

COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Economics and Management Science		
ACADEMIC UNIT	Department of Economics		
LEVEL OF STUDIES	6		
COURSE CODE	606	SEMESTER	6 th and 8 th
COURSE TITLE	Applied Econometrics		
INDEPENDENT TEACHING ACTIVITIES <i>if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits</i>	WEEKLY TEACHING HOURS	CREDITS	
	4	6 ECTS	
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	Special background, specialized general knowledge, skills development		
PREREQUISITE COURSES:	No		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS			
COURSE WEBSITE (URL)			

(2) LEARNING OUTCOMES

<p>Learning outcomes</p> <p><i>The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.</i></p> <p><i>Consult Appendix A</i></p> <ul style="list-style-type: none"> • <i>Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</i> • <i>Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</i> • <i>Guidelines for writing Learning Outcomes</i> 																
<p>The course aims to convey the basic principles of the branch of econometrics at both a theoretical and a practical level using econometric programs (Stata and EViews). The aim of the course is specifically the learning and application of the main econometric tools used in the modern empirical literature of economic science. More specifically, after the successful completion of the course the student will be able to:</p> <ul style="list-style-type: none"> • Recognize modern econometric methodologies and explains their use in financial applications. • Use econometric tools to study economic relationships and understand the limitations of methodologies. 																
<p>General Competences</p> <p><i>Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i></td> <td style="width: 50%; border: none;"><i>Project planning and management</i></td> </tr> <tr> <td style="border: none;"><i>Adapting to new situations</i></td> <td style="border: none;"><i>Respect for difference and multiculturalism</i></td> </tr> <tr> <td style="border: none;"><i>Decision-making</i></td> <td style="border: none;"><i>Respect for the natural environment</i></td> </tr> <tr> <td style="border: none;"><i>Working independently</i></td> <td style="border: none;"><i>Showing social, professional and ethical responsibility and sensitivity to gender issues</i></td> </tr> <tr> <td style="border: none;"><i>Team work</i></td> <td style="border: none;"><i>Criticism and self-criticism</i></td> </tr> <tr> <td style="border: none;"><i>Working in an international environment</i></td> <td style="border: none;"><i>Production of free, creative and inductive thinking</i></td> </tr> <tr> <td style="border: none;"><i>Working in an interdisciplinary environment</i></td> <td style="border: none;"><i>.....</i></td> </tr> <tr> <td style="border: none;"><i>Production of new research ideas</i></td> <td style="border: none;"><i>Others...</i></td> </tr> </table>	<i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i>	<i>Project planning and management</i>	<i>Adapting to new situations</i>	<i>Respect for difference and multiculturalism</i>	<i>Decision-making</i>	<i>Respect for the natural environment</i>	<i>Working independently</i>	<i>Showing social, professional and ethical responsibility and sensitivity to gender issues</i>	<i>Team work</i>	<i>Criticism and self-criticism</i>	<i>Working in an international environment</i>	<i>Production of free, creative and inductive thinking</i>	<i>Working in an interdisciplinary environment</i>	<i>.....</i>	<i>Production of new research ideas</i>	<i>Others...</i>
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- Search for, analysis and synthesis of data and information, with the use of the necessary technology
- Decision-making
- Working independently
- Criticism and self-criticism
- Production of free, creative and inductive thinking
- Working in an interdisciplinary environment

(3) SYLLABUS

This class will cover the following topics in econometrics:

1. Descriptive statistics in Stata.
2. Simple and multiple regression analysis, estimation, evaluation and interpretation of results.
3. Testing for violations of assumptions (heteroscedasticity, multicollinearity, autocorrelation), Chow test for structural breaks, testing restrictions.
4. Dynamic models and time series analysis.
5. Panel data econometric methods.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY <i>Face-to-face, Distance learning, etc.</i>	Face-to-face	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i>	e-mail is used for the communication with the students and an electronic platform is used for posting students' grades. Moreover, courses are delivered with the assistance of a portable computer in a computer lab	
TEACHING METHODS <i>The manner and methods of teaching are described in detail. Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc. The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</i>	Activity	Semester workload
	Lectures,	40*3=120
	directed study	20*1=20
	non-directed study	10*1=10
	Course total	150
STUDENT PERFORMANCE EVALUATION <i>Description of the evaluation procedure Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical</i>	<ol style="list-style-type: none"> 1) Written final exam in the Greek language which accounts for 70% of the final grade. The exam includes multiple choice questions and comprehension questions. 2) Written midterm exam (30% of the final mark). 	

examination of patient, art interpretation, other

Specifically-defined evaluation criteria are given, and if and where they are accessible to students.

(5) ATTACHED BIBLIOGRAPHY

Recommended Textbook:

- Asteriou, D., and Hall, S. (2018). *Applied Econometrics*, Propompos Publishing.

Additional Textbooks:

- Dritsaki, C., and Dritstaki, M. (2020). Introduction to Econometrics with the use of the Software EVIEWS (2nd Edition), KLEIDARITHMOS Publishing.
- Halkos, G. (2019). *Econometrics* (2nd Edition), Disigma Publishing.
- Gujarati, D., and Porter, D. (2012). *Econometrics, Principles and Applications* (5ⁿ Edition), Tziolas Publishing.
- Wooldridge, J. (2022). *Introduction to Econometrics* (2nd Edition in Greek), Papazisis Publishing.