

COURSE OUTLINE

Ημερομηνία: 11 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	6246
A5. Title of the Course	BIOSTATISTICS I

Lecturers

Name	Rank	Specialization
DEMIRIS NIKOLAOS	Assistant Professor	

B. TYPE OF COURSE

B1. Year of Study	3
B2. Semester	6th
B3. Level of Course (if applicable)	1st Cycle
B4. Type of course	Elective
B5. Field	Scientific Field
B6. ECTS credits allocated (ECTS)	7.00
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

C. INSTRUCTION

C1. Lectures Include:	Classroom lectures: Yes Distance learning lectures: No Seminars: No Laboratory exercises: Yes Field training exercise: No Literary analysis: No 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	8
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: Yes Project: No Public Presentation: No Laboratory exercises: Yes Practical exercises: Yes Exempt work: No

C14. Language of Instruction	Greek
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D. PREREQUISITE COURSES

E. COURSE CONTENTS (Syllabus)

This course introduces Statistics undergraduates students to the fundamental notions of Epidemiology and statistical methods used in Medicine. Emphasis is given in the parameter interpretation and real life problems.

The material of the course involves detailed description and coverage of the following topics:

Medical and epidemiological studies, disease and risk measures (emphasis is given in 2x2 contingency tables), diagnostic tests, clinical trials, cross-over trials, additional methods for categorical data, confounding factors, Controlling and adjusting for the effect of confounding factors, sample size calculations, introduction to logistic regression, introduction to epidemic models, control of infectious diseases.

F. LEARNING OUTCOMES

To learn the basic types of Medical surveuys.

To be able to study and understand Medical reports and scientific articles.

To analyze medical data in a basic level.

To motivate students continue their studies in Biostatistics and work in this field.

G. LITERATURE

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