COURSE OUTLINE

Ημερομηνία: 8 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	6114
A5. Title of the Course	OFFICIAL STATISTICS

Lecturers

Name	Rank	Specialization
LIVADA ALEXANDRA	Associate Professor	ECONOMIC STATISTICS

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	Specific 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 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: Yes Literary analysis: Yes Tutorial: Yes Interactive teaching: Yes Educational visits: Yes Project: Yes Essays/reports: Yes Independent study: No Lectures given by scientists: Yes 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: Yes Laboratory exercises: Yes Practical exercises: Yes Exempt work: No

C14. Language of Instruction	Greek

D. PREREQUISITE COURSES

E. COURSE CONTENTS (Syllabus)

Simple and Composite index examples. Methods for composite indexes calculations, chained and weighted indexes. Base period. Possible distortions, Sources of errors and their role in the accuracy of index calculation. Sample changes and redefining of weights. Most important criteria for evaluating indicators. Procedure for harmonization-connection of indicators that measure the same economic-social phenomenon. Basic methodology and main methods of designing complex indicators, methods of weighing, mixing and sensitivity analysis techniques to utilize the quality of complex indicators.
Fundamental principles and sources of official statistics. International organizations, EUROSTAT Hellenic Statistical Authority. Reference to calculation methods and evaluation of key indicators such as, consumer price index, Employment and labor cost indices, Economic activity. Methodology for comparing indicators at the transnational level. Linking the above indicators with the survey tools used to measure them, such as for example a household budget surveys.

International statistical indicators, eg International Human Development Index), International Multi Variable Poverty Index (MPI), and compare it to the Harmonized Index of Poverty, as measured by EUSILC at European level. Official statistics using Big Data. Advantages and disadvantages

F. LEARNING OUTCOMES

Upon successful completion of the course, students will be expected to:
be aware of the usefulness of indicators, their advantages and disadvantages
are able to calculate simple indicators, but also to design a methodology for calculating complex indicators.
know and apply indicator evaluation methodologies
understand to design and implement methodologies for harmonization of indicators
Get to know the national and international official statistics
understand the connection of measurement tools, questionnaire design and research methodology with the calculation of indicators

G. LITERATURE

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