



UNIVERSITY OF PIRAEUS

FACULTY/SCHOOL	School of Economics, Business and International Studies		
DEPARTMENT	Department of Economics		
LEVEL OF STUDY	Undergraduate		
COURSE UNIT CODE	OKTEX07	SEMESTER	7th
COURSE TITLE	ECONOMICS OF TECHNOLOGICAL PROGRESS		
WEEKLY TEACHNG HOURS	4	CREDITS (ECTS)	5
COURSE TYPE	Scientific expertise and Skills Development		
PREREQUISITE COURSES	-		
INSTRUCTION LANGUAGE	Greek/English (in case of Erasmus students)	ASSESSMENT LANGUAGE	Greek
OPEN TO ERASMUS	-		

LEARNING OUTCOMES	<p>Knowledge: Students acquire a theoretical background in the course of the lesson, which is related to the concepts of innovation and technological progress. In particular, they are taught the benefits of technological progress for the economy, the tools for achieving effective innovation, PERT and GANTT charts, problem-solving methods (TRIZ), the similarities and differences of innovation with entrepreneurship, static and dynamic models of innovation, the advantages-disadvantages of open and closed innovation and ways of diversifying a technological product.</p> <p>Skills: By using the STATA econometric tool in combination with the theoretical background, students have the opportunity to use the knowledge, techniques and theorems to develop future work (e.g. postgraduate or doctorate) as well as to participate in research work.</p> <p>Abilities: The independence given at least at the basic level to the use of the econometric tool creates the appropriate background for accountability and autonomy in future work.</p>
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GENERAL COMPETENCES	<p>Search for, analysis and synthesis of data and information by the use of appropriate technologies Individual/Independent work Group/Team work Working in an interdisciplinary environment Development of free, creative and inductive thinking</p>
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COURSE CONTENT	<ul style="list-style-type: none"> • Definition, introductory concepts and characteristics of technological progress and innovation - Obstacles, success guidelines and measurement of innovation. • Strategy for technological progress and innovation - Model of national strategy - Dynamic innovation models. • Open innovation - Cyclical and open economy - Knowledge, proficiency and talent. • Sources and transfer of innovation - Innovation and uncertainty. • Global innovation action - The state's contribution to innovation. • Basic concepts and introduction to the STATA econometric tool. • Theoretical approach: "Binary Outcome Models (probit - logit - order probit). • Analytical article presentation using STATA
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USE OF ICT IN TEACHING	On a case-by-case basis, presentations via PowerPoint. Also assignments based on econometric software packages.
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COURSE DESIGN	<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">Activity/Method</th> <th style="width: 40%;">Semester workload</th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td style="text-align: center;">63</td> </tr> <tr> <td>Laboratory practice</td> <td style="text-align: center;">40</td> </tr> <tr> <td>Study and analysis of bibliography</td> <td style="text-align: center;">10</td> </tr> <tr> <td>Presentations of academic articles</td> <td style="text-align: center;">10</td> </tr> <tr> <td>Exam</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Total</td> <td style="text-align: center;">125</td> </tr> </tbody> </table>	Activity/Method	Semester workload	Lectures	63	Laboratory practice	40	Study and analysis of bibliography	10	Presentations of academic articles	10	Exam	2	Total	125
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COURSE ASSESSMENT	Language of evaluation is Greek. The evaluation methods are: a) Multiple choice test, b) Short answer questions, c) Development questions, d) Power point presentations.
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SUGGESTED BIBLIOGRAPHY	<p>-Suggested bibliography:</p> <ul style="list-style-type: none"> •Braun, E., 1998. Technology in Context (1st ed.). London: Routledge
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