

## COURSE OUTLINE

### (1) GENERAL

<b>SCHOOL</b>	SCHOOL OF INFORMATION SCIENCES & TECHNOLOGY		
<b>ACADEMIC UNIT</b>	DEPARTMENT OF STATISTICS		
<b>LEVEL OF STUDIES</b>	1st Cycle (UNDERGRADUATE)		
<b>COURSE CODE</b>	<b>6114</b>	<b>SEMESTER</b>	<b>6<sup>th</sup></b>
<b>COURSE TITLE</b>	<b>OFFICIAL STATISTICS</b>		
<b>INDEPENDENT TEACHING ACTIVITIES</b>		<b>WEEKLY TEACHING HOURS</b>	<b>CREDITS</b>
Lectures		4	7
Workshops			
Labs		2	
<b>COURSE TYPE</b>	Elective – Specific Background		
<b>PREREQUISITE COURSES:</b>			
<b>LANGUAGE OF INSTRUCTION and EXAMINATIONS:</b>	ENGLISH		
<b>IS THE COURSE OFFERED TO ERASMUS STUDENTS</b>	NO		
<b>COURSE WEBSITE (URL)</b>	<a href="https://www.dept.aueb.gr/en/stat/content/official-statistics-7-ects">https://www.dept.aueb.gr/en/stat/content/official-statistics-7-ects</a>		

### (2) LEARNING OUTCOMES

<b>Learning outcomes</b>
After successfully completing the course, students will be able to understand the basic concepts and principles of international and National official statistics. They will also be able to know the basic concepts and principles of constructing, estimating and using index numbers.
<b>General Competences</b>
<ul style="list-style-type: none"> <li>• Search, analysis and synthesis of data and information, using the necessary technologies</li> <li>• Review, Adaptation to new situations</li> <li>• Decision-making</li> <li>• Autonomous work</li> <li>• Teamwork</li> <li>• Working in an international environment</li> </ul>

- Working in an interdisciplinary environment
- Generating new research ideas
- Project planning and management
- Respect for diversity and multiculturalism
- Respect for the natural environment
- Demonstrating social, professional and ethical responsibility and sensitivity to gender issues
- Exercising criticism and self-criticism
- Promoting free, creative and inductive thinking

### (3) SYLLABUS

Introduction, indices, simple and complex numbers, simple size indices, individual indices behavior, mathematical formulae for weighted and unweighted index numbers, base, base change, unifying indices time series, errors, heterogeneity, sampled indices in Greece, indices as random variables.

Family budget surveys, Metadata. Describing and using data and surveys by EUROSTS, OECD, UN, etc.

### (4) TEACHING and LEARNING METHODS - EVALUATION

<b>DELIVERY</b>	Face-to-face	
<b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b>	YES	
<b>TEACHING METHODS</b>	<b>Activity</b>	<b>Semester workload</b>
	Lectures	55
	Lab Exercise	10
	Field Exercise	10
	Studying and Analyzing Bibliography	5
	Tutorial	15
	Interactive Teaching	10
	Educational Visits	10
	Project	15
	Assignment	40
	Scientists Lectures	5
	<b>Course Total</b>	<b>175</b>
<b>STUDENT PERFORMANCE EVALUATION</b>	Written Exam at the end of the Semester	60
	Project	10

	Public Presentation	5
	Lab Exercises	15
	Practical Exercises	10
Information is available at eclass		

#### **(5) ATTACHED BIBLIOGRAPHY**

- Τζωρτζόπουλος Π., Α Λειβαδά (2011) «Αριθμοδείκτες Και Επίσημες Στατιστικές», Οικονομικό Πανεπιστήμιο Αθηνών, Αθήνα.
- OECD (2008) “Handbook on Constructing Composite Indicators – Methodology and User Guide”.