



Academic year	2017-18
Subject	11536 - Project Planning and Management
Group	Group 1, 1S
Syllabus	B
Language	English

Subject

Name	11536 - Project Planning and Management
Credits	1.44 in-class (36 hours) 4.56 distance (114 hours) 6 total (150 hours).
Group	Group 1, 1S (Campus Extens)
Period	First semester
Language	English

Lecturers

Lecturers	Office hours for students					
	Starting time	Finishing time	Day	Start date	End date	Office
Antonia Mas Pichaco antonia.mas@uib.es	13:00	14:00	Wednesday	13/09/2017	12/01/2018	114
	13:00	14:00	Tuesday	12/02/2018	06/06/2018	114
Antoni Lluís Mesquida Calafat antoni.mesquida@uib.es	13:00	14:00	Wednesday	13/09/2017	12/01/2018	138
	13:00	14:00	Tuesday	12/02/2018	06/06/2018	138

Context

The Project Planning and Management course is a compulsory course of the Management block of the Master's Degree in Computer Engineering (MINF).

The main objective of the course is to ensure that students know and apply the project management best practices collected in the PMBOK® Guide (*Project Management Body of Knowledge*) by the PMI® (*Project Management Institute*) and the concepts and processes of the ISO 21500 international standard.

In order to promote the achievement of results with less time and cost, and with higher quality, this course will provide the basic principles and the main techniques used to perform an Agile project management. This module, *Lean & Agile Project Management*, will provide the project manager with the knowledge and skills necessary to collaborate, motivate and communicate better.

Requirements

Recommended

It is recommended that students have basic knowledge and skills related to project management, such as those typically introduced in courses such as 21723 - Project Management of the UIB degree in Computer Engineering.

Skills



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Specific

- * CE1 - Integrate computer engineering technologies, applications, services and systems to cover a broad range of multidisciplinary contexts.
- * CE2 - Undertake strategic planning, preparation, direction, coordination, and technical and financial management in the areas of computer engineering related to: computer systems, applications, services, networks, infrastructures or installations and software development centres or factories, applying criteria of quality and environmental sustainability, in multidisciplinary work environments.
- * CE3 - Lead research, development and innovation projects in companies and technology centres, safeguarding persons and goods and overseeing product quality and certification.

Generic

- * CG1 - Propose, calculate and design products, processes and installations in all areas of computer engineering.
- * CG3 - Lead, plan and supervise multidisciplinary teams.
- * CG5 - Display a capacity for the preparation, strategic planning, coordination and technical and financial management of projects in all areas of computer engineering, applying criteria of quality and environmental sustainability.
- * CG6 - Display a capacity for general and technical management and management of research, development and innovation projects in companies and technology centres, in the field of computer engineering.

Basic

- * You may consult the basic competencies students will have to achieve by the end of the Master's degree at the following address: http://estudis.uib.cat/master/comp_basiques/

Content

Students will follow an itinerary between the two following possibilities, depending on their knowledge base:

- * Itinerary A is designed for students who have just completed a basic course in project management, with contents similar to that offered in the course 21723 - Project Management of the UIB degree in Computer Engineering.
- * Itinerary B is aimed at students with advanced knowledge in project management, with contents similars to that offered in the course 21733 - Advanced Project Management of the UIB degree in Computer Engineering.

Theme content

I. Itinerary A

- I.1. Procurement management
- I.2. Risk management
- I.3. Quality management
- I.4. EVM: Earned Value Management
- I.5. Agile project management
- I.6. Professional skills of a Project Manager

II. Itinerary B

- II.1. Preparation for the CAPM Certification
- II.2. Professional skills of a Project Manager

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Teaching methodology

The teaching methodology proposed for the course is as follows:

