COURSE OUTLINE: STATISTICS II

(1) GENERAL

SCHOOL	School of Economic Sciences			
ACADEMIC UNIT	Department of Accounting and Finance			
LEVEL OF STUDIES	Undergraduate			
COURSE CODE	AF206	F206 SEMESTER 2 nd		
COURSE TITLE	Statistics 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 and exercises			3	5
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	Specialised g	eneral knowled	ge	
PREREQUISITE COURSES:				
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek			
IS THE COURSE OFFERED TO ERASMUS STUDENTS	YES			
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

The course focuses on estimation (point estimate and confidence intervals). The basic principles of inductive statistics or statistical inference are developed and theoretically consistent ways of generalizing to the population of statistical inferences derived from random samples are presented.

Upon the successful completion of the course, the students will be able to:

- Know the basic methods of sampling.
- Know the properties of the estimators (unbiasedness, consistency, efficiency).
- Know the asymptotic properties of estimators.
- Know how to construct confidence intervals for parameters.
- Comprehend what the confidence intervals refer to.

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,	Project planning and management
	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
	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
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- Production of probabilistic and inductive thinking
- Search for, analysis and synthesis of data and information
- Working independently
- Team work

(3) SYLLABUS

The content of the course includes:

- Point estimates
- Properties of estimators
- Asymptotic properties of estimators
- Confidence intervals of mean and variance
- Asymptotic confidence intervals

(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, communication with students	Use of the electronic platform e-class		
TEACHING METHODS	Activity	Semester workload	
The manner and methods of teaching are	lectures	15	
described in detail. Lectures, seminars, laboratory practice,	written assignment	50	
fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.	exercises	30	
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	independent study	55	
	Course total	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 Specifically-defined evaluation criteria are given, and if and where they are accessible to students.	 I. Final written exams (60%) Theoretical questions Problem solving based of quantitative data. II. Written assignment in group of the second second	on valuation methods and	

(5) SUGGESTED BIBLIOGRAPHY

Ανάλυση δεδομένων και μεθοδολογία έρευνας, Νικόλαος Σαριαννίδης, Γεώργιος Κοντέος, ISBN: 978-618-84462-4-3, εκδόσεις ΑΛΕΞΑΝΔΡΟΣ

2. Εφαρμοσμένη Στατιστική, Μπόρα - Σέντα Ε., Μωυσιάδης Χρόνης Θ., ISBN: 960-431-184-0, εκδόσεις Ζήτη