

MODULE SPECIFICATION

(1) GENERAL

SCHOOL	SCHOOL OF BUSINESS ADMINISTRATION		
DEPARTMENT	ACCOUNTING AND FINANCE		
LEVEL OF STUDY	UNDERGRADUATE		
MODULE CODE	BAF009	SEMESTER	2nd
MODULE TITLE	STATISTICS		
INDEPENDENT TEACHING ACTIVITIES <i>If credits are awarded on separate module components break-down the hours of teaching activity per component, e.g. lectures, laboratory exercises, etc. If the credits are awarded on the entire module, provide the weekly teaching hours and the total credits</i>		TOTAL TEACHING HOURS	ECTS CREDITS
Lectures, In-class exercises, Case studies		39	6
<i>Add rows as required. The organization of teaching and the teaching methods used are described in detail in (5).</i>			
MODULE TYPE <i>General background, special background, specialization, general knowledge, skills development</i>	General background		
PREREQUISITES:	None		
TEACHING AND ASSESSMENT LANGUAGE:	English		
THE COURSE IS AVAILABLE TO ERASMUS STUDENTS	YES		
COURSE WEBPAGE	Please visit https://openeclass.uom.gr/		

(2) SHORT DESCRIPTION

The module provides an introduction to the interpretation and analysis of data through the application of appropriate statistical methodologies. On completion of the module students will have an understanding of descriptive statistics, probability, random variables, discrete and continuous distributions, sampling, estimation and hypothesis testing. Case studies will be used to support learning.

(3) LEARNING OUTCOMES

<p>Learning Outcomes <i>The learning outcomes of the course are described, the specific knowledge, as well as the skills and abilities that students will acquire after the successful completion of the course at the appropriate level. Consult Appendix A</i></p> <ul style="list-style-type: none"> ■ Description of the Level of Learning Outcomes for each study cycle according to the European Higher Education Area Qualifications Framework (QF-EHEA) ■ Descriptors of Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Annex B ■ Summary Guide for writing Learning Outcomes 			
<p>After successful completion of the course, students will be able to:</p> <ol style="list-style-type: none"> 1. Organise, describe and summarise data 2. Understand probability theory and probability distributions 3. Understand the principles of sampling theory 4. Apply hypothesis testing and interval estimation to sample data 			
<p>General Competencies <i>Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), chose the ones that the course is aiming at.</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <ul style="list-style-type: none"> 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 </td> <td style="width: 50%; border: none;"> <ul style="list-style-type: none"> 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 </td> </tr> </table>		<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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
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<p>Students are expected to acquire the following general competencies</p> <ul style="list-style-type: none"> • Employ a range of data resources • Demonstrate adequate self-management, learning, communication, and problem-solving skills 			

- Decision-making
- Working independently

(4) MODULE OUTLINE

The indicative module outline is as follows:

- Descriptive statistics
- Introduction to probability and combinations
- Discrete probability distributions
- Continuous probability distributions
- Sampling and estimation
- Confidence Intervals
- Hypothesis Testing
- Covariance and Correlation

(5) TEACHING AND LEARNING METHODS - ASSESSMENT

DELIVERY MODE <i>Face-to-face, Distance Learning,</i>	Face-to-face, Distance learning																									
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i>	<ul style="list-style-type: none"> • Communication and content sharing via Open E-Class • Use of general software (e.g. Microsoft Office suite) 																									
TEACHING <i>The way and methods of teaching are described in detail.</i> <i>Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliography Study & Analysis, Tutorial, Practice (Placement), Clinical Practice, Artistic Workshop, Interactive teaching, Educational visits, Project preparation, Writing of work / assignments, Artistic creation, etc.</i> <i>Indicate the student's study hours for each learning activity as well as the hours of self-study in accordance with ECTS principles.</i>	<table border="1"> <thead> <tr> <th data-bbox="552 902 946 965">Activity</th> <th data-bbox="946 902 1307 965">Semester Workload [1 ECTS = 28 hours]</th> </tr> </thead> <tbody> <tr> <td data-bbox="552 965 946 999">Lectures</td> <td data-bbox="946 965 1307 999">26 hours</td> </tr> <tr> <td data-bbox="552 999 946 1032">Tutorials / Seminars</td> <td data-bbox="946 999 1307 1032">13 hours</td> </tr> <tr> <td data-bbox="552 1032 946 1066">Laboratory / Clinical Practice</td> <td data-bbox="946 1032 1307 1066"></td> </tr> <tr> <td data-bbox="552 1066 946 1099">Coursework preparation</td> <td data-bbox="946 1066 1307 1099"></td> </tr> <tr> <td data-bbox="552 1099 946 1133">Bibliographic research</td> <td data-bbox="946 1099 1307 1133">9 hours</td> </tr> <tr> <td data-bbox="552 1133 946 1167">Field trips / field work</td> <td data-bbox="946 1133 1307 1167"></td> </tr> <tr> <td data-bbox="552 1167 946 1200">Practice / placement</td> <td data-bbox="946 1167 1307 1200"></td> </tr> <tr> <td data-bbox="552 1200 946 1234">Self-study</td> <td data-bbox="946 1200 1307 1234">120 hours</td> </tr> <tr> <td data-bbox="552 1234 946 1267"></td> <td data-bbox="946 1234 1307 1267"></td> </tr> <tr> <td data-bbox="552 1267 946 1301"></td> <td data-bbox="946 1267 1307 1301"></td> </tr> <tr> <td data-bbox="552 1301 946 1328">Total</td> <td data-bbox="946 1301 1307 1328">168 hours</td> </tr> </tbody> </table>	Activity	Semester Workload [1 ECTS = 28 hours]	Lectures	26 hours	Tutorials / Seminars	13 hours	Laboratory / Clinical Practice		Coursework preparation		Bibliographic research	9 hours	Field trips / field work		Practice / placement		Self-study	120 hours					Total	168 hours	
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ASSESSMENT <i>Description of the assessment process</i> <i>Assessment Language, Assessment Methods, Formative or Summative, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Report/Report, Oral Examination, Public Presentation, Laboratory Paper, Clinical Patient Examination, Artistic Interpretation, Other/Other</i> <i>Explicitly defined assessment criteria and if and where they are accessible by students are mentioned.</i>	<p>The module assessment language is in English and students are expected to exhibit the required level of proficiency.</p> <p>The assessment of the course consists of:</p> <ul style="list-style-type: none"> • Mid-term examination (30% multiple choice questions) • Final examination (70% problem solving) <p>The evaluation criteria across modes of assessment include the following:</p> <ul style="list-style-type: none"> • Demonstration of key knowledge related to the content of course • Demonstration of an ability to apply the knowledge in a given problem or case study • Critical ability evident in applying appropriate methods/knowledge in a given case and/or developing theory-based and literature based arguments. • Structure and presentation • Use of English language <p>More detailed assessment criteria will be provided to you in the module handbook document or posted on the course webpage, if deemed necessary.</p>																									

(6) SUGGESTED BIBLIOGRAPHY

Anderson, D.R., Sweeney, D.J., Williams, T.A., Freeman, J., & Shoemith, E. (2014). Statistics for Business and Economics. 5th edition, Cengage Learning.

Barrow, M. (2017) Statistics for Economics, Accounting and Business Studies. 7th edition, Pearson.

Newbold, P., Carlson, W.L., & Thorne, B. (2020). Statistics for business and economics. 9th edition, Pearson.

Other library sources, including journal articles accessible through the Library, as assigned by the instructor.