

## COURSE OUTLINE

### (1) GENERAL

<b>SCHOOL</b>	HUMANITIES		
<b>ACADEMIC UNIT</b>	DEPARTMENT OF MEDITERRANEAN STUDIES		
<b>LEVEL OF STUDIES</b>	UNDERGRADUATE		
<b>COURSE CODE</b>	KYE-08	<b>SEMESTER</b>	1
<b>COURSE TITLE</b>	INTRODUCTION TO STATISTICS FOR HUMANITIES		
<b>INDEPENDENT TEACHING ACTIVITIES</b> <i>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</i>	<b>WEEKLY TEACHING HOURS</b>	<b>CREDITS</b>	
	3	5	
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
<b>COURSE TYPE</b> <i>general background, special background, specialised general knowledge, skills development</i>	General background		
<b>PREREQUISITE COURSES:</b>	No		
<b>LANGUAGE OF INSTRUCTION and EXAMINATIONS:</b>	Greek. In the case of ERASMUS students, Greek & English		
<b>IS THE COURSE OFFERED TO ERASMUS STUDENTS</b>	Yes		
<b>COURSE WEBSITE (URL)</b>	<a href="http://dms.aegean.gr/en/undergraduate-studies/program-of-studies-2019-20/">http://dms.aegean.gr/en/undergraduate-studies/program-of-studies-2019-20/</a>		

### (2) LEARNING OUTCOMES

<p><b>Learning outcomes</b>  <i>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.</i></p> <p><i>Consult Appendix A</i></p> <ul style="list-style-type: none"> <li>• <i>Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</i></li> <li>• <i>Descriptors for Levels 6, 7 &amp; 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</i></li> <li>• <i>Guidelines for writing Learning Outcomes</i></li> </ul> <p>After the successful completeness of the course, students should be able to:</p> <ul style="list-style-type: none"> <li>- understand the need of Statistics for Humanities Studies</li> <li>- recognise the difference between Descriptive Statistics and Inferential Statistics</li> <li>- organise data in the form of tables, graphs, charts</li> </ul>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

- perceive various graphical methods as well as measures of central tendency and variability
- apply graphical methods and numerical methods to deal with specific problems
- design a scatter diagram
- know what linear regression and linear correlation are
- estimate the regression line using the least squares method (least squares regression line)
- calculate the standard error of the estimate and the variance of the error
- apply the linear correlation coefficient
- assess results
- deal with issues and problems in a formal, algorithmic way.

### 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?*

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

- Search for, analysis and synthesis of data and information, with the use of the necessary technology
- Adapting to new situations
- Working independently

### (3) SYLLABUS

- Descriptive and Inferential Statistics
- Descriptive Statistics:
  - Graphical Methods (Pie Chart, Bar Graph, Histogram)
  - Measures of Central Tendency (Mean, Median, Mode) for both Ungrouped and Grouped Data
  - Variability Measures (Range, Percentiles, Quartiles, Interquartile Range, Variance, Standard Deviation) for both Ungrouped and Grouped Data
- Inferential Statistics:
  - Linear Regression
  - Scatter Diagram
  - Regression Line
  - Least Squares method for the estimation of the Regression Line
  - Variance of the error – Standard Error of the Estimate
  - Linear Correlation
  - Linear Correlation Coefficient

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

<b>DELIVERY</b>	Face-to-face
-----------------	--------------

<i>Face-to-face, Distance learning, etc.</i>															
<b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b> <i>Use of ICT in teaching, laboratory education, communication with students</i>	Use of e-class platform. Use of email for personal communication with students.														
<b>TEACHING METHODS</b> <i>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.</i>  <i>The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</i>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><i>Activity</i></th> <th style="text-align: center;"><i>Semester workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td style="text-align: center;">39 hrs (1.56 ECTS)</td> </tr> <tr> <td>Personal study/ Assignment</td> <td style="text-align: center;">83 hrs (3.32 ECTS)</td> </tr> <tr> <td>Final examination</td> <td style="text-align: center;">3 hrs (0.12 ECTS)</td> </tr> <tr> <td style="text-align: center;">Course total</td> <td style="text-align: center;">125 hrs (5 ECTS)</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester workload</i>	Lectures	39 hrs (1.56 ECTS)	Personal study/ Assignment	83 hrs (3.32 ECTS)	Final examination	3 hrs (0.12 ECTS)	Course total	125 hrs (5 ECTS)				
<i>Activity</i>	<i>Semester workload</i>														
Lectures	39 hrs (1.56 ECTS)														
Personal study/ Assignment	83 hrs (3.32 ECTS)														
Final examination	3 hrs (0.12 ECTS)														
Course total	125 hrs (5 ECTS)														
<b>STUDENT PERFORMANCE EVALUATION</b> <i>Description of the evaluation procedure</i>  <i>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</i>  <i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i>	Language of evaluation: Greek. In case of ERASMUS students: Greek & English  Method of evaluation: - end of semester exam: problem solving  Method of evaluation is given in class and on e-class														

#### (5) ATTACHED BIBLIOGRAPHY

##### Greek language

Ζαχαροπούλου, Χ. (2012) *Στατιστική: μέθοδοι – εφαρμογές*. Θεσσαλονίκη: σοφία.  
Καλαματιανού, Α. Γ. (2003) *Κοινωνική στατιστική: Μέθοδοι μονοδιάστατης ανάλυσης*.

Αθήνα: Παπαζήση.

Κατσίλλης, Ι. Μ. (2005) *Περιγραφική Στατιστική*. Αθήνα: Gutenberg.

Κουνιάς, Σ., Κολυβά-Μαχαίρα, Φ., Μπαγιάτης, Κ., Μπόρα-Σέντα Ε. (2006) *Εισαγωγή στη Στατιστική*. Θεσσαλονίκη: Χριστοδουλίδης.

Παπαδημητρίου, Γ. (2005α) *Περιγραφική Στατιστική*. Αθήνα: Τυπωθήτω – Γιώργος Δαρδάνος.

Παπαδημητρίου, Γ. (2005β) *Στατιστική – Τεύχος 2, Επαγωγική Στατιστική*. Αθήνα: Τυπωθήτω – Γιώργος Δαρδάνος.

Ρούσσο, Π. Λ., Τσαούσης, Γ. (2002) *Στατιστική εφαρμοσμένη στις κοινωνικές επιστήμες*. Αθήνα: Ελληνικά Γράμματα.

### **Foreign language**

Diamond, I. & Jefferies, J. (2006) *Αρχίζοντας τη Στατιστική – Μια Εισαγωγή για τους Κοινωνικούς Επιστήμονες*. Αθήνα: Παπαζήση

Canning, J. (2014) *Statistics for the Humanities*. Brighton: John Canning, @statistics4hums  
<http://www.statisticsforhumanities.net/book/wp-content/uploads/2014/07/StatisticsforHumanities%205Sept14.pdf>

### **Related academic journals**

World Journal of Social Sciences and Humanities Statistics  
Research Data Journal for the Humanities and Social Sciences  
International Journal of Humanities and Arts Computing