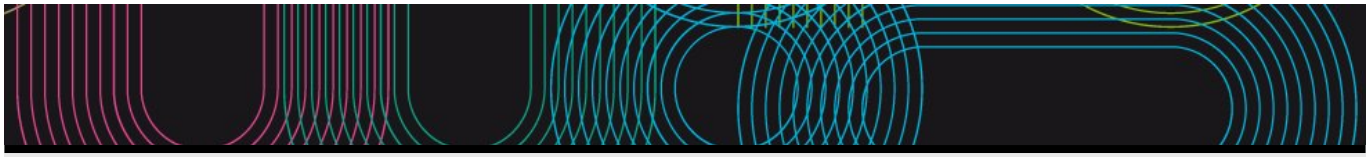

IDENTIFYING DATA				
(*)Proxectos de Enxeñaría				
Subject	(*)Proxectos de Enxeñaría			
Code	V04M141V01318			
Study programme	(*)Máster Universitario en Enxeñaría Industrial			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	3	Optional	2nd	1st
Teaching language	Spanish English			
Department				
Coordinator	Goicoechea Castaño, María Iciar			
Lecturers	Goicoechea Castaño, María Iciar			
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General description	(*)In the matter of "Projects of Engineering" the students purchase the basic concepts of the Direction and Management of Projects, the main processes and the standard vocabulary of the same, with a practical vision that it can be applied by companies of distinct sectors. When finalising the *asignatura the student knows the distinct methodologies of Direction of Projects, as well as the main tools that bear the necessary management to be able to understand, pose and resolve a project. It boosts also the development of skills and generic competitions like the work in team, emotional and social intelligence to improve the interpersonal communication in the organisations.			

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.

Learning outcomes	
Expected results from this subject	Training and Learning Results
Knowledge of the legal frame and the derivative responsibilities of the activity *proyectual of Industrial Engineering	A3 C26 C33 C34
Capacity to manage of dynamic form all the notable appearances of the cycle of life of a project: specifications, design, resources, value, risk, quality, sustainability,etc.	A1 A2 C26 C33 C34

Capacity to develop, propose and evaluate alternative solutions in the market of the optimisation of projects of engineering in surroundings *multiproyecto.	A3 A4 A5 C26 C33 C34

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.

Personalized attention	
Methodologies	**Description**
Classroom work	During the classes will do a follow-up of the works of each group. It will contribute them the feedback corresponding. The schedule of meeting with the professor will communicate to the students at the beginning of the subject in the virtual platform. The meeting will realise in the dispatch 0 situated in the School of Mines.
Presentations / exhibitions	During the classes will do a follow-up of the works of each group. It will contribute them the feedback corresponding. The schedule of meeting with the professor will communicate to the students at the beginning of the subject in the virtual platform. The meeting will realise in the dispatch 0 situated in the School of Mines.
Practice in computer rooms	During the classes will do a follow-up of the works of each group. It will contribute them the feedback corresponding. The schedule of meeting with the professor will communicate to the students at the beginning of the subject in the virtual platform. The meeting will realise in the dispatch 0 situated in the School of Mines.

Group tutoring	During the classes will do a follow-up of the works of each group. It will contribute them the feedback corresponding. The schedule of meeting with the professor will communicate to the students at the beginning of the subject in the virtual platform. The meeting will realise in the dispatch 0 situated in the School of Mines.

Assessment

	Description	Qualification	Training and Learning Results	
Classroom work	The works of classroom constitute a project to realise in group that will go developing along the course in the classroom and complements with the work of the group out of the classroom. The number of students that constitutes the group will fix to the start of the course with the professor.	30	A1 A2 A3 A5	C26
Presentations / exhibitions	To half of course each group realises a previous exhibition, initial of his project. In it, after having defined his model of business, decide the project that go to realise and develop the record of Constitution of the project. The students will receive the feedback corresponding so much to technical level as of the oral presentation realised. Each student will realise an assessment of the projects that realise his mates according to a form that will give them . At the end of course, each group will expose definitively his project and the planning of the same. It will value individually and in group the improvement realised regarding the previous initial presentation and as well as the answers to the questions realised by the professor or rest of mates.	20	A4	C26 C33 C34
Other	It will realise to final of course an examination that consists of one splits type test and other parts of short answer, development and/or resolution of problems	50	A2	

Other comments on the Evaluation

All the students can access to the continuous evaluation of the matter along the course. To be able to access to the continuous evaluation the student has to assist at least to 50% so much of the theoretical classes like practices.

The qualification of the continuous evaluation will be the following:- the proof written has a value of 5 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 3 in the final note
To be able to opt to the approved in the continuous evaluation it is necessary to approve each one of the parts with a 5.
Those students that do not opt by the continuous evaluation can approve the subject with the final examination in the corresponding date fixed by the direction of the centre. In the examination will go in so much the contents of the theoretical classes like the practices
Ethical commitment:it expects that the present student a suitable ethical behaviour. In case to detect a no ethical behaviour (copy, plagiarism, utilisation of unauthorised electronic devices, for example), will consider that the student does not gather the necessary requirements to surpass the matter. Depending of the type of behaviour *non ethical detected, could conclude that the student has not reached the competitions B2, B3 and CT19.

Sources of information

Project Management Institute (PMI), **A guide to the Project Management Body of Knowlegde (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**, 1º edition,

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

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

Recommendations

Other comments

To enrol in this matter is necessary to have surpassed or enrol of all the matters of the inferior courses to the course in that it is situated this matter.