- * **Learning theoretical concepts.** In order to develop the theoretical content of the course, students will have different materials related to each session. They will have to review, read, analyze or try to solve everything according to the instructions given by the teacher before class time. During the session, the possible doubts from students will be solved, and the teacher will show how these concepts are applied into practice. This method of active learning through questions, discussions and applied activities, transfer parts of the learning process outside the classroom and uses class time, along with the experience of teaching, to facilitate and promote the acquisition of knowledge.
- * **Exercises** (Project-based cooperative learning studying a case study and solving problems). Students must do a set of exercises, using all the knowledge acquired during lectures. To facilitate the work of the students, some clear goals will be defined with deadlines.
- * **Self-learning.** It is important to motivate students to complete the learning of the course by other means, in addition to lectures, both theoretical and practical. The first action is to promote the consultation of the literature, both basic and complementary, which discusses specific topics. They can also complement the knowledge visiting recommended websites.
- * **Using tools.** Students will learn how to use specific tools for project management.

In order to encourage autonomy and personal work of the student, the course is part of Campus Extens, dedicated to flexible and distance education, which incorporates the use of telematics in university education. Thus, by Moodle tele-education platform, students will have at their disposal an online and distance communication with the teacher, a calendar with news, electronic documents, Internet links and the proposed autonomous work.

Any communication made through Campus Extens will prevail over what has been said during the lectures. It is the responsibility of the student to access the platform frequently to know all the news of the course.

In-class work activities

Modality	Name	Typ. Grp.	Description	Hours
Theory classes	Introduction of theoretical concepts	Large group (G)	Students will work with the theoretical contents with practical examples where these concepts can be applied. Students will have several materials related to each study area that will allow them to deepen their knowledge. All material will be available through Campus Extens.	20
Seminars and workshops	Seminars, workshops and conferences	Medium group (M)	During the course a set of workshops and seminars to work transversal skills of project management will be held.	4
Practical classes	Practical part	Large group (G)	The set to practical tasks to do and the weight of each one varies depending on the Itinerary: Students of the Itinerary A shall: * Plan a software development project. * Solve the activities proposed in the seminars. Students of the Itinerary B shall: * Prepare the CAPM certification.	12

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Modality	Name	Typ. Grp.	Description	Hours
			<ul style="list-style-type: none"> * Prepare a seminar on the professional skills of a Project Manager. Propose activities to work on the concepts introduced. * Co-assess the project plans of students in the Itinerary A. * Solve the activities proposed in the seminars. 	

At the beginning of the semester a schedule of the subject will be made available to students through the UIB digital platform. The schedule shall at least include the dates when the continuing assessment tests will be conducted and the hand-in dates for the assignments. In addition, the lecturer shall inform students as to whether the subject work plan will be carried out through the schedule or through another way included in the Campus Extens platform.

Distance education work activities

Modality	Name	Description	Hours
Individual self-study	Individual tasks	To perform a set of tasks related to the management of software development projects. The goal is to apply all the theoretical concepts introduced during the lectures to different case studies.	34
Individual self-study	Study	To understand the theoretical concepts introduced throughout the course.	40
Group self-study	Team tasks	Perform a set of tasks in teams. The student will analyze how to apply the project management best practices in a real project, in order to identify how the management and collection of lessons learned can be improved.	40

Specific risks and protective measures

The learning activities of this course do not entail specific health or safety risks for the students and therefore no special protective measures are needed.

Student learning assessment

This section collects the evaluation criteria and their weight in the rating of the course.

The student will get a numerical rating between 0 and 10 for each activity, which will be weighted according to their weight, to obtain the overall grade for the course. Students must work in the practical part continuously during the course and must get a score higher than or equal to 5 in order to be able to make the average with the exam grade. Students who do not obtain an exam score greater than or equal to 5 will not be allowed to make the average with the practical part, but will have a recovery exam in July.

When qualifying both the practical part and the exam, it will be assessed that the student has developed the following skills:

- * Must have the ability to innovate in the treatment of the issues addressed.
- * Must show initiative in planning alternatives or solutions to the problems raised.
- * Must participate actively in the resolution of all cases raised during the practical sessions.

