Universida_{de}Vigo

Subject Guide 2018 / 2019

Subject k	Ind technological innovation management Knowledge and						
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i	echnological						
	nnovation						
r	management						
Code \	/03G020V01925						
Study ((*)Grao en						
programme A	Administración e						
[Dirección de						
E	Empresas						
Descriptors E	ECTS Credits	Choose	Year	Quadmester			
6	5	Optional	4th	1st			
Teaching C	Galician						
language E	English						
Department E	Business Organisation and Marketing						
Coordinator V	Vázquez Vicente, Xosé Henrique						
Lecturers S	Sartal Rodríguez, Antonio						
١	Vázquez Vicente, Xosé Henrique						
E-mail x	khvv@uvigo.es						
Web h	nttp://webs.uvigo.es/xhvv						
General T	The course highlights the challenges posed by the kn	owledge econom	y, justifies the ne	eed to innovate in this			
	context, and deepens into the tools available to sister						
A	Although we will mainly focus in private firms, the course will show that the management of knowledge and						
i	innovation finds a wide field of application beyond the business arena. The rationale of the course will thus play						
a	an important role in the dynamization of change in any type of organization; from an NGO or a trade union, for						
i	nstance, to the very same public administration.						

Competencies

Code 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 Results Understand the Knowledge Economy and the role that the management of the innovation plays. A3 Β1 C1 C3 B2 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 Α4 B2 C1 D2 innovation C3 Creative capacity to distinguish new projects of innovation, evaluate them with rigour, and A2 B1 C1 D2 implement them. Α3

Contents

Торіс	
1 Why innovation management? From an industrial to a knowledge economy.	The world economy. The rationale of growth and convergence. The new 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 Technology and innovation: definitions and typologies. The configuration
Innovation.	of National Systems of Innovation. The system Science-Technology- Industry: the role of universities.
3 How to protect intellectual property rights (IPRs).	What are IPRs. Patents. Utility models. Industrial models and draws. Know- how. Brands and other symbols.
 The elaboration of a diagnosis: from environmental insights to new ideas for the market. 	Competitive intelligence. Technological prospection. Technological audit.
5 The importance of designing a strategy to develop a project portfolio.	Strategic coherence. Innovation strategies. Technological strategies. What comes first?
6 How to implement a project? Organizational structure, control and leadership.	Organizational structures to stimulate change and innovation. 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.

Planning					
	Class hours	Hours outside the classroom	Total hours		
Introductory activities	1	0	1		
Lecturing	29	30	59		
Problem solving	10	10	20		
Supervised work	10	20	30		
Others	0	10	10		
Objective questions exam	2	28	30		
*The information in the planning table is t	for guidance only and does n	ot take into account the het	erogeneity 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. Before lectures, students
	should read and work on the material prepared for each session.
Problem solving	Each of these sessions consist of an activitiy to apply the knowledge developed in master sessions.
Supervised work	Students will work cooperatively in small groups in order to carry out (1) an analysis of a particular
	innovation topic; (2) develop simulations of tools and techniques that were studied in the
	theoretical lectures, and (3) ellaborate an Innovation Plan for any business or industry.
Others	Analysis and presentations from readings and complementary exercises.

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

Assessment						
	Description	Qualificatio	n [.]	Traini	ng a	nd
			Le	arnin	g Re	sults
Supervised work	There are three types of tutored works: (1) Analysis and presentations of	40	A2	B1	C1	D2
	readings; (2) simulations leaded by the teacher; and (3) an Innovation Plan		Α3	B2	C3	
	The Innovation Plan follows a model that is available in FAITIC. The		A4			
	assesment of these Plans will be based on its formal presentation, its					
	analytical quality, and its public presentation.					
Others	Proactive attitude throughout the theoretical and practical lectures,	10		B1		D2
	complementary readings or oral presentations.			B2		
Objective	The exam will consist of 20 test questions with 4 possible answers each.	50	_ A3	B1	C1	
questions exam	One correct answer adds one point; one incorrect answer substracts 0,33.			B2	C3	
	This test-type exam may be substituted by short questions that students					
	must deal with extensively in extraordinary sessions.					

Other comments on the Evaluation

The assessment method described in this guide is meant for students who will follow the **classroom-based teaching**.

Students need to pass the test and the daily assessment independently.

Any student taking part in 15% of the evaluation exercises will get a grade different from "not presented".

Students can find the calendar of available examinations in http://fccee.uvigo.es/calendario-exames-201718.html

Sources of information

Basic Bibliography

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,

Fernández Sánchez, Esteban, Estrategia de innovación, Thomson,

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