Universida_{de}Vigo

Subject Guide 2017 / 2018

IDENTIFYI				
	y Management			
Subject	Technology			
	Management			
Code	V05G300V01801	,		
Study	Degree in			
programme	e Telecommunications			
	Technologies			
	Engineering			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Mandatory	4th	2nd
Teaching	Spanish			
language	English			
Departmen				
Coordinato	r González Castaño, Francisco Javier			
Lecturers	Docio Fernández, Laura			
	Fernández Vilas, Ana			
	González Castaño, Francisco Javier			
	López Ardao, José Carlos			
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Web	http://http://faitic.uvigo.es			
General	This course provides skills in design, management and			
description	, , , , , , , , , , , , , , , , , , , ,			property definition
-	and protection, and business models. The course is tau	ght in Spanish and	English.	

Competencies

Code

- B7 CG7: The ability to analyze and assess the social and environmental impact of technical solutions.
- B8 CG8: To know and apply basic elements of economics and human resources management, project organization and planning, as well as the legislation, regulation and standarization in Telecommunications.
- C54 (CE54/PY1) The ability to elaborate the proposal of technical projects according to the specified requirements in a public competitive bidding.
- C55 (CE55/PY2) The ability for technical direction of telecommunication project.
- C56 (CE56/PY3) The ability to manage telecommunication project human resources and economic.
- C57 (CE57/PY4) The ability to elaborate technical reports and for the follow up of a telecommunication project.

Learning outcomes		
Expected results from this subject	Tra	ining and Learning Results
- To analyze the technical and economic feasibility of a project. Project budgets.	B7	C55
	B8	C56
Learn how to find statistical information and indicators		C57
- Learn how to perform technological surveys and consulting		
- Learn how to apply the main certification regulations	B8	,
- Project reporting		C54
		C55
		C56
		C57
- Project planning and management	B8	C54
		C55
		C56
· Sociological and human aspects of projects.		C55
- · · · · ·		C56
Telecommunciations, safety and environmental regulations	B7	C54

C55 C56

- To propose business models in telecommunications

Contents	
Topic	
Project design and management	- Definition of technical goals
	- Translating goals into tasks
	- Planning the project
	- Project resources
	- Human team. R&D profiles
	- Budget
	- Tracking project evolution
Identifying and interpreting needs	- Gathering requisites
	- Translating needs into technical objectives
	- Technological perspective. Hype cycles
	- Sources and methods for technical surveys
Creativity techniques	- Research, development and innovation
	- Team methods to boost creativity
	- Is my idea original? Formulating and evaluating it
Collaborative Tools	- Purpose
	- Tools
	- Tool-assisted collaborative techniques
Legal aspects	- Types of property: Intellectual and industrial
	- Technological actives vs. legal property. Models, patents. Licenses
	- Spanish case/international case. Europe and the US. Internationalization
	hints
	- CIN/352/2009 regulation
Business models. Entrepeneurship.	- Product proposal
·	- Risk analysis
	- Customer survey
	- From the idea to the business plan
	- First steps towards the creation of an enterprise

(*)-	(*)-	

Planning			
	Class hours	Hours outside the classroom	Total hours
Master Session	24	38	62
Projects	4	20	24
Practice in computer rooms	28	36	64

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

Methodologies	
	Description
Master Session	Oral presentation of the main concepts of the course by the professors, supported by multimedia. Lectures by experts. Through this methodology the competencies CG7, CG8, CE54, CE55, CE56 and CE57 are developed.
Projects	Group project to be presented during class hours A of the last week. Through this methodology the competencies CE54, CE55, CE56 and CE57 are developed.
Practice in computer rooms	Practice on aspects of specification of requisites, creativity and project design and tracking using computer tools. Through this methodology the competencies CE54, CE55, CE56 and CE57 are developed.

Personalized a	ttention
Methodologies	S Description
Master Session	The professors will be available during tutoring hours to clarify any doubts on master session contents. Tutoring hours will be published at the beginning of the course.

Projects

All techniques in the course will be applied to the creation and planning of a project. The project will be performed in groups. At the beginning of the course, the professors will notify a working field for the course (ex. medical applications, intelligent furniture). Projects will focus on product proposals in that specific working field. Nevertheless, the professors will track individual performance, and at the final defence there may be individual questions. Personalized individual attention on these aspects will take place during official tutoring times or via e-mail at any time.

	Description	Qualification	Training ar	d Learning Results
Master Session	Exam	40	B7	C54
			B8	C55
				C56
				C57
Projects	Individual defense (commitee)	40		C55
				C56
				C57
Practice in computer roomsEvaluation of partial results+exam		m 20		C55
·	·			C56
				C57

Other comments on the Evaluation

Continuous evaluation consists of:

- · Individual exam (Maximum 4 points). Official calendar.
- · Intermediate practical test (Maximum 2 points).
- · Final project (Maximum 4 points).

To pass the course, the final student score (as the sum of the previous activities) must be 5 points or more. Maximum score is 10 points.

The project will be performed in groups. Individual scores will be assigned according to student interaction in B hours and the part corresponding to each student in the public project defence.

FINAL EVALUATION:

It will consist in an exam with theoretical and practical parts in the official date. The practical part will cover the same content as the continuous evaluation along the course.

Sources of information

Basic Bibliography

Carl Chatfield, Timothy Johnson, Microsoft Project 2013 Step by Step, 1, Microsoft Press, 2013

Complementary Bibliography

Michael Michalko, Thinkertoys: A Handbook of Creative Thinking Techniques, 2, Ten Speed Press, 2006

Alexander Osterwalder, Yves Pigneur, **Business Model Generation: A Handbook for Visionaries, Game Changers, and Challengers**, 1, John Wiley and Sons, 2010

Edward de Bono, Six Thinking Hats, 2, Back Bay Books, 1999

Recommendations