COURSE OUTLINE

(1) GENERAL

SCHOOL	SCHOOL OF SOCIAL SCIENCES		
ACADEMIC UNIT	DEPARTMENT OF CULTURAL TECHNOLOGY AND COMMUNICATION		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	EPI 311	SEMESTER	2^{O}
COURSE TITLE	QUANTITATIVE RESEARCH METHODS		

INDEPENDENT TEACHING ACTIVITIES *if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits*	WEEKLY TEACHING HOURS	CREDITS
Lectures	2	
Laboratory	2	
		6
The organisation of teaching and the teaching methods used are described in detail at (d).		

COURSE TYPE *general background, special background, specialised general knowledge, skills development*	Compulsory Optional/ General Background
PREREQUISITE COURSES:	None
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes
COURSE WEBSITE (URL)	https://eclass.aegean.gr/courses/131148/

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*
- *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*
- *Guidelines for writing Learning Outcomes*

At the end of this course students will be able to:

- recognize the importance of quantitative research in social sciences
- explain concepts such as variable, scale, population, sample, reliability and validity of the research
- describe the stages of a quantitative research and plan one
- describe the basic principles of sampling methods
- structure research hypotheses and check them with statistical criteria
- successfully handle SPSS
- interpret quantitative data using descriptive statistics criteria
- make graphs
- correlate variables and interpret the results of statistical analysis
- distinguish between the statistical criteria they should use each time

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, with the use of the necessary technology *Adapting to new situations* *Decision-making* *Working independently* *Team work* *Working in an international environment* *Working in an interdisciplinary environment* *Production of new research ideas*	*Project planning and management* *Respect for difference and multiculturalism* *Respect for the natural environment* *Showing social, professional and ethical responsibility and sensitivity to gender issues* *Criticism and self-criticism* *Production of free, creative and inductive thinking* *……* *Others…* *…….*

- Search for, analysis and synthesis of data and information, with the use of the necessary technology
- Decision making
- Working independently
- Team work
- Working in an interdisciplinary environment
- Project planning and management
- Showing social, professional and ethical responsibility
- Production of free, creative and inductive thinking.

(3) SYLLABUS

The course focuses on the use of quantitative research methods in Social Sciences. Initially, students get acquainted with concepts such as variable, scale, population, sample, reliability and validity of the research. During the semester, students become familiar with the use of the SPSS statistical package, which is a very useful tool for analyzing quantitative data.

Lectures

1: Introduction, Basic statistical concepts
2: Types of variables and types of scales
3: SPSS procedures (database creation, data entry, data classification, etc.)
4: SPSS procedures (database creation, data entry, data classification) (continued)
5: Measures of central tendency
6: Measures of variation and dispersion
7: Graphic representations
8: The x2 criterion
9: The criterion T-test
10: Correlation and correlation coefficients
11: Simple linear regression
12: One-way Analysis of Variance
13th: Revision

The Laboratory exercises follow the structure of the lectures

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY *Face-to-face, Distance learning, etc.*	Face to face lectures	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY *Use of ICT in teaching, laboratory education, communication with students*	ICT usage in teaching, laboratory education and in communication with students	
TEACHING METHODS *The manner and methods of teaching are described in detail.* *Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.* *The student's study hours for each learning*	*Activity*	*Semester workload*
	Lectures	13 * 2 = 26 hours
	Statistics exercises	13 * 2 = 26 hours
	Lectures' study	13 * 3 = 39 hours
	Homework (exercises)	19 hours
	Preparation-study for final evaluation (exams)	46 hours

activity are given as well as the hours of non-directed study according to the principles of the ECTS		
	Course total	156 hours
STUDENT PERFORMANCE EVALUATION *Description of the evaluation procedure* *Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other* *Specifically-defined evaluation criteria are given, and if and where they are accessible to students*	Language of evaluation: Greek Evaluation Methods: mid-term evaluation (two) with problem solving using SPSS (30%) and final evaluation with problem solving using SPSS and/or multiple choice questionnaire (70%). Specifications on the course as well as the evaluation criteria are made known during the first lecture and are recorded in clarity in the material that is posted throughout the semester in the e-class of the course.	

(5) ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

- Dafermos, V. (2011). *Social Statistics and Research Methodology with SPSS*, Thessaloniki: Ziti Publ..
- Roussos, P. & Tsaousis, J. (2020), *Statistics Applied to Social Sciences Using SPSS and R*, Athens: Gutenberg
- Gnardellis, Ch. (2003). *Applied Statistics*, Athens: Papazisis Publ.

- Related academic journals:

- International Statistical Review, Wiley
- Journal of Survey Statistics and Methodology, Oxford University Press
- International Journal of Quantitative Research in Education, Inderscience Publishers