COURSE OUTLINE

(1) GENERAL

SCHOLL	Economics and Public Administration				
ACADEMIC UNIT	Economic and Regional Development				
LEVEL OF STUDIES	Undergraduate				
COURSE CODE	800004 SEMESTER A'				
COURSE TITLE	STATISTICS I				
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 course, give the weekly teaching hours and the total credits.		WEEKLY TEACHING HOURS		CREDITS	
		4		6	
Add rows if necessary. The teaching organisation and methods used are described in detail at (d).					
COURSE TYPE general background, special background, specialised general knowledge, skills development	General backround, general knowledge, skills development				
PREREQUISITE COURSES:	No				
LANGUAGE OF INSTRUCTION and EXAMINATIONS :	Greek				
IS THE COURSE OFFERED TO ERASMUS STUDENTS	No				
COURSE WEBSITE (URL)	https://openeclass.panteion.gr/courses/TMI260/				

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competencies 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

After successfully completing the course, students are expected to:

- Understand the basic concepts of probability theory and statistics.
- Understand the basic statistical measures of central tendency and dispersion.
- Know the characteristics of basic theoretical probability distributions.
- Understand the methodology of collecting, processing and presenting statistical data.
- Apply methods of inductive statistics (confidence intervals and statistical tests).

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	Project planning and management			
information with the use of the necessary technology.	Respect for difference and multiculturalism			
Adapting to new situations	Respect for the natural environment			
Decision-making	Showing social, professional and ethical responsibility and			
Working independently	sensitivity to gender issues			
Teamwork	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

- Search, analysis and synthesis of data and information, using the necessary technologies
- Work in an interdisciplinary environment
- Autonomous work
- Promotion of free, creative and inductive thinking

(3) SYLLABUS

The subject of the Statistics I course is related to:

(a) the design of the data collection process;

- (b) their concise and effective presentation, and finally
- (c) drawing corresponding conclusions.

The main modules of the course are the following:

- Define, collect and visualize data.
- Basic descriptive statistical measures: mean, standard deviation, median, quartiles, deciles.
- Basic probability theory (conditional probability, Bayes theorem)
- Discrete and continuous distributions.
- Confidence intervals, one and two sample hypothesis testing

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY Face-to-face, Distance learning, etc.	Face-to-face		
	Dinstance learning in case of emergency		
USE OF INFORMATION AND	• Use of presentation and spreadsheet software		
COMMUNICATIONS TECHNOLOGY	• Email communication with students		
Use of ICT in teaching, laboratory education, and communication with students	• Support of the learning process using the eclass electronic platform.		
TEACHING METHODS	Activity	Semester Workload	
The manner and methods of teaching are described in detail	Lectures	52	
The manner and methods of teaching are described in detail. Lectures, seminars, laboratory practice,	Lectures Study and analysis of	52 98	
The manner and methods of teaching are described in detail. Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography,	Lectures Study and analysis of bibliography	52 98	
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, projects, essay writing, artistic	Lectures Study and analysis of bibliography Course Total (25 hours per ECTS)	52 98 150	
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, projects, essay writing, artistic creativity, etc.	Lectures Study and analysis of bibliography Course Total (25 hours per ECTS)	<u>52</u> 98 150	
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, projects, essay writing, artistic creativity, etc. The student's study hours for each learning	Lectures Study and analysis of bibliography Course Total (25 hours per ECTS)	<u>52</u> 98 150	
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, projects, essay writing, artistic creativity, etc. The student's study hours for each learning activity are given, as well as the hours of non- diversed each eventure to the methods.	Lectures Study and analysis of bibliography Course Total (25 hours per ECTS)	<u>52</u> 98 150	

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	•	The evaluation of students is done through written exams in the Greek language (which in exceptional circumstances is carried out electronically). The written exams are held at the end of the semester during the examination period and represent 100% of the final grade.
Specifically-defined evaluation criteria are given, and if and where they are accessible to students.		

(5) ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

- Berenson L. Mark, Levine M. David, Szabat A. Kathryn (2018) Βασικές Αρχές Στατιστικής για Επιχειρήσεις-Έννοιες και Εφαρμογές
- Healey, J. (2006) The Essentials of Statistics: A Tool for Social Research. Wadsworth.