacher will communicate to the student body to the beginning of the subject in the virtual platform. The tutorships will fulfil in the office 0 located in the School of Mines.
Presentations / exhibitions	During the classes there will be done a follow-up of the works of every group. They the corresponding feedback will be contributed. The schedule of tutorships of the teacher will communicate to the student body to the beginning of the subject in the virtual platform. The tutorships will fulfil in the office 0 located in the School of Mines.
Practice in computer rooms	During the classes there will be done a follow-up of the works of every group. They the corresponding feedback will be contributed. The schedule of tutorships of the teacher will communicate to the student body to the beginning of the subject in the virtual platform. The tutorships will fulfil in the office 0 located in the School of Mines.
Group tutoring	During the classes there will be done a follow-up of the works of every group. They the corresponding feedback will be contributed. The schedule of tutorships of the teacher will communicate to the student body to the beginning of the subject in the virtual platform. The tutorships will fulfil in the office 0 located in the School of Mines.

Assessment

Description	Qualification	Training and Learning Results
Classroom work	30	A1 C26 A2 A3 A5
Presentations / exhibitions	20	A4 C26 D4 C33 D6 C34 D8 D11
Other	50	A2

Other comments on the Evaluation

All the pupils can accede to the continuous assessment of the matter along the course. To be able to accede to the continuous assessment the pupil has to attend at least 50 % so much of the theoretical as practical classes. The qualification of the continuous evaluation will be the following one: - the written test has a value of 4 in the final note - the final exhibition a value of 2 in the final note and - the work presented by the group a value of 4 in the final note. To be able to choose to the pass in the continuous assessment it is necessary to pass each of the parts with 5. Those pupils who do not choose for the continuous assessment can approve the subject with the final examination in the corresponding date fixed by the direction of the center.

The examination there will enter both the contents of the theoretical classes and the practices. Ethical commitment: it hopes that the pupil presents an ethical suitable behavior. In case of detecting a not ethical behavior (copy, plagiarism, utilization of electronic not authorized devices, for example), will think that the pupil does not assemble the necessary requirements to overcome the matter. Depending on the type of odd ethical detected behavior, it might conclude that the pupil has not reached the competitions B2, B3 and CT19.

Sources of information

Project Management Institute (PMI), **A guide to the Project Management Body of Knowledge (PMBok Guide)**, 5ª Edición,

Chatfield, Carl; Johnson, Timothy, **Step by Step. MICROSOFT PROJECT 2013**, 1ª Edición,

Liliana Buchtik, **Secrets to Mastering the WBS in real world projects**, 2ª edition,

Ted Klastorin, **Gestión de Proyectos con casos prácticos, ejercicios resueltos, Microsoft project, Risk y hojas de cálculo**, 1ª edition,

Fleming, Quentin W., **Earned value project management**, 4ª edition,

Lilian Buchtik, **La gestión de riesgos en Proyectos**, 2ª edition,

Recommendations

Other comments

To register in this matter is a necessary overcome credit or to register of all the matters of the courses lower than the course in which this matter is located.