

COURSE OUTLINE

(1) GENERAL

SCHOOL	Faculty of Social, Political and Economic Sciences		
ACADEMIC UNIT	Department of Economics		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE		SEMESTER	5th
COURSE TITLE	Transportation Economics		
INDEPENDENT TEACHING ACTIVITIES <i>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</i>		WEEKLY TEACHING HOURS	CREDITS
Lectures and Individual Assignment		4	6
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	General background		
PREREQUISITE COURSES:	Statistics, Mathematics, Management, Accounting, Macroeconomics, Microeconomics		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes (in English)		
COURSE WEBSITE (URL)	http://www.econ.duth.gr/undergraduate/lessons/e4.shtml		

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*
- *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*
- *Guidelines for writing Learning Outcomes*

The course is an introduction to the transportation sector as part of the network economy. Through a number of case studies, the theory and the key issues are presented on management and business development in transportation industry. Emphasis is given on transportation system operation, evaluation and monitoring of corporate outputs and performance, and assessment of investment plans in transportation infrastructure.

Based on above theoretical framework, the course learning outcomes could be summarized:

- Ability to define the relationship between:
 - Demand-Supply, Production-Consumption
 - Employment-Productivity
 - Pricing-Supply chain performance
- Ability to understand the key parameters for business planning, development and operation of network economy systems, such as:
 - Transport, Energy and Telecommunication
 - Linked economic sectors like tourism, trade, etc.
- Ability to analyze, review and evaluate plans on the base of the international nature of business and the relation between management and economy, for the transportation sector and Supply chain.
- Ability to analyze, review, assess and implement:
 - Development plans in national scale
 - Investment projects
 - Privatization plans

After a successful course, the students should be able to understand and implement the main issues and techniques in network economy framework, such as:

- Estimate, evaluate, review and discuss analysis reports on the base of specific economic concepts applied in inland transportation, sea and water transportation, air transportation and combined transportation, such as Competition-Complementarity, Regulation-Deregulation, Public-Private, Cyclical-Anticyclical, Taxation-Subsidies, Value of Time-Level of Service, Accident Cost-Value of life.
- Review business tasks and illustrate results of supply-demand and inventory-distribution cost, using methodological frameworks and techniques from the fields of statistics, operations research, management, econometrics, macro and micro economy.
- Provide analysis results based on generalized cost, price elasticity, pricing issues, investment appraisal in transportation projects and infrastructure.
- Determine and review the performance of transportation enterprises, private and public investments, in Greek and international market (feasibility studies).
- Analyze the key parameters of a business plan on the base of economic conditions, operational capabilities, competition and regulatory framework in the sector of transportation and supply chain.

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Transport;

<i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i> <i>Adapting to new situations</i> <i>Decision-making</i> <i>Working independently</i> <i>Team work</i> <i>Working in an international environment</i> <i>Working in an interdisciplinary environment</i> <i>Production of new research ideas</i>	<i>Project planning and management</i> <i>Respect for difference and multiculturalism</i> <i>Respect for the natural environment</i> <i>Showing social, professional and ethical responsibility and sensitivity to gender issues</i> <i>Criticism and self-criticism</i> <i>Production of free, creative and inductive thinking</i> <i>Others...</i>
<ul style="list-style-type: none"> ● Search for, analysis and synthesis of data and information, with the use of the necessary technology. ● Working in an interdisciplinary environment. ● Working independently. ● Production of free, creative and inductive thinking. 	

(3) SYLLABUS

<p>The course syllabus includes:</p> <ol style="list-style-type: none"> i. Structure, operational characteristics and organizational framework in transportation sector. ii. Specific economic concepts applied in inland transportation, sea and water transportation, air transportation and combined transportation, such as Competition-Complementarity, Regulation-Deregulation, Public-Private, Cyclical-Anticyclical, Taxation-Subsidies, Value of Time-Level of Service, Accident Cost-Value of life. iii. Development policies and modern problems in transportation sector on the level of national policy as well as on the level of enterprise. iv. Methods and techniques on Transportation Economics using generalized cost, price elasticity, pricing policy and market accessibility assessment (accessibility, connectivity, spatial economics). v. Analysis of transportation enterprises as well as Private and Public investments. vi. Regulatory framework and Organisations dealing with transportation sector i.e. WTO, EU, 2190/20 Greek law, EU directive 91/440. vii. Key issues and trends in international transportation environment, with emphasis in globalisation, socioeconomic equilibrium, bilateral agreement and international economic relations. viii. Best practices from enterprises, organisations and projects. ix. Case studies and outputs from real world applications.
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(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY <i>Face-to-face, Distance learning, etc.</i>	<ul style="list-style-type: none"> ● Class lectures ● Case studies ● Notes, slides 	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i>	<ul style="list-style-type: none"> ● Presentations ● e-class 	
TEACHING METHODS <i>The manner and methods of teaching are described in detail.</i> <i>Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i>	Activity	Semester workload
	Lectures	50
	Individual assignments and exercises	50
	Individual Study	50

<p>The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</p>		
	Course total	150
<p>STUDENT PERFORMANCE EVALUATION Description of the evaluation procedure</p> <p>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</p> <p>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</p>	<ul style="list-style-type: none"> • Individual assignment during the course (50%) • Final written exams (50%) 	

(5) ATTACHED BIBLIOGRAPHY

- Bibliography:

1. I.K. Μουρμούρης, «Οικονομική των Μεταφορών: Ανάπτυξη, Επένδυση, Διοίκηση και Εφαρμογές», ISBN 9603516716, Εκδόσεις: Α. Σταμούλης, 2006.
2. Β. Προφυλλίδης, «Οικονομική των Μεταφορών», Δ' Αναθεωρημένη έκδοση, ISBN 9789607182166, Εκδόσεις: Παπασωτηρίου.
3. Ε. Σαμπράκος, «Εισαγωγή στην Οικονομική των Μεταφορών», ISBN 9603511366, Εκδόσεις: Α. Σταμούλης, 2001.

- Referred journals:

Transportation Research Procedia
 International Journal of Transport Economics
 Journal of Transport Economics and Policy
 Research in Transportation Economics
 Economics of Transportation
 Transportation Research Part A: Policy and Practice
 Transportation Research Part B: Methodological
 Transportation Research Part E: Logistics and Transportation Review
 Journal of Supply Chain Management
 Journal of air transport management
 Journal of Rail Transport Planning & Management
 Journal of Transport Geography
 Travel Behaviour and Society
 Journal of Operations Management