

BASIC DETAILS:

Subject:	GESTIÓN DE PROYECTOS		
Id.:	33443		
Programme:	DOBLE GRADO EN INGENIERÍA INFORMÁTICA Y BIOINFORMÁTICA		
Module:	INGENIERIA DEL SOFTWARE		
Subject type:	OBLIGATORIA		
Year:	4	Teaching period:	Primer Cuatrimestre
Credits:	6	Total hours:	150
Classroom activities:	66	Individual study:	84
Main teaching language:	Inglés	Secondary teaching language:	Castellano
Lecturer:	E S T E R U E L A S HERNANDEZ, EVA ISABEL (T)	Email:	eiesteruelas@usj.es

PRESENTATION:

A project is a temporary endeavor undertaken to create a unique product, service, or result. The frequency of the use of this mechanism, specially in the field of IT and communications, have become to the creation of a discipline called Project Management and the knowledge of this discipline is basic for future IT professionals.

Project Management brings a unique focus shaped by the goals, resources and schedule of each project, the value of that focus is proved by the rapid, worldwide growth of project Management as a recognized and strategic organizational competence, as a subject for training and education and as a career path.

For the development of the subject we will use PMBOK - Project Management Body of knowledge built by the Project Management Institute (PMI), an organization dedicated to collect documentation and learning techniques of project management.

PROFESSIONAL COMPETENCES ACQUIRED IN THE SUBJECT:

General programme competences	G01	Leadership capacity to be able to influence a group so they achieve some specific objectives collectively and efficiently.
	G02	Innovative capacity to propose and find new and efficient ways to undertake any task and/ or function within the professional environment - highly motivated by quality.
	G03	Capacity to work in multidisciplinary teams to achieve common objectives, placing group interests before personal ones.
	G04	Capacity to always commit to working responsibly - creating a strong sense of duty and fulfillment of obligations.
	G05	Capacity to adapt to different environments while being positive and optimistic, orienting your behaviour towards the achievement of goals.
	G06	Capacity to analyse and find a solution to complex problems or unforeseen situations which may arise while working in any type of socio-economic organisation.
	G07	Capacity to work flexibly and with versatility to adapt to the needs and requirements of the work situation.
	G08	Ability to communicate effectively about different matters in a variety of professional situations and with the different media available.
	G09	Capacity to make decisions impartially and rationally.
	G10	Critical and analytical capacity when assessing information, data and courses of action.
	G11	Ability to get on in a multicultural or international environment, interacting with people of different nationalities, languages and cultures.
	G12	Capacity to undertake professional activities with integrity, respecting social, organisational and ethical norms.
	G13	Capacity to use individual learning strategies aimed at continuous improvement in professional life and to begin further studies independently.
Specific programme	E04	Capacity to maintain an open mind to innovation and creativity within the framework of the engineering profession.

competences	E05	Capacity to assess the economic and business features of engineering activities.
	E06	Capacity to apply quality assurance processes to processes and products.
	E07	Capacity to work effectively in project teams, where appropriate assuming executive responsibilities, and consider the human, technological and financial sides.
	E08	Capacity to communicate productively with clients, users and colleagues both orally and in writing, so as to pass on ideas, solve conflicts and achieve agreements.
	E09	Capacity to maintain professional competences through independent learning and continuous improvement.
	E12	Capacity to manage complexity through abstraction, modelling, 'best practices', patterns, standards and the use of the appropriate tools.
	E15	Capacity to understand and go along with the strategic objectives of the company where you are pursuing your professional career.
	E16	Capacity to understand an application demesne so as to be able to develop suitable IT applications.
	E17	Capacity to identify and analyse user needs with the intention of designing effective, usable IT solutions which can be incorporated into the user's operating environment.
	E18	Capacity to identify and define the requirements to be satisfied by IT systems to cover the stated needs of organisations or individuals.
	E19	Capacity to design and define the architecture of IT systems (software, hardware and communications) under the requirements agreed upon by the parties involved.
	E20	Capacity to undertake the detailed design of the components of a project (procedures, user interface, equipment characteristics, communications system parameters, etc.).
	E21	Capacity to perform tests that verify the validity of the project (functional, data integrity, performance of the computer applications, equipment, communications, etc.).
	E22	Capacity to undertake implementation tasks which require a high degree of technical awareness in different spheres (programming, configuration of hardware and communications equipment, etc.).
	E24	Capacity to draw up and develop effective project plans for systems based on information and communication technologies.
	E25	Capacity to analyse viability, design development plans, estimate resources, run and oversee the execution of software-intensive engineering projects.
	E26	Capacity to define and manage quality policies for IT and communications systems, applying quantitative principles based on metrics and statistics.
E27	Capacity to write and maintain descriptive documentation of the origin, production and operability of IT systems.	

PRE-REQUISITES:

Good level of English is required

SUBJECT PROGRAMME:

Observations:

The program may have small variations but the one explained here will be taken as a basis

Subject contents:

1 - Project Management Fundamentals
1.1 - Foundational Elements
1.2 - Environments in which projects operate
1.3 - The role of Project Manager
2 - The Standard for Project Management of a Project
2.1 - •Project Management Processes for a Project.
2.2 - •The Project Management Knowledge Areas.
3 - The Project Management Process Groups.
3.1 - •Initiating Process Group.
3.2 - •Planning Process Group
3.3 - •Executing Process Group
3.4 - •Monitoring and Control Process Group
3.5 - •Closing Process Group.

4 - Project Management Knowledge Areas.
4.1 - •Introduction
4.2 - •Project Integration Management
4.3 - •Project Scope Management
4.4 - •Project time Management.
4.5 - •Project Cost Management
4.6 - •Project quality Management
4.7 - •Project Human Resource Management
4.8 - •Project Communications Management
4.9 - •Project Risk Management
4.10 - •Project Procurement Management
4.11 - Project Stakeholder Management

Subject planning could be modified due unforeseen circumstances (group performance, availability of resources, changes to academic calendar etc.) and should not, therefore, be considered to be definitive.

TEACHING AND LEARNING METHODOLOGIES AND ACTIVITIES:

Teaching and learning methodologies and activities applied:

This course will use the following methodologies in order to give the students the best opportunity to develop their competences: lectures, practical cases, exercises and coursework presentations. Participation in class will be accounted in the final score. All readings, practices and works will be announced using the Online University Platform (pdu.usj.es).

Student work load:

Teaching mode	Teaching methods	Estimated hours
Classroom activities	Master classes	24
	Other theory activities	4
	Practical exercises	20
	Practical work, exercises, problem-solving etc.	6
	Coursework presentations	4
	Films, videos, documentaries etc.	2
	Assessment activities	4
	Extra-curricular activities (visits, conferences, etc.)	2
Individual study	Individual study	28
	Individual coursework preparation	7
	Group coursework preparation	5
	Project work	38
	Research work	4
	Recommended reading	2
Total hours:		150

ASSESSMENT SCHEME:

Calculation of final mark:

Written tests:	40	%
Individual coursework:	20	%
Group coursework:	30	%
Assistance and participation:	10	%

TOTAL 100 %

*Las observaciones específicas sobre el sistema de evaluación serán comunicadas por escrito a los alumnos al inicio de la materia.

BIBLIOGRAPHY AND DOCUMENTATION:

Basic bibliography:

"A Guide to the Project Management Body of Knowledge (PMBOK® Guide)", Sixth Edition. Project Management Institute

Recommended bibliography:

Agile practice guide, Author: Project Management Institute

Recommended websites:

Sitio web del Project Management Institute. <http://www.pmi.org>