

COURSE OUTLINE

(1) GENERAL

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| SCHOOL | Faculty of Social, Political and Economic Sciences | | |
| ACADEMIC UNIT | Department of Economics | | |
| LEVEL OF STUDIES | Undergraduate | | |
| COURSE CODE | NK32 | SEMESTER | 3rd |
| COURSE TITLE | Statistics II | | |
| INDEPENDENT TEACHING ACTIVITIES | | WEEKLY TEACHING HOURS | CREDITS |
| | | 4 | 6 |
| COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i> | Core | | |
| PREREQUISITE COURSES: | - | | |
| LANGUAGE OF INSTRUCTION and EXAMINATIONS: | HELLENIC | | |
| IS THE COURSE OFFERED TO ERASMUS STUDENTS | YES (ESSAY IN ENGLISH) | | |
| COURSE WEBSITE (URL) | http://www.econ.duth.gr/undergraduate/lessons/c1.shtml | | |

(2) LEARNING OUTCOMES

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| Learning outcomes |
| The course's objective is the learning and use of basic statistical inference tools. |
| <p>Correlation of the course with the Department's subject</p> <p>The Department of Economics aims to study and promote economic science. It offers all those theoretical and quantitative tools that allow the understanding of the economic environment based on two axes: The first concerns the operation of the financial system and therefore monitors the development of economic theories and models. The second is the scientifically correct positions and proposals for achieving certain objectives regarding the equitable and efficient organization of the economic system. This is directly related to the knowledge of statistical inference methodologies, thus supporting inference about a population's properties and presenting relevant data samples. This course will develop students' skills to solve problems, to use and process quantitative data and their analytical and inductive thinking ability.</p> |
| General Competences |
| <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 • Production of free, creative and inductive thinking |

(3) SYLLABUS

- Estimation
- Confidence Intervals
- Hypothesis Testing
- Simple Linear Regression
- Analysis of Variance
- Elements of nonparametric statistics

(4) TEACHING and LEARNING METHODS - EVALUATION

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| DELIVERY | Face-to-face lectures | |
| USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY | Utilization of eclass.duth.gr | |
| TEACHING METHODS | <i>Activity</i> | <i>Semester workload</i> |
| | Lectures | 52 hours |
| | Study | 98 hours |
| | Course total | 150 hours |
| STUDENT PERFORMANCE EVALUATION | WRITTEN EXAMS AT THE END OF THE SEMESTER | |

(5) ATTACHED BIBLIOGRAPHY

1. Στατιστική για οικονομικά και διοίκηση επιχειρήσεων, G. Keller, 2010. ΕΚΔΟΣΕΙΣ ΕΠΙΚΕΝΤΡΟ Α.Ε.
2. Στατιστική σκέψη στον κόσμο των επιχειρήσεων, A. Aczel, J. Sounderpandian, 2011. BROKEN HILL PUBLISHERS LTD.
3. Στατιστικοί μέθοδοι Ανάλυσης για Επιχειρηματικές Αποφάσεις, Ι. Χαλικιάς, 2009. ROSILI ΕΜΠΟΡΙΚΗ - ΕΚΔΟΤΙΚΗ Μ.ΕΠΕ
4. Στατιστική με εφαρμογές στα Οικονομικά, Ε. Τσιώνας, 2009. ΕΤΑΙΡΕΙΑ ΑΞΙΟΠΟΙΗΣΗΣ ΚΑΙ ΔΙΑΧΕΙΡΙΣΗΣ ΤΗΣ ΠΕΡΙΟΥΣΙΑΣ ΤΟΥ ΟΙΚΟΝΟΜΙΚΟΥ ΠΑΝΕΠΙΣΤΗΜΙΟΥ ΑΘΗΝΩΝ ΑΕ.