Universida_{de}Vigo

Subject Guide 2019 / 2020

IDENTIFYIN						
	and technological innovation management					
Subject	Knowledge and					
	technological innovation					
Code	management V03G020V01925					
Study	(*)Grao en					
programme	Administración e					
programme	Dirección de					
	Empresas					
Descriptors	ECTS Credits	Choose	Year	Quadmester		
Descriptors	6	Optional	4th	1st		
Teaching	Galician	optional		150		
language	English					
Department						
Coordinator	Vázguez Vicente, Xosé Henrigue					
Lecturers	Silva França Santos, Alexandra Maria					
Lecturers	Vázquez Vicente, Xosé Henrique					
E-mail	xhvv@uvigo.es					
Web	http://webs.uvigo.es/xhvv					
General	The course highlights the challenges posed by the k	nowledge econom	v. iustifies the n	eed to innovate in this		
description	context, and deepens into the tools available to sist					
· · · · ·	Although we will mainly focus in private firms, the course will show that the management of knowledge and					
	innovation finds a wide field of application beyond t					
	an important role in the dynamization of change in	any type of organia	zation; from an I	NGO or a trade union, for		
	instance, to the very same public administration.					

Competencies

CUL	
A2	Students need to be able to apply the knowledge acquired to their work or vocation in a professional manner, and
	should have the skills normally demonstrated through the ability to develop and defends points of view and to solve
	problems related to their field of study.

A3 Students should be able to collect and interpret relevant data (usually within their field of study) in order to make judgements that include a reflection on the relevant social, scientific or ethical issues.

A4 Students should be able to transmit information, ideas, problems and solutions to both specialised and non-specialised audiences.

B1 Ability to analyse and synthesise

B2 Critical and self-critical thinking

C1 Acquire and understand knowledge regarding: the relationships between the different subsystems that make up the business system

C3 Acquire and understand knowledge regarding: Internal aspects, functions and processes of organisations including their nature, structure, direction, operation and management

D2 Capacity for leadership, including empathy with others

Learning outcomes

Expected results from this subject		Training and Learning			
		R	esults		
Understand the Knowledge Economy and the role that the management of the innovation plays.	A3	B1	C1		
		B2	C3		
Capacity to analize the main strengths that move the ecosystem of innovation	A2	B1	C1		
		B2	C3		
Capacity to analyse the internal processes of the company that influence the potential of	A4	B2	C1	D2	
innovation			C3		
Creative capacity to distinguish new projects of innovation, evaluate them with rigour, and	A2	B1	C1	D2	
implement them.	A3				
implement them.	<u>A3</u>				

Contents

Торіс	
1 Why innovation management? From an	The world economy. The rationale of growth and convergence. The new
industrial to a knowledge economy.	technological system: microelectronics and biotechnology. Knowledge economy: more than bytes. The firm in a new context: the innovation plan.
2 Technological change and National Systems of Innovation.	of Technology and innovation: definitions and typologies. The configuration of National Systems of Innovation. The system Science-Technology- Industry: the role of universities.
 The elaboration of a diagnosis: from environmental insights to new ideas for the market. 	Competitive intelligence. Technological prospection. Technological audit.
4 The importance of designing a strategy to develop a project portfolio.	Strategic coherence. Innovation strategies. Technological strategies. Interactions. Indicators. Project portfolio. Technology protection.
5 How to implement a project? Organizational	Organizational structures to stimulate change and innovation.
structure, control and leadership.	Coordination mechanisms to innovate. The technological perspective of control systems and incentives. Participation systems for the workforce.
	The flow of change: training, comunication and leadership.

	Class hours	Hours outside the	Total hours
	Class Hours	classroom	Total Hours
Introductory activities	1	0	1
Lecturing	19	30	49
Problem solving	10	10	20
Debate	10	10	20
Mentored work	10	20	30
Objective questions exam	2	28	30

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

Methodologies	
	Description
Introductory activities	Presentation of contents and goals. Teaching methodology and evaluation systems.
Lecturing	Presentation of the theoretical basis and guidance on program contents. Students should read previously the recommended material for each session.
Problem solving	Each of these sessions consists of a simulation to put the knowledge developed in master sessions into practice.
Debate	Teachers will debate with students about questions with answers that will require to associate arguments from the current and previous lectures.
Mentored work	These sessions will also have the teachers' support, but students will work cooperatively and autonomously in small groups in order to carry out an analysis of a particular innovation topic, develop simulations of tools and techniques that were studied in the theoretical lectures, and ellaborate an Innovation Plan for any business or industry. In order to carry out these tasks, it is important to absorve the knowledge discussed in master sessions and develop the target skills during problem solving exercises.

