COURSE OUTLINE

(1) GENERAL

SCHOOL	Economics & Management Science		
ACADEMIC UNIT	Economics		
LEVEL OF STUDIES	Bachelor		
COURSE CODE		**SEMESTER**	**4**
COURSE TITLE	Econometrics II		
INDEPENDENT TEACHING ACTIVITIES *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*		**WEEKLY TEACHING HOURS**	**CREDITS**
	Lectures	4	
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).			
COURSE TYPE *general background, special background, specialised general knowledge, skills development*	Special background, and skills development		
PREREQUISITE COURSES:	Econometrics I, Mathematics, Statistics, Microeconomics, Macroeconomics		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	No		
COURSE WEBSITE (URL)			

(2) LEARNING OUTCOMES

Learning outcomes

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.

Consult Appendix A

- *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*
- *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*
- *Guidelines for writing Learning Outcomes*

General Competences

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?

Search for, analysis and synthesis of data and information, with the use of the necessary technology	*Project planning and management*
Adapting to new situations	*Respect for difference and multiculturalism*
Decision-making	*Respect for the natural environment*
Working independently	*Showing social, professional and ethical responsibility and sensitivity to gender issues*
Team work	*Criticism and self-criticism*
Working in an international environment	*Production of free, creative and inductive thinking*
Working in an interdisciplinary environment	*……*
Production of new research ideas	*Others…*
	…….

1. Search for, analysis and synthesis of data and information, with the use of the necessary technology
2. Decision-making
3. Working in an interdisciplinary environment
4. Production of free, creative and inductive thinking

(3) SYLLABUS

Linear Model

Maximum Likelihood Estimation
of the Classical Linear Model,
and the Generalized Linear Model

Applications of the *Generalized Linear Regression Model:*
Seemingly Unrelated Regressions *(S.U.R.)*

Statistics

Introduction to Asymptotic Theory

***Simultaneous Equations Systems*:**

The Cowles Commission Model

Basic Assumptions and Symbolism

The identification problem, observational equivalence
The classical identification method: order and rank conditions.
Fisher's identification method.

Classical Single-Equation Estimation:
T*he Indirect Least Squares (ILS)*
Two-Stages Least Squares (2SLS)

Classical Multiple-Equation Estimation
Two-Stages (2SLS) and Three-Stages (3SLS) Least Squares
Instrumental-Variables Estimation

Limited-Information Maximum Likelihood (LIML) and
Full-Information Maximum Likelihood (FIML) Estimators

Qualitative Dependent Variables

1. Linear Probability Model
2. Binomial Logit
3. Binomial Probit

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY *Face-to-face, Distance learning, etc.*	Face-to-face
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY *Use of ICT in teaching, laboratory education, communication with students*	Use of ICT in teaching: laboratory teaching and exercises
TEACHING METHODS *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*	
STUDENT PERFORMANCE EVALUATION *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 examination of patient, art interpretation, other* *Specifically-defined evaluation criteria are given, and if and where they are accessible to students.*	1. Written examination: Problemes to be solved and/or multiple choice questionnaires 2. Laboratory work

Activity	***Semester workload***
Lectures	
laboratory exercises	
Course total	

(5) ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

Text-books: choose one of the following:

1. Studenmund, A. (Εκδόσεις Πασχαλίδη, 2016): Οικονομετρία: Πρακτικός Οδηγός Χρήσης
2. Τζαβαλής, Η. (Εκδόσεις Ο.Π.Α., 2008): Οικονομετρία

Bibliography:

1. Δρεττάκης, Μ. (Αθήνα, 1975/Ιωάννινα, 2003): Θεωρητική Οικονομετρία Ι, ΙΙ
2. Δρεττάκης, Μ. (Αθήνα, 1975/Ιωάννινα, 2003): Γραμμική Άλγεβρα για τους σπουδαστές της Οικονομετρίας
3. Chow, G.C. Mc Graw Hill, 1983): Econometrics
4. Dhrymes, P.J. (Springer-Verlag, 1974): Econometrics, Statistical Foundations and Applications
5. Dhrymes, P.J. (Springer-Verlag, 1989): Topics in Advanced Econometrics, Probability Foundations
6. Green, W.H. (Macmillan Publishing Company, 1993): Econometric Analysis
7. Gujarati, D. (Mc Graw Hill, 1978): Basic Econometrics
8. Gujarati, D. (Εκδόσεις Τζιόλα, 2012): Οικονομετρία, Αρχές και Εφαρμογές

- Related academic journals: