

COURSE LAYOUT

1. GENERAL

SCHOOL	FOOD, BIOTECHNOLOGY and DEVELOPMENT		
DEPARTMENT	AGRICULTURAL ECONOMICS & RURAL DEVELOPMENT		
STUDY LEVEL	<i>Undergraduate</i>		
COURSE CODE		ΕΞΑΜΗΝΟ ΣΠΟΥΔΩΝ	3 th
COURSE TITLE	Statistics II		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	ECTS
Lectures		4	5
COURSE TYPE	Core Scientific Area		
PREREQUISITES	Statistics I		
LANGUAGE	Greek		
IS THE COURSE OFFERED for ERASMUS STUDENTS?	No		
COURSE WEB PAGE	https://openeclass.aua.gr/courses/AOA137/		

2. LEARNING OUTCOMES

Learning Outcomes
<p>It is an introductory course on the basic principles and concepts of Statistics using the knowledge and tools of the course Statistics I.</p> <p>The goal of the course is to provide the necessary Statistical tools for the creation and processing of statistical models in the area social sciences.</p> <p>It is the second of two mandatory courses where the student acquires statistical tools in order to assist a basic research using statistical models in the disciplines of social sciences such as Marketing, MBA in Agribusiness, Agricultural Sociology etc.</p> <p>The course is focusing on the understanding and interpretation of the statistical results as well as, in the active participation of students in data analysis. The mathematical concepts and definitions will be used only for the development of the theory.</p> <p>Upon successful completion of the course the students:</p> <ul style="list-style-type: none"> • are able to gather and interpret relevant data (usually within their field of knowledge) to formulate judgments that include reflection on socially relevant, and generally scientific issues. • They have proven knowledge and understanding of Statistics which is based on their general secondary education and, while supported by advanced scientific textbooks, also includes views arising from current developments at the forefront of their field of knowledge. • They have developed those knowledge acquisition skills that they need to pursue further studies with a high degree of autonomy
General Competences
<ul style="list-style-type: none"> • Data mining and data analysis using the appropriate technologies. • Autonomous work • Decision making • Critique and self-critique

- Advance of free thinking and reasoning

3. COURSE CONTENT

- Types of Data and Methods of collecting data
- Data presentation
- Measures of central location and variability
- Hypothesis testing
- Simple linear regression
- Time series analysis
- Index numbers

4. TEACHING and LEARNING METHODS - Evaluation

TEACHING METHOD	In class	
USE OF INFORMATICS and COMMUNICATION TECHNOLOGIES	<ul style="list-style-type: none"> • e-class platform • Power-Point slides • Online homework crosswords in html 	
TEACHING ORGANISATION	<i>Activity</i>	<i>Work Load</i>
	Lectures	44
	Seminars	8
	Literature review	63
	<i>Course total (25 hours of student work load per ECTS)</i>	125
STUDENTS EVALUATION	Written final exams (100%) including: <ul style="list-style-type: none"> ▪ Multiple choice questions ▪ Exercises 	

5. BIBLIOGRAPHY

- Statistics for Management and Economics, Keller Gerald • **ISBN-10:** 0538477490
- Theory, applications and use of statistical programs in PC, Halkos George, eds Typothito
- Statistics: Methods of Analysis for Business Decisions, John Halkias, eds Rosili,