Personalized assistance				
Methodologies	Description			
Problem solving	Several problems and exercises will be adressed in class.			
Mentored work	The innovation plan will be supervised by the teacher.			

Assessment				
	Description	Qualificat	ion Tra	ining and
			Learr	ning Results
Debate	The teachers will question the students with issues that will require answers	10	A2 B	32
	relating to different topics.		A3	
			A4	

Mentored work There are two types of tutored works: (1) and (2) an Innovation Plan. The Innovation Plan follows a model that of this Plan will be based on the following	s available in FAITIC. The assesment	40	A2 A3 A4	B1 B2		D2
FORMAL PRESENTATION The table of contents will be broken dowr each element is. All the figures included i must specify the source. Literal quotations must be enclosed in qu the source from which they are extracted will be cited. The detection of a plagiarism the sanctions according to the regulations The sources (documentary, oral, internet.	n the text, tables, graphs and figures otation marks and accompanied by If they are not literal, only the source will be punished with the greater of s of the University of Vigo.					
LEVEL AND QUALITY OF THEMATIC DEPTH						
ANALYTICAL SKILL Structuring and critical analysis of inform Originality and rigor of the arguments	ation					
FINAL PRESENTATION TO SEEK FINANCING DEVELOPED IN THE INNOVATION PLAN Adjustment to a 10 minutes presentation Fluency of the presentation Conviction capacity	G OF ONE OF THE PROJECTS					
Objective questionsThe exam will consist of 20 test questions correct answer adds one point; one incorr Alternatively, this test-type exam may be students must deal with extensively.	ect answer substracts 0,33.	50	A3	B1 B2	C1 C3	

Other comments on the Evaluation

Students can choose to be evaluated through a continuous assessment procedure, or just with a final exam that will represent 100% of the students' grade.

About the continuous assessment procedure:

(1) The weighting of the different methods is as follows: the exam will have a value of 50%, and the other 50% will depend on the student's performance in both the theoretical and practical sessions. The performance in the theoretical sessions will depend on the proactive attitude participating in the debates under way (10%), while in the practical sessions it will depend on the effort and results showed in the tutored works (40%).

(2) The score for the participation and the fulfillment of all the defined tasks is maintained in the academic course and will not be saved for successive years.

About the exam:

(1) It can be a test or made of short questions.

(2) In the slides available in FAITIC you can find an extended index of the course that the students will have to complement on their own during face-to-face teaching and/or with the recommended bibliography.

(3) In the [final bachelor call for examination] (a special call for students with just a few courses left to graduate), the exam will represent 100% of the grade.

(4) The exam dates can be consulted on the website: http://fccee.uvigo.es

Sources of information Basic Bibliography Fernández Sánchez, Esteban, Estrategia de innovación, Thomson,

Antonio Hidalgo, Gonzalo León, Gonzalo LeónJulián Pavón, La Gestión de la innovación y la tecnología en las organizaciones, Pirámide, 2013

Enric Barba, José Ramón Magarzo, **Cómo gestionar la innovación**, Altran, 2018

Complementary Bibliography

Tidd, Joe e Bessant, John, Managing Innovation: Integrating technological, market and organizational change, Wiley, 2013 Tidd, Joe e Bessant, John, Managing Innovation: Integrating technological, market and organizational change, Wiley,

Antonio Davila, Marc J Epstein, and Robert D. Shelton, Making Innovation Work: How to Manage It, Measure It, and Profit from it, Pearson Education, 2013

Recommendations

Subjects that continue the syllabus

Investment decisions/V03G020V01402

Financing decisions/V03G020V01501

Subjects that are recommended to be taken simultaneously

Commercial Research/V03G020V01701

Subjects that it is recommended to have taken before

History: Economic history/V03G020V01103 Operations management/V03G020V01302 Accounting analysis/V03G020V01601

Other comments

The master sessions address topics that must be related to other contents of the course and other courses such as statistics, market research, law or business economics.

The practical sessions demand from the students a proactive and creative attitude that can be hardly exaggerated. Lateral thinking and innovative output in the innovation plan and in the teacher's own exercises are key elements in the evaluation of these sessions.

The development of the course and its future exploitation in professional life advises a level of reading in English equivalent to that required in the entrance exams to the university.