

## Module Handbook Port and Terminal Management

Scheme & Program	M.Sc. Shipping Management		
Module Title	Port and Terminal Management		
Module Code			
Module Start Date/ Cohort	2021-22		
Module Level	Level 7	Credit Rating	[5 ECTS credits]
Total study time	27 hours academic directed time 3 hours lecture per week	Hours of independent Learning and time for assessments	125 hours of teaching and independent learning and time for assessments
Module Leader & Lecturer:	Prof. Maria Boile, Prof. E. Papadimitriou		
Email:	<a href="mailto:boile@unipi.gr">boile@unipi.gr</a> , <a href="mailto:stratos@unipi.gr">stratos@unipi.gr</a>		
Room:			
Office Hours:	Please email me for any queries or see me in sessions.		
Seminar Tutor(s):			
Program Director:	Professor Angelos Pantouvakis		
Administrator contact:	Mrs. Maria Varoucha, 2104142504		
Administrator e-mail:	<a href="mailto:shipman@unipi.gr">shipman@unipi.gr</a>		
Lecture day & time:	Tuesdays 18.00-21.00		
Seminar day & time:			

### 1. Welcome Note

Welcome to the Port and Terminal Management module of the University of Piraeus M.Sc. in Shipping Management program. During the course of the 8 weeks of this module you will be instructed on the contemporary management practices in supply chains and ports. Students specializing in shipping management must comprehend the role and the significance of global supply chains and of ports as key value adding elements in the logistics chain; the globalized port service environment (global port and terminal operators); the emerging new business models; and the evolving relationships between the parties involved in the port services market.

### 2. Module aims

The module aims at enhancing students' understanding on the essential elements of maritime logistics and intermodal transport systems, global supply chains and the role of ports, the structure and the evolution of the maritime transport and port industry and the trends affecting this sector. Aspects of port management and ownership models, operations, pricing and competition are covered.

### 3. Learning Outcomes—what you will gain from taking the module:

By the end of this module, students will be able to:

- Understand the role of maritime shipping as facilitator of international trade
- Know the basic definitions of logistics and international logistics and components of international logistics
- Define the role of ports, their features, and the different forms of ownership structure

- Present the interface of ports with hinterland transport and logistics systems
- Describe the role and the position of ports in global supply chains
- Analyze port charges and port competition related issues
- Understand how Incoterms® rules are used to split the responsibilities of the exporter and the responsibilities of the importer.
- Understand the strategic advantages for an exporter of having good document preparation.
- Identify perils of the sea and methods of risk management
- Understand the impact of a major disruption on international trade.

**4. Indicative Module Content:**

- Maritime shipping and international trade
- International Logistics Infrastructure
- Modes of transport and multimodal transportation
- Ports and maritime supply chains
- Port logistics and distribution networks
- Port planning and terminal operations
- Warehouse and distribution center planning and operations
- Port management structures and ownership models
- Port pricing and competition
- Incoterms and Transport Documents
- Risk management and cargo insurance
- Customs clearance
- Safety and security

**5. How the module is taught, attendance and the teaching schedule:**

The module will utilize theoretical lectures, presentation of case studies, scheduled presentations and thematic discussions with the participation of students and invited speakers. All lecture materials, including slides and selected readings, will be available through the University e-class system. Some sessions will include student presentations, based on the analysis of international literature.

**a. Teaching Schedule per every one of the 8 weeks**

Lecture Date	Topic

**Week 1**

**Maritime shipping and international trade**

- Know the basic theories of international trade.
- Know the basic explanations for international trade.
- Have a cursory exposure to the international business environment

**Reading Material:**

- International Logistics: the Management of International Trade Operations, Pierre David, 6th edition
- Professor's notes

**International Logistics Infrastructure**

- Have a basic idea of the recent historical developments in the practice of logistics.
- Recognize the economic impact of international logistics activities.
- Understand the processes of reverse logistics.
- Understand the importance of the infrastructure of a country to an international logistician
- Identify characteristics of international transportation infrastructure.
- Identify characteristics of international communication infrastructure.
- Identify characteristics of international utilities infrastructure.

**Reading Material:**

- International Logistics: the Management of International Trade Operations, Pierre David, 6th edition
- Professor's notes

<p><b>Week 2</b></p>	<p><b>Modes of transport and multimodal transportation</b></p> <ul style="list-style-type: none"> <li>• What is multimodal transport in supply chain management?</li> <li>• The different modes of transportation in a supply chain</li> </ul> <p><b>Reading Material:</b></p> <ul style="list-style-type: none"> <li>• International Logistics: the Management of International Trade Operations, Pierre David, 6th edition</li> <li>• Professor's notes</li> </ul>
<p><b>Week 3</b></p>	<p><b>Ports and maritime supply chains</b></p> <ul style="list-style-type: none"> <li>• Trends and developments in the shipping industry and global supply chains impact on ports</li> <li>• The role of ports in global supply chains</li> <li>• Container shipping industry providing door-to-door services</li> </ul> <p><b>Reading Material:</b></p> <ul style="list-style-type: none"> <li>• Port and Terminal Management, Institute of Chartered Shipbrokers, 2020 Edition</li> <li>• Professor's notes</li> </ul>
<p><b>Week 4</b></p>	<p><b>Port logistics and distribution networks</b></p> <ul style="list-style-type: none"> <li>• Port centric logistics</li> <li>• Regional Distribution Networks</li> <li>• Urban goods movement</li> <li>• Dry ports</li> </ul> <p><b>Reading Material:</b></p> <ul style="list-style-type: none"> <li>• Port and Terminal Management, Institute of Chartered Shipbrokers, 2020 Edition</li> <li>• Professor's notes</li> </ul>