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* Must have the ability to critically making positive contributions in his comments.

Moreover, it will be also assessed that the student has developed the following skills:

- * Learn to search, collect and use information from different sources with different media.
- * Express, summarize, write, structure and present all the documentation associated with a project.
- * Recognizing the importance of communication mechanisms, especially in public presentations.
- * Ability to work in a team, dividing the job but adding capabilities.
- * Assess leadership skills, learn to negotiate, make decisions, solve problems.

Introduction of theoretical concepts

Modality	Theory classes
Technique	Objective tests (retrievable)
Description	Students will work with the theoretical contents with practical examples where these concepts can be applied. Students will have several materials related to each study area that will allow them to deepen their knowledge. All material will be available through Campus Extens.
Assessment criteria	<p>All students must pass a written test at the end of the course:</p> <ul style="list-style-type: none"> * For students of Itinerary A, the test will evaluate the concepts worked in the two halves of the course. * For students of Itinerary B, the test will evaluate the concepts studied in the second half of the course. <p>In both cases, the student must obtain at least 5 points out of 10.</p> <p>Skills assessed: CE1, CG6 and CG1.</p>

Final grade percentage: 50% for the training plan A with minimum grade 5

Final grade percentage: 30% for the training plan B with minimum grade 5

Practical part

Modality	Practical classes
Technique	Papers and projects (retrievable)
Description	<p>The set of practical tasks to do and the weight of each one varies depending on the Itinerary: Students of the Itinerary A shall: *Plan a software development project. *Solve the activities proposed in the seminars. Students of the Itinerary B shall: *Prepare the CAPM certification. *Prepare a seminar on the professional skills of a Project Manager. Propose activities to work on the concepts introduced. *Co-assess the project plans of students in the Itinerary A. *Solve the activities proposed in the seminars.</p>
Assessment criteria	<p>The weights of the tasks and the dedication to carry them out, both individually and as a team, are defined in a document that is available to students through Campus Extens.</p> <p>In order to pass the practical part of the course, the student must get a minimum score for each task greater than or equal to 5. The average ratings for all tasks must be equal to or greater than 5.</p> <p>The qualification of the practical part, in addition to assessing the correctness of each task also will consider other aspects such as the degree of participation and motivation of each student.</p> <p>Copying a task between different students would imply a fail mark of the practical part for all the students involved and the inability to pass the course for the course.</p> <p>The maximum grade for tasks in the extraordinary period will be 5.</p>



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Skills assessed: CE2, CE3, CG3 and CG5.

Final grade percentage: 50% for the training plan A with minimum grade 5

Final grade percentage: 70% for the training plan B with minimum grade 5

Resources, bibliography and additional documentation

Basic bibliography

- * A Guide to the Project Management Body of Knowledge (PMBOK Guide) - Fifth edition. 2013 Project Management Institute.
- * Guía de los Fundamentos para la Dirección de Proyectos (Guía del PMBOK) - Quinta edición. 2014 Project Management Institute.
- * Software Extension to the PMBOK Guide - Fifth Edition. 2013 Project Management Institute.

Complementary bibliography

- * Lean Software Development: An Agile Toolkit Mary Poppendieck y Tom Poppendieck, 2003.
- * Scrum and XP from the Trenches Henrik Kniberg, 2007.
- * Kanban and Scrum – Making the Most of Both Henrik Kniberg y Mattias Skarin, 2010.
- * User Stories Applied: For Agile Software Development Mike Cohn, 2004.
- * Succeeding with Agile: Software Development Using Scrum Mike Cohn, 2009.
- * Crystal Clear: A Human-Powered Methodology for Small Teams Alistair Cockburn, 2004.
- * Agile Software Development, Principles, Patterns, and Practices Robert C. Martin, 2002.

Other resources

- * Project Management Institute - <http://www.pmi.com>
- * Associació de Project Management de les Illes Balears - <http://www.pmi-balear.org>
- * Agile Manifesto - <http://agilemanifesto.org>

