COURSE OUTLINE

(1) General information

FACULTY/SCHOOL	Maritime and Industrial Studies		
DEPARTMENT	Maritime Studies		
LEVEL OF STUDY	Undergraduate		
COURSE UNIT CODE	NA363	**SEMESTER**	3rd Semester
COURSE TITLE	Transport Economics		
INSTRUCTOR'S NAME	Assistant Professor Konstantinos D. Melas		

INDEPENDENT TEACHING ACTIVITIES *in case credits are awarded for separate components/parts of the course, e.g. in lectures, laboratory exercises, etc. If credits are awarded for the entire course, give the weekly teaching hours and the total credits*	**WEEKLY TEACHING HOURS**	**CREDITS**
Lectures and coursework	4	6
Add rows if necessary. The organization of teaching and the teaching methods used are described in detail under section 4		

COURSE TYPE *Background knowledge, Scientific expertise, General Knowledge, Skills Development*	General Knowledge
PREREQUISITE COURSES:	None
LANGUAGE OF INSTRUCTION:	Greek
LANGUAGE OF EXAMINATION/ASSESSMENT:	Greek
THE COURSE IS OFFERED TO ERASMUS STUDENTS	NO
COURSE WEBSITE (URL)	https://eclass.unipi.gr/courses/NAS512/

(2) LEARNING OUTCOMES

Learning Outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate (certain) level, which students will acquire upon successful completion of the course, are described in detail.

It is necessary to consult:

APPENDIX A

- *Description of the level of learning outcomes for each level of study, in accordance with the European Higher Education Qualifications' Framework.*
- *Descriptive indicators for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and*

APPENDIX B

- *Guidelines for writing Learning Outcomes*

Upon successful completion of this course, students will be able to:

- Understand the basic characteristics and principles governing the economic analysis

of the transport sector. - Analyze the demand and supply of transport services and the factors affecting them. - Determine and calculate the production and operating costs of transport services. - Distinguish between types of costs: private, social, and external. - Interpret pricing policies and measures for the internalization of external costs. - Apply investment evaluation methods (cost-benefit analysis, multicriteria analysis). - Understand the importance of intermodal transport and the contribution of short sea shipping. - Recognize the contribution of transport to economic development and to transport policy formulation.
General Competences *Taking into consideration the general competences that students/graduates must acquire (as those are described in the Diploma Supplement and are mentioned below), at which of the following does the course attendance aim?* *Search for, analysis and synthesis of data and information by the use of appropriate technologies,* *Adapting to new situations* *Decision-making* *Individual/Independent work* *Group/Team work* *Working in an international environment* *Working in an interdisciplinary environment* *Introduction of innovative research* *Project planning and management* *Respect for diversity and multiculturalism* *Environmental awareness* *Social, professional and ethical responsibility and sensitivity to gender issues* *Critical thinking* *Development of free, creative and inductive thinking* *……* *(Other…….citizenship, spiritual freedom, social awareness, altruism etc.)* *…….*
The course contributes to the development of the following general competences: - Search, analysis, and synthesis of data and information using appropriate technologies. - Adaptation to new situations and decision-making. - Independent and group work. - Work in international and interdisciplinary environments. - Production of new research ideas and application of economic concepts to real transport problems. - Development of free, creative, and inductive thinking.

(3) COURSE CONTENT

• Introduction to transport economics and key characteristics of the sector • Demand and supply for transport services – determining factors • Elasticities of demand and supply in transport • Private and social cost – external economies and negative externalities • Pricing and regulatory policies in the transport sector • Internalization of external costs and environmental impacts • Investment evaluation methods (cost-benefit analysis, multicriteria analysis) • The role of the state and transport policy in the European Union • Intermodal transport and logistics • Economics of short sea shipping and coastal shipping

(4) TEACHING METHODS--ASSESSMENT

MODES OF DELIVERY *Face-to-face, in-class lecturing, distance teaching and distance learning etc.*	Face-to-face and provision for synchronous distance learning in cases of force majeure and/or extraordinary circumstances (as per Law 4957/2022, A76, Par. E)
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY *Use of ICT in teaching, Laboratory Education, Communication with students*	▪ Asynchronous e-class learning platform ▪ Notes in pdf ▪ PowerPoint presentations ▪ Organization of in-depth courses and tutorial exercises via MS Teams ▪ Guest lectures using MS Teams
COURSE DESIGN *Description of teaching techniques, practices and methods:* *Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, Internship, Art Workshop, Interactive teaching, Educational visits, projects, Essay writing, Artistic creativity, etc.* *The study hours for each learning activity as well as the hours of self-directed study are given following the principles of the ECTS.*	(see workload table below)
STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS *Detailed description of the evaluation procedures:* *Language of evaluation, assessment methods, formative or summative (conclusive), multiple choice tests, short- answer questions, open-ended questions, problem solving, written work, essay/report, oral exam, presentation, laboratory work, other……etc.* *Specifically defined evaluation criteria are stated, as well as if and where they are accessible by the students.*	Evaluation method: • Final written examination (100%) • Weekly quizzes via Wooclap (bonus of 0.5 points for top performers) Assessment is based on understanding of theory and its application to practical examples.

Activity/Method	Semester workload
Lectures	48
Tutorials	24
Solving exercises and writing assignments	30
Self-guided study	48
Total	**150**

(5) SUGGESTED BIBLIOGRAPHY:

Textbooks

- Sambrakos E. (2018). Introduction to Transport Economics. Private Edition.
- Profyllidis V. (2016). Transport Economics. Papasotiriou Publications.
- Button, K. (2010). Transport Economics. Edward Elgar.
- Lecturer’s notes.

Relevant scientific journals:

- Transportation Research Part E: Logistics and Transportation Review
- Research in Transportation Economics
- Journal of Transport Economics and Policy
- Economics of Transportation