COURSE OUTLINE

Ημερομηνία: 4 Νοε 2022

A. INFORMATION FOR THE COURSE

A1. School	School of Science and Technology of Information
A2. Department	Department of Statistics
A3. Master Programme	
A4. Course Code	6031
A5. Title of the Course	INTRODUCTION TO PROBABILITY AND STATISTICS USING R

Lecturers

Name	Rank	Specialization
TSAMTSAKIRI PANAGIOTA	PhD Candidate	
KONDAKIS MARIOS	PhD Candidate	
BARBOUNAKIS PETROS	PhD Candidate	
PEDELI XANTHI-XANTHIPI	Assistant Professor	
KARLIS DIMITRIS	Professor	Statistics

B. TYPE OF COURSE

B1. Year of Study	1
B2. Semester	2nd
B3. Level of Course (if applicable)	1st Cycle
B4. Type of course	Core
B5. Field	Background
B6. ECTS credits allocated (ECTS)	7.50
B7. Is the Course in the Syllabus?	Yes
B8. If yes, which is the reference Page?	29-68
B9. Is there a site for the course?	Yes https://www.dept.aueb.gr/el/stat-courses.htm

C. INSTRUCTION

C1. Lectures Include:	Classroom lectures: Yes Distance learning lectures: No Seminars: No Laboratory exercises: No Field training exercise: No Literary analysis: Yes Tutorial: Yes Interactive teaching: No Educational visits: No Project: No Essays/reports: Yes Independent study: Yes Lectures given by scientists: No Internship: No
C2. Scheduled Hours for Lectures per week	4.00
C3. Scheduled Hours for Tutorials per week	
C4. Scheduled Hours for Workshops per week	2.00
C5. Scheduled Hours for Case Studies per week	
C6. Scheduled Hours for Other Activities per week	
C7. Scheduled Hours for Lectures per semester	52
C8. Scheduled Hours for Tutorials per semester	
C9. Scheduled Hours for Workshops per semester	26
C10. Scheduled Hours for Case Studies per semester	
C11. Scheduled Hours for Other Activities per semester	
C12. Mode of Delivery	Face to Face
C13. Student’s Evaluation	Written examination at the end of the semester: Yes Oral examination: No Midterm exam: No Homework: No Project: Yes Public Presentation: No Laboratory exercises: No Practical exercises: No Exempt work: No

C14. Language of Instruction	Greek

D. PREREQUISITE COURSES

E. COURSE CONTENTS (Syllabus)

Introduction to Statistics, methods for describing data statistics, frequency tables, diagrams, descriptive measures for central tendency, variability, relative standing, asymmetry and kurtosis. EDA techniques. Introduction to regression theory and time-series analysis, statistical packages SPSS and MINITAB.

F. LEARNING OUTCOMES

The student will be able to analyse a data set providing descriptive analysis, using statistical packages.

G. LITERATURE

G1. Use of Multiple Literature	Yes
G2. Recommended or required reading	