COURSE OUTLINE

(1) GENERAL

SCHOOL	Faculty of Social, Political and Economic Sciences		
ACADEMIC UNIT	Department of Economics		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	NK22	SEMESTER	2nd
COURSE TITLE	Statistics I		

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
	4	6
Add rows if necessary. 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*	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/b3.shtml

(2) LEARNING OUTCOMES

Learning outcomes
The course is to understand the basic concepts of Probabilities, the most important distributions of random variables and their parameters and the use of basic descriptive statistics tools. **Correlation of the course with the Department's subject** 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 probability and descriptive statistics 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.
General Competences

- 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

Elements of combinatorics theory
Basic Probability concepts
Probability distributions of random variables - Random variables probability distribution parameters
Special discrete distributions
Special continuous distributions
Probability distributions of multidimensional random variables
Convergence of sequences of random variables
Descriptive statistics

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face-to-face lectures
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	Utilization of eclass.duth.gr
TEACHING METHODS	*Activity* / *Semester workload* 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	ΣΤΑΤΙΣΤΙΚΗ ΓΙΑ ΟΙΚΟΝΟΜΙΑ ΚΑΙ ΔΙΟΙΚΗΣΗ ΕΠΙΧΕΙΡΗΣΕΩΝ	GERALD KELLER	ΕΠΙΚΕΝΤΡΟ Α.Ε.	2010
2	ΣΤΑΤΙΣΤΙΚΗ ΤΟΜΟΣ Α΄ ΜΕΘΟΔΟΙ-ΕΦΑΡΜΟΓΕΣ	ΧΡΥΣΟΥΛΑ ΖΑΧΑΡΟΠΟΥΛΟΥ	ΣΟΦΙΑ Α.Ε.Ε.Ε.	2012
3	ΣΤΑΤΙΣΤΙΚΗ ΤΩΝ ΕΠΙΧΕΙΡΗΣΕΩΝ	Douglas Downing, Jeffrey Clark	ΚΛΕΙΔΑΡΙΘΜΟΣ ΕΠΕ	2010
4	ΣΤΑΤΙΣΤΙΚΗ ΓΙΑ ΟΙΚΟΝΟΜΟΛΟΓΟΥΣ	ΔΗΜΗΤΡΗΣ ΧΑΤΖΗΝΙΚΟΛΑΟΥ	ΚΙΟΡΟΓΛΟΥ ΛΑΜΠΡΙΝΗ	2002