<p><b>Week 5</b></p>	<p><b>Port planning and terminal operations</b></p> <ul style="list-style-type: none"> <li>• Port Planning</li> <li>• Types of terminals (conventional/general cargo – multipurpose, dry bulk, liquid bulk, cruise terminals, terminals serving PCTC, Ro-Ro, RoPax vessels)</li> <li>• Terminal operations – container terminals</li> </ul> <p><b>Reading Material:</b></p> <ul style="list-style-type: none"> <li>• Port and Terminal Management, Institute of Chartered Shipbrokers, 2020 Edition</li> <li>• Professor’s notes</li> </ul> <p><b>Warehouse and distribution center planning and operations</b></p> <ul style="list-style-type: none"> <li>• Warehousing Activities in Supply Chains</li> </ul> <p><b>Reading Material:</b></p> <ul style="list-style-type: none"> <li>• International Logistics: the Management of International Trade Operations, Pierre David, 6th edition</li> <li>• Professor’s notes</li> </ul>
<p><b>Week 6</b></p>	<p><b>Port management structures and ownership models</b></p> <ul style="list-style-type: none"> <li>• Port Functions, Services, Management and Administration Models</li> <li>• Public and Private Roles in Port Management</li> <li>• Vertical and horizontal integration in the liner shipping industry</li> <li>• Global terminal operators</li> </ul> <p><b>Reading Material:</b></p> <ul style="list-style-type: none"> <li>• Port and Terminal Management, Institute of Chartered Shipbrokers, 2020 Edition</li> <li>• Professor’s notes</li> </ul>
<p><b>Week 7</b></p>	<p><b>Port pricing and competition</b></p> <ul style="list-style-type: none"> <li>• Categories and types of port services</li> <li>• Typology and characteristics – port tariffs and port cost analysis</li> <li>• Principles of port pricing</li> <li>• Definition and basic characteristics of port competition – entry barriers, market power</li> </ul> <p><b>Reading Material:</b></p> <ul style="list-style-type: none"> <li>• Port and Terminal Management, Institute of Chartered Shipbrokers, 2020 Edition</li> <li>• Professor’s notes</li> </ul>

<p><b>Week 8</b></p>	<p><b>Incoterms and Transport Documents</b>  <b>Risk management and cargo insurance</b></p> <ul style="list-style-type: none"> <li>• The eleven terms of international trade, or Incoterms® rules and their use for strategic advantage.</li> <li>• Electronic data interchange (EDI)</li> <li>• Alternative terms of payment in international trade.</li> <li>• Advantages/disadvantages of securing payment through cash in advance, through the use of open accounts and through letters of credit.</li> <li>• Various forms of and coverages under marine insurance policies.</li> <li>• Elements and functions of commercial credit insurance.</li> <li>• Nomenclature of international insurance.</li> </ul> <p><b>Reading Material:</b></p> <ul style="list-style-type: none"> <li>• International Logistics: the Management of International Trade Operations, Pierre David, 6th edition</li> <li>• Professor's notes</li> </ul>
<p><b>Week 9</b></p>	<p><b>Customs clearance</b>  <b>Safety and security</b></p> <ul style="list-style-type: none"> <li>• Characteristics of non-tariff barriers to imports.</li> <li>• Functions and requirements of the Customs clearing process.</li> <li>• Functions of Foreign Trade Zones</li> <li>• Security requirements of the IMO and security programs put in place by the European Union and the United States.</li> </ul> <p><b>Reading Material:</b></p> <ul style="list-style-type: none"> <li>• International Logistics: the Management of International Trade Operations, Pierre David, 6th edition</li> <li>• Professor's notes</li> </ul>

## 6. Assessment

The module will be assessed on the basis of two components:

A. group project (40%) – Students will work in groups of 3 or 4 on a topic of their choice. A report will be submitted and a presentation will be made.

B. Written exam (60%) - A written final exam

Assessment Title and Brief Description	Word count/ Hrs where applicable	Weight	Submission deadline	Submission method	Feedback date	How feedback is provided
Group project	-	40%	TBD	Electronic report submission and in class presentation	TBD	-
Written exams	2hrs	60%	TBD	In class	TBD	-

Any changes to the assessment schedule will be communicated by e-mail and/ or announcement on the module's E-class pages.

## 7. Recommended Reading

### Main Textbooks for the Course:

- International Logistics: the Management of International Trade Operations, Pierre David, 6th edition
- Port and Terminal Management, Institute of Chartered Shipbrokers, 2020 Edition

### Additional Course Material:

- Maria Burns, Port Management and Operations. CRC Press. 2015
- Patrick Alderton, Port Management and Operations, 3rd edition, 2008
- Jurgen Bose, Editor, Handbook of Terminal Planning. Springer Science & Business Media, LLC 2011
- Selected scientific articles
- World Bank: Logistics Performance Index
- Articles from Lloyd's List, Trade Winds, academic journals
- Course slides
- Academic Papers