

DEPARTMENT OF BUSINESS AND ECONOMICS  
COURSE SYLLABUS

Course Details				
Code		Academic Year		Semester
BE046		2021-2022		
Title		T	A	L
Economics of Innovation		3	1	0
Language	English			
Level	Master		Doctorate	X
Department / Program	PhD in Business and Economics			
Forms of Teaching and Learning	Face-to-Face			
Course Type	Compulsory		Elective	X
Objectives	The aim of the course is to equip students sufficiently for analysing the effects of innovations in the economy. By explaining stages of the innovation, from very basic research to commercialization, this course aim to give wide knowledge about the innovation. Analytical tools necessary to understand firms' considerations and trade-offs in innovation investment decisions, including responsible innovation issues will support the students.			
Content	The lectures cover multi-actor context, discussing the roles of firms, institutions of higher education, research institutes, households, and individuals, as well as inter-actor linkages and institutional mechanics. Particular attention is given to a systemic perspective, known as the National innovation systems framework. The interplay between innovations, economic transformation, and economic growth is studied with an emphasis on the relationship between the STI discourse and the general agenda of development studies, considering the link between innovation and productivity, technological upgrading, and catch-up.			
Prerequisites				
Coordinator				
Lecturer(s)				
Assistant(s)				
Work Placement				
Recommended or Required Reading				
Books / Lecture Notes	<b>Greenhalgh, C., &amp; Rogers, M. (2010). Innovation, Intellectual Property, and Economic Growth. Princeton, N.J.: Princeton University Press.</b>			
Other Sources	Rosenberg, N., & Hall, B. H. (2010). Handbook of the Economics of Innovation (Vol. 1st ed). Amsterdam: North Holland.			
Additional Course Material				
Documents	<b>Lecture Notes and Books</b>			
Assignments	Assignments			
Exams	Midterm and Final			

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Course Composition			
Social Sciences			%100
Educational Sciences			%
Natural Sciences			%
Health Sciences			%
Expert Knowledge			%
Assessment			
Activity	Count		Percentage (%)
Midterm Exam			30
Quiz			
Assignments			30
Attendance			
Recitations			
Projects			
Final Exam			40
		<b>Total</b>	<b>100</b>
ECTS Points and Work Load			
Activity	Count	Duration	Work Load (Hours)
Lectures	14	3	42
Self-Study	14	2	28
Assignments	12	5	60
Presentation / Seminar Preparation			
Midterm Exam	1	60	60
Recitations			
Laboratory			
Projects			
Final Exam	1	90	90
		<b>Total Work Load</b>	<b>280</b>
		<b>ECTS Points (Total Work Load / 28)</b>	<b>10</b>
Course Learning Outcomes			
1	Knowledge of the contemporary multiactor perspective on innovation		
2	Knowledge of the key insights of the microeconomics of innovation		
3	Knowledge of the core macroeconomic dimensions of innovation and its link with economic development		
4	Knowledge of the contribution of broader set of actors and institutes into the innovation processes		

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5	Knowledge of the contemporary approaches to measure innovation outcomes		
<b>Weekly Content</b>			
1	Introduction		
2	Nature and Genesis of innovation		
3	Agents and process of innovation		
4	Innovation, firm and market characteristics		
5	Linkages, collaborative networks and open innovation		
6	Sectoral patterns of innovation and heterogeneity of economic activities		
7	Non-technological innovation and innovation in services		
8	Innovation, economic growth, economic convergence		
9	Midterm		
10	History of Technology and Economic Growth		
11	Innovation and the agenda of development studies		
12	Measuring economic effects of R&D and innovation		
13	Policymaking in the area of STI		
14	Digitalization and innovation		
15	Overview		
<b>Contribution of Learning Outcomes to Program Objectives (1-5)</b>			
<b>CLO</b>	<b>P1</b>	<b>P2</b>	<b>P3</b>
1	4	3	5
2	4	5	5
3	3	3	4
4	5	4	4
5	3	4	4
<b>Contribution Level</b>	1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High		
<b>Compiled by:</b>			
<b>Date of Compilation:</b>	04/05/2021		