COURSE OUTLINE

1. GENERAL

SCHOOL	SOCIAL, POLITICAL AND ECONOMIC SCIENCES		
DEPARTMENT	SOCIAL WORK		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	Δ4-2019	**SEMESTER**	4th
COURSE TITLE	SOCIAL STATISTICS		

TEACHING ACTIVITIES *in case the ECTS Credits are distributed in distinct parts of the course e.g. lectures, labs etc. If the ECTS Credits are awarded to a course as a whole, then please note down the teaching hours per week and the corresponding ECTS Credits.*	**TEACHING HOURS PER WEEK**	**ECTS CREDITS**
	3	5
Add lines if necessary. The teaching organization and methods used are described in the point 4.		

COURSETYPE *Background, General Knowledge, Scientific Area, Skill Development*	BACKGROUND
PREREQUISITES:	NO
TEACHING & EXAMINATION LANGUAGE:	GREEK
COURSE OFFERED TO ERASMUSSTUDENTS:	NO
URL COURSE:	https://eclass.duth.gr/courses/437144/

2. LEARNING OUTCOMES

Learning Outcomes

Please describe the learning outcomes of the course: Knowledge, skills and abilities acquired after the successful completion of the course.

Statistics is a branch of mathematics, while its applications are extend to almost all the branches of science and technology. Social statistics is defined by the content of its subject, which is the quantitative investigation of issues related to health, social welfare, education and employment, immigration, social and occupational mobility. It is defined as the methodology for analysis and processing of data that arise within the broaden sociological context. The aim of the course is to provide students with the necessary knowledge required to summarize, classify, describe and present datasets. The appropriate tool is descriptive statistics methods. After completing this course students summarize, classify, describe and present datasets. The statistical results are purely descriptive and relate exclusively to the set of data used in the analysis, while they cannot be used to draw conclusions about a wider set of data.

General Skills

Search, analysis and synthesis of data and information, using the necessary technologies
Decision making
Autonomous work
Project design and management
Promoting free, creative and inductive thinking

3. COURSE CONTENT

1. Object and purpose of statistics. Social statistics.
2. The social variables and their measurement. Types of variables (quantitative, qualitative).
3. Unit of measurement, indicators, social indicators. Measuring scales.
4. Descriptive statistics. Qualitative data: Classification and graphing. Frequency distributions of a set of quality data.
5. Quantitative data: Classification and graph. Frequency distributions of a set of quantitative data.
6. Quantitative data: Central voltage and position measures.
7. Quantitative data: Dispersion measures, asymmetry and curvature.
8. Probability theory issues. The importance of probability.
9. Inductive statistics and probability theory. Definitions of contingency.
10. Calculation of the probability of contingency.
11. Random variables and probability distributions.
12. Discrete theoretical probability distributions. The binomial distribution. The Poisson distribution.
13. Continuous theoretical probability distributions. The normal distribution.

4. LEARNING & TEACHING METHODS - EVALUATION

TEACHINGMETHOD *Face to face, Distance learning, etc.*	Face to face
USEOF INFORMATION&COMMUNICATIONSTECHNOLOGY(ICT) *Use of ICT in Teaching, in Laboratory Education, in Communication with students*	Use of ICT in Teaching and in Communication with students
TEACHING ORGANIZATION *The way and methods of teaching are described in detail.* *Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research& analysis, Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning, Study visits, Study / creation, project, creation, project. Etc.* *The student study hours for each learning activity are listed as well as the non-guided study hours so that the total workload at the semester level corresponds to the ECTS standards.*	
STUDENT EVALUATION *Description of the evaluation process* *Assessment Language, Assessment Methods, Formative or Concluding, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Essay / Report, Oral Exam, Public Presentation, Laboratory Report, Clinical examination of a patient, Artistic interpretation, Other/Others* *Explicitly defined assessment criteria and if and where are accessible to students are mentioned.*	Assessment Language Greek Assessment Methods A written examination at the end of the semester (100%)

Activity	*Workload/semester*
Lectures	40
Laboratory Exercise	30
Bibliographic research& analysis	30
Tutoring	25
Total	**125**

5. SUGGESTED BIBLIOGRAPHY

Ζωγράφος, Κ. (1993). *Μαθήματα Πιθανοτήτων και Στατιστικής*. Ιωάννινα.

Καλαματιανού, Α. (2003). *Κοινωνική Στατιστική - Μέθοδοι Μονοδιάστατης Ανάλυσης*. Εκδόσεις Παπαζήση, Αθήνα.

Κιντής, Α. (1995). *Σύγχρονη Στατιστική Ανάλυση - Συμβολή στην Επιστημονική Έρευνα και στη Λήψη των Αποφάσεων*. Αθήνα: Gutenberg.

Λουκάς, Σ. Β. (2003). *Στατιστική*. Αθήνα: Εκδόσεις Κριτική.

Μάρδας, Γ. Δ. (2003). *Κοινωνική Στατιστική*. Αθήνα: Εκδόσεις Παπαζήσης.

Παπαϊωάννου, Τ. (2000). *Εισαγωγή στις Πιθανότητες*. Αθήνα: Εκδόσεις Σταμούλη.

Παπαϊωάννου, Τ. και Λουκάς, Σ. Β. (2002). *Εισαγωγή στη Στατιστική*. Αθήνα: Εκδόσεις Σταμούλη.

ANNEX OF THE COURSE OUTLINE

Alternative ways of examining a course in emergency situations

Teacher (full name):	Charalampos Tsairidis
Contact details:	xtsairid@sw.duth.gr
Supervisors:	YES
Evaluation methods:	Written distance examination through Open eclass and oral distance examination through Microsoft Teams
Implementation Instructions:	The examination of the course will be carried out through the Open eclass and Microsoft Teams applications. The link will be sent to students through Open eclass exclusively to the institutional accounts of those who have registered for the course and have learned the terms of distance education. Students will have to log in to the examination room through their institutional account, otherwise they will not be able to participate. They will also take part in the examination with a camera which they will have open during the examination. Before the examination starts, students will show their identity to the camera, so that they can be identified. The topics will be posted in Open eclass and the answers will be sent ONLY in Open eclass.