

## COURSE OUTLINE

Ημερομηνία: 6 Ιουλ 2023

## A. INFORMATION FOR THE COURSE

A1. School	School of Information Sciences and Technology
A2. Department	Department of Statistics
A3. Master Programme	
A4. Course Code	6134
A5. Title of the Course	DEMOGRAPHIC STATISTICS

## Lecturers

Name	Rank	Specialization
DANTIS CHARALAMPOS	Visitor	

## B. TYPE OF COURSE

B1. Year of Study	2
B2. Semester	4th
B3. Level of Course (if applicable)	1st Cycle
B4. Type of course	Elective
B5. Field	Background
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 <a href="https://www.dept.aueb.gr/el/stat-courses">https://www.dept.aueb.gr/el/stat-courses</a>

## C. INSTRUCTION

C1. Lectures Include:	Classroom lectures: Yes Distance learning lectures: No Seminars: No Laboratory exercises: Yes Field training exercise: No Literary analysis: Yes Tutorial: No Interactive teaching: Yes Educational visits: No Project: Yes Essays/reports: No 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	2.00
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	26
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
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**D. PREREQUISITE COURSES**

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**E. COURSE CONTENTS (Syllabus)**

Key Concepts: Introduction to Demography, demographic events, types of demographic data, sources of demographic data, publications of demographic data, basic demographic measures, ratios, proportions, indices or coefficients, population growth - basic equation). Mortality: Mortality by causes of death, measures of mortality, probability of death, Mortality Comparisons - Standardization Methods, Direct (Direct), Indirect Standardization. Survival Tables: Construction of Survival Tables, Survival Table as a Stationary Population, Mortality Rate. Stochastic Approximation of Survival Table Functions, Age-Based Mortality Modeling. Multiple Decrement Tables: Construction of Multiple Decrement Table, Summary of Multiple Decrement Table Functions. Fertility: Fertility Measures, Reproduction Rates. Fertility modeling. Nuptiality: Measures of Nuptiality, Nuptiality Tables. Estimates, forecasts and population projections (Population Projections): Forecasting techniques, Population projections, Analytical-synthetic method.

**F. LEARNING OUTCOMES**

The student will be able to analyse demographic data

**G. LITERATURE**

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