

COURSE DESCRIPTION

Course Title	PORT AND TERMINAL OPERATIONS AND MANAGEMENT				
Course Code	ATTO301				
Course Type	Compulsory				
Level	BSc (Level 1)				
Year / Semester	3 / Fall				
Teacher's Name	Mrs Stefani Papastylianou / Captain Eugen-Henning Adami				
ECTS	6	Lectures / week	3	Laboratories / week	
Course Purpose	Upon completion of this course, the students are expected to be able to demonstrate an in depth understanding about the role that ports play in the development of shipping and International Trade.				
Learning Outcomes	<p>By the end of the course, students should be able to:</p> <ul style="list-style-type: none"> • Outline the framework of port development in relation to hinterland and local infrastructure. • Demonstrate a spherical understanding of the ways that ports influence the economy of the hinterland they serve. • Explain the degree of port commercialization in relation to different types of port stakeholders. • Analyze the economic consequences to the infrastructure available for different modes of connecting transportation. 				
Prerequisites	ATSS101, ATSG101	Co-requisites			
Course Content	<p>Ports and their Functions:</p> <ul style="list-style-type: none"> • Definitions of terms (Harbour, Port, Dock, Berth, Various types of terminals etc) • What Port means – Legal Definition, Features and Purpose of a Port • Port Infrastructures and main Functions of a Port – Administrative and Operational Functions • The importance of the Location of a Port and its links to Hinterland. • Transshipment Ports – Distribution Centers. <p>Port Organization (Port Management models):</p> <ul style="list-style-type: none"> • What is a Port Authority? • Activities of Port Authorities • Organizational Structure of Port Authorities (Public, Tool, Landlord, Private) • The Port Agent (His role in the Port of Call, Responsibilities) • Agency Appointments (Special & General Agencies) <p>Port Performance</p>				

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- Port/Berth Efficiency & Productivity
- KPI's

Port Management Development

- The Changing role of ports from transport centers to logistic platforms
- The generation of ports and the features which governed the port's development
- Value added services provided by ports as a sustainable competitive advantage

Port Competition

- Features and Elements of Port Competition
- Inter-port Competition
- The benefits of Inter-port competition
- Inter-port Competition – Demand and Supply Side Substitution
- Intra-port Competition
- The benefits of Intra-port Competition
- Intra-port Competition – Demand and Supply Side Substitution

Labor Management and Relations in Ports

- The various persons who are working in Ports
- Dockers/Stevedores and the International Transport Workers Federation (ITF)
- Restrictions to the Port Labour Market and their impact on trade and port competition.
- The ISPS Code

Current Trends in Ports – Current issues in Port Policy

- Operation of biggest ship, connectivity to the hinterland and competition with other ports.
- The fragmentation of port's capacity.
- The Chinese "One Road-One belt Project" and the creation of new Mega Hub Ports.
- The implementation of effective Cybersecurity measures against digital attacks.
- Laws that are enforce in a port
 - Port State Control (PSC)
 - Changes in the Environmental regulations and consequent changes imposed to port operations
 - Green logistics – Green shipping
 - Environmental concerns

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	<ul style="list-style-type: none">➤ Sustainability – Sustainable shipping <p>Factors Affecting Port Development</p> <ul style="list-style-type: none">• Factors pushing the port to change• Difficulties faced for port expansion and change <p>Port Services and Charges</p> <ul style="list-style-type: none">• There are two main categories of port charges: Cargo dues and Vessel dues• Primary services and charges provided in a port• How may port charges be influenced by the intra-port and inter-port competition? <p>Port Ownership</p> <ul style="list-style-type: none">• Types of Port Ownership<ul style="list-style-type: none">○ Public Ownership<ul style="list-style-type: none">➤ Government owned ports➤ Autonomous (Trust) ports➤ Municipal Ports○ Private Ownership<ul style="list-style-type: none">➤ Deregulation of Ports➤ Privatization of Ports➤ Concessions➤ Commercialization➤ BOT <p>Competition Law</p> <ul style="list-style-type: none">• Competition policy• Cartels – Conferences• Abuse of a dominant position• Price fixing• Fair trading• Market segmentation• Mergers & Acquisitions• Monopoly. When are monopolies allowed by the law?• Concession• Anti-competitive agreements• Container line alliances (consortia)
Teaching Methodology	Lectures, discussions, written assignment, presentation of assignment.

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Bibliography	<p>Required textbook:</p> <ul style="list-style-type: none"> • Theo Notteboom, Athanasios Pallis and Jean-Paul Rodrigue Port Economics, Management and Policy, 1st Edition, New York: Routledge, 2022 <p>Further bibliography:</p> <ul style="list-style-type: none"> • P. Alderton, Port Management and Operations, 3rd Edition, Informa, 2008 • Meersman H. et. al, Future Challenges for the Port and Shipping Sector, Informa,2008. • Martin Stopford, Maritime Economics, 3rd Edition, Routledge, 2009. • Branch, A.E., Elements of Shipping, 7th Edition, Routledge 2001. • Institute of Chartered Shipbrokers (ICS), Port and Terminal Management, 2011/2012 Edition. • Song, Dong-Wook, & Panayides, P. Maritime Logistics, A Guide to Contemporary Shipping and Port Management, 2nd Edition, London: Kogan Page, 2015. • Bichou, Khalid. Port operations, Planning and Logistics, 2nd Edition, Informa, 2016.
Assessment	<p>Midterm Assessment _ One Test and a One written assignment & oral presentation of the assignment: 40%</p> <p>Final Exam: 60%</p>
Language	English