COURSE OUTLINE

1. GENERAL INFORMATION

FACULTY	ECONOMY AND MANAGEMENT		
DEPARTMENT	ORGANIZATIONS MANAGEMENT, MARKETING AND TOURISM		
LEVEL OF STUDY	UNDERGRADUATE		
COURSE CODE	1605-230204	**SEMESTER**	2nd
TITLE	Statistics		
Autonomous Teaching Activities		**WEEKLY TEACHING HOURS**	**CREDITS**
Lectures and practical exercises		3	5
COURSE TYPE	GENERAL BACKGROUND		
PREREQUISITE COURSES	NONE		
TEACHING LANGUAGE	GREEK AND ENGLISH (ERASMUS STUDENTS)		
COURSE OFFERED TO ERASMUS STUDENTS	YES		
COURSE WEBPAGE (URL)			

2. LEARNING OUTCOMES

Learning outcomes
Upon completion of the course the student will be able to: 1. Knowledge: To conceive the basic concepts of statistics and probabilities. 2. Understanding: To understand the use of statistical methods in economy and business. 3. Application: To estimate and draw conclusions based on information derived from economic data. 4. Analysis: To combine steps and design solutions to complex problems. 5. Composition: To explain analysis results and propose decisions. 6. Evaluation: To evaluate the results of statistical analysis methods and to conclude regarding their correctness and applicability.
General Skills
• Search, analysis and synthesis of data and information, using the necessary technologies • Adaptation to new situations • Decision making • Project design and management • Production of new research ideas

3. COURSE CONTENT

1. Introduction to Statistics
2. Descriptive statistics (organizing of statistical data, frequencies and graphs)
3. Measures of position and variance
4.Elements of probability theory
5. Random variables and probability distributions
6. Basic probability distributions
7. Solving problems using the Normal distribution
8. Sampling and sampling distributions
9. Parameter estimation and confidence intervals
10. Hypothesis testing 1
11. Hypothesis testing 2
12. Correlation
13. Regression

4. TEACHING AND LEARNING METHODS - ASSESSMENT

<table>
<tr><td>TEACHING METHOD</td><td>Theory lectures and excecises Face to Face</td></tr>
<tr><td>ICT USE</td><td>Electronic presentations.
Use of statistical analysis software.
Use of e-learning platform for distributing learning material and asynchronous learning</td></tr>
<tr><td>TEACHING ORGANIZATION</td><td>
<table>
<tr><th>Activities</th><th>Working Load per Semester</th></tr>
<tr><td>Lectures</td><td>26</td></tr>
<tr><td>Practical exercises</td><td>13</td></tr>
<tr><td>Exercise solving</td><td>41</td></tr>
<tr><td>Study</td><td>15</td></tr>
<tr><td>Self-study</td><td>70</td></tr>
<tr><td>Total</td><td>150</td></tr>
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<tr><td>ASSESSMENT</td><td>• Written final exam (100%)</td></tr>
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5. REFERENCES

Suggested bibliography:

- Statistical thinking in business, Aczel Amir, Broken Hill (GR)
- Business statistics and applications in SPSS and LISREL, Dimitriadis Efstathios, Kritiki publications
- Business statistics, Karapistolis Dimitrios, Altitzis publications.
- Statistics for economy and business managements, Gerald Keller, Epikentro.