COURSE OUTLINE

(1) GENERAL

SCHOOL	SCHOOL OF SOCIAL SCIENCES, HUMANITIES AND ARTS
ACADEMIC UNIT	Department of International and European Studies
LEVEL OF STUDIES	Post-graduate
COURSE CODE	**SST102** **SEMESTER** B'
COURSE TITLE	Quantitative Methods in Shipping and Sea Transportation Economics

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	CREDITS
	3	7,5

COURSE TYPE	COMPULSORY
PREREQUISITE COURSES:	NO
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	ENGLISH
IS THE COURSE OFFERED TO ERASMUS STUDENTS	NO
COURSE WEBSITE (URL)	https://openeclass.uom.gr/courses/SST109/

(2) LEARNING OUTCOMES

Learning outcomes
This course covers essential concepts, tools and methods of statistics and econometrics. The main topics include descriptive and inferential statistics, as well as simple and multiple regression analysis, time series analysis, and forecasting methods. This course will emphasize on how these analytical tools can be applied in economic and financial data relating to the transportation and shipping industries.
General Competences
- Search for, analysis and synthesis of data and information, with the use of the necessary technology   - Decision-making   - Working independently   - Team work   - Production of free, creative and inductive thinking

(3) SYLLABUS

The course covers a variety of topics, such as: - descriptive statistics,   - modeling and hypothesis testing,   - deterministic correlation methods,   - simple and multiple linear regression models,   - prediction models,   - logit-probit models,   - ARMA models,   - data analysis with SPSS.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY *Face-to-face, Distance learning, etc.*	Face to face
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	• Use of the open eClass online platform • Power points and other training materials • Gretl, SPSS, Excel, email.

TEACHING METHODS	Activity	Semester workload
	LECTURES	30
	AUTONOMOUS STUDY	180
	TOTAL COURSE	210

STUDENT PERFORMANCE EVALUATION	Take-home essays, in-class tests (all in English).

(5) ATTACHED BIBLIOGRAPHY

- Analysis of Economic Data, Gary Koop, 2013, Wiley.
- Analysis of Financial Data, Gary Koop, 2006, Wiley.
- Introduction to Econometrics, James H. Stock, Mark W. Watson, 2008, Pearson/Addison-Wesley.