COURSE OUTLINE

1. GENERAL

SCHOOL	APPLIED ECONOMIC AND SOCIAL SCIENCES		
ACADEMIC UNIT	AGRIBUSINESS AND SUPPLY CHAIN MANAGEMENT		
LEVEL OF STUDIES	*Undergraduate*		
COURSE CODE	**5702**	**SEMESTER**	7th
COURSE TITLE	TRANSPORTATION AND DISTRIBUTION SYSTEMS		

INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**CREDITS**
Lectures	2	5
Laboratory exercises	2	

COURSE TYPE	Special Background-Skills Development
PREREQUISITE COURSES	NO
LANGUAGE OF INSTRUCTION and EXAMINATIONS	Greek
IS THE COURSE OFFERED for ERASMUS STUDENTS?	YES (in English)
COURSE WEBSITE (URL)	https://oeclass.aua.gr/eclass/

2. LEARNING OUTCOMES

Learning Outcomes

The aim of the course is to:

- focus on the structure and organisation of distribution and transport systems, how they operate, the factors that determine demand for them, as well as the methods of qualitative and quantitative estimation of this demand.
- delve into the design of distribution centres and the scheduling and routing of vehicles.

Upon successful completion of the course, the student will be able to:

- describe the types and characteristics of modes of transport, the role of intermodal transportation and transport infrastructure.
- understand the role and contribution of new technologies, such as telematics, to transport and distribution.
- analyse and evaluate the design and operation requirements of distribution centres.
- support decisions concerning the transportation process.
- compare supply chains to the dimension of the transportation work.

General Competences

- Search for, analysis and synthesis of data and information, with the use of the necessary technology
- Adapting to new situations
- Decision-making
- Working independently
- Teamwork
- Working in an international environment
- Project planning and management
- Advance free, creative and causative thinking

3. SYLLABUS

1. Introduction to basic concepts
2. Institutional and legal framework of operation
3. Analysis of the structure of the system and identification of required infrastructure
4. Modes of transportation and their characteristics
5. Distribution operations in transport
6. Terminals and combined transport
7. Use of new technologies
8. Factors and characteristics of demand
9. Demand forecasting methods and techniques in distribution and transport systems
10. Risk management in transport and distribution systems
11. Optimization methods and techniques
12. Future trends
13. Special topics

A combination of teaching and learning methods will be used, aiming at the active participation of the students and the practical application of the thematic units under examination; there will also be lectures using audiovisual media, discussions, and analyses of case studies on real business issues, experiential (group) activities, as well as projections of relevant videos. Furthermore, articles, audiovisual lecture materials, web links/addresses, useful information, case studies and exercises for further practice are posted in digital form on the AUA Open e-Class platform.

4. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY

Face-to-face, Distance learning

USE OF INFORMATION and COMMUNICATIONS TECHNOLOGY

- Support of the learning process through the University's AUA Open eClass platform (integrated e-Course Management System)
- Support of lectures using presentation software
- Use of audiovisual material
- Use of web applications

Communication with students: face to face at office hours, email, eclass platform

TEACHING METHODS

Activity	*Workload*
Lectures (direct)	39
Laboratory Practice	26
Essay Writing	20
Autonomous study	36
Advisory Support	0,5
Examination	2
Laboratory Examination	2
Total (About 25 hours of study per ECTS)	***125,5***

STUDENT PERFORMANCE EVALUATION

The evaluation process is in the language that the course is taught (Greek or English) and consists of:

i. Compulsory written final examination at the

	end of the semester (weighting factor **70**% at least) which may include: ● Multiple choice questionnaires ● Open-ended questions ● Problem solving ● Oral examination **Evaluation criteria:** correctness, completeness, clarity ii. Compulsory written exam during the semester (weighting factor 30%) **Evaluation criteria:** correctness, completeness, clarity **Special learning difficulties:** Students with **special learning difficulties** in writing and reading (as they are certified and characterized by a competent body) are examined based on the procedure provided by the Department. **Specifically-Defined Criteria:** The evaluation criteria are made known during the first lesson and are clearly stated on the course website and the AUA Open e-class platform. The answers to the exam questions are posted on the AUA Open e-Class platform after the exam. The students are allowed to see their exam paper after its grading (during the announced office hours) and receive explanations about the grade they received.

5. ATTACHED BIBLIOGRAPHY

Suggested Bibliography in Greek Language:

- Cristopher Martin, Logistics και διαχείριση εφοδιαστικής αλυσίδας (2017), Αθήνα: Κριτική
- Προφυλλίδης Β., Οικονομική των μεταφορών, 2025, Εκδόσεις Παπασωτηρίου

Related academic Journals:

- European Transport Research Review
- International Journal of Physical Distribution & Logistics Management
- Logistics & Sustainable Transport

Instructor's Notes