COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Economics and Management Science			
ACADEMIC UNIT	Department of Economics			
LEVEL OF STUDIES	6			
COURSE CODE	723		SEMESTER 7 ^t	h
COURSE TITLE	Economic Applications using Software Packages			
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	
			4	6 ECTS
Add rows if nacassary. The organisation of	f toaching and	the teaching		
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 bac	ekground		
PREREQUISITE COURSES:	No			
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

By the end of the course the student will be able to:

- Use modern software packages in economic applications, econometrics, applied economics and statistics
- Use basic programming languages

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

Adapting to new situations Decision-making

Working independently

Team work

Working in an international environment Working in an interdisciplinary environment

Production of new research ideas

Project planning and management

Respect for difference and multiculturalism

Respect for the natural environment

Showing social, professional and ethical responsibility and

sensitivity to gender issues Criticism and self-criticism

Production of free, creative and inductive thinking

Others...

Search for, analysis and synthesis of data and information, with the use of the necessary technology

Working independently

Working in an interdisciplinary environment

Criticism and self-criticism

Production of free, creative and inductive thinking

(3) SYLLABUS

Software Packages' Overview: Notational Conventions and Typesetting / Palettes / Character Formatting / Syntax and Basic Commands / Calculus / Linear Algebra / Equations / Plots / Saving Files

Statistics: Presenting and Summarizing Data / Estimating Data Parameters / Parametric Tests of Hypotheses / Non-Parametric Tests of Hypotheses / Statistical Classification / Data Regression

Economics: Consumer Choice and the Lagrangian Multiplier Method / Individual and Market Demand / Pure Exchange / Intertemporal Trade / Choice under Uncertainty and Imperfect Information / Cost Minimization / Short- and Long-run Costs / Duality / Profit Maximization / Production and Trade / Dynamic Optimization and the Calculus of Variation.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face-to-face		
Face-to-face, Distance learning, etc. USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY Use of ICT in teaching, laboratory education,	Use of ICT in teaching, laboratory education, communication with students		
communication with students TEACHING METHODS	Activity	Semester workload	
The manner and methods of teaching are	Lectures,	52	
described in detail. Lectures, seminars, laboratory practice,	directed study	48	
fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art	non-directed study	50	
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			
	Course total	150 hours	
STUDENT PERFORMANCE			
EVALUATION Description of the evaluation procedure	Multiple choice questionnaires		
Language of evaluation, methods of evaluation, summative or conclusive, multiple	Laboratory work		
choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical	Oral presentations		
public presentation, laboratory work, clinical			

examination of patient, art interpretation, other	Written final exam
Specifically-defined evaluation criteria are given, and if and where they are accessible to students.	

(5) ATTACHED BIBLIOGRAPHY

- 1) Προγραμματίζοντας σε matlab, Στεφανάκος Χ.Ν 2) Εισαγωγή στο Mathematica, Παπαδάκης Κωνσταντίνος Ε.