COURSE OUTLINE

(1) GENERAL

SCHOOL	SCHC	וח חו	INFORMAT	ION SCIENCES &	TECHNOLOGY
ACADEMIC UNIT	SCHOOL OF INFORMATION SCIENCES & TECHNOLOGY DEPARTMENT OF STATISTICS				
LEVEL OF STUDIES	1st Cycle (UNDERGRADUATE)				
COURSE CODE		6110-45 SEMESTER 3 rd			
COURSE TITLE			DID. DI ENDE		
	ERASMUS BIP: BLENDED MOBILITY FOR STUDIES				
INDEPENDENT TEACHING ACTIVITIE	S V		TEACHING OURS	CR	EDITS
Lecture	es				ng on the length Host University
Workshop	os				
Lal	os				
COURSE TYPE	Elect	ive			
PREREQUISITE COURSES:	The student has the right to participate in the program only once (1) during his/her studies. Students are eligible for participating in the program: 1. At least in the second year of studies 2. Have accumulated at least, at the time of their application, 60 credits (ECTS), including courses from the 1st year of studies. 3. Have a good knowledge of the language of the Host Institution (level B2)				
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Engli	sh			
IS THE COURSE OFFERED TO					
ERASMUS STUDENTS					
COURSE WEBSITE (URL)	https	://ww	w.dept.auek	o.gr/en/stat/cor	ntent/erasmus-
	bip-n	nixed-	mobility-stud	dies-3-6-ects	

(2) LEARNING OUTCOMES

Learning outcomes

Students will be able to:

- Understand basic concepts of Statistical Inference and its practical applications.
- Analyze data using statistical techniques.
- Develop and evaluate statistical models.
- Apply statistical techniques to solve real problems.
- Use statistical packages and software.
- communicate their results in a clear and easily understandable manner.

General Competences

- Adaptation to new situations
- Decision-making

- Independent work
- Teamwork
- Working in an international environment
- Generation of new research ideas
- Critical and self-critical thinking
- Promotion of free, creative, and inductive thinking

(3) SYLLABUS

Statistical models, Inference and Statistical Learning, Estimating the cumulative distribution function, Bootstrap, Parametric Statistical Inference, Hypothesis testing and p-values, Linear and Lositsic Regression, Choosing and evaluating the optimal model, Time Series analysis.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY Face-to-face, Distance learning, etc.	University, as described in t	sits in person in the Host he signed Multilateral Inter- between the Universities
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	YES	
TEACHING METHODS	Activity	Semester workload
	Course total	

(5) ATTACHED BIBLIOGRAPHY

- Larry Wasserman (2003). All of Statistics A Concise Course in Statistical Inference.
 Springer New York, NY
- Trevor Hastie, Robert Tibshirani, Jerome Friedman (2009) The Elements of Statistical Learning - Data Mining, Inference, and Prediction, Second Edition. Springer New York, NY