University of Kyrenia

Faculty of Maritime Studies

Maritime Management

Syllabus

Course name: Port Agency							
Code	**Year**	**Semester**	**Credit**	**ECTS**	**Course application, Hour/Week**		
					Theoretical	**Application**	**Laboratory**
MMD300	III	Spring	3	5	3	0	0
Course type: Compulsory				**Prerequisite: x**		**Language:** English	
% Contribution to the Professional Fundamental Component				**Basic Sciences**	**Engineering Science**	**Engineering Design**	**General Education**
				-	-	-	100
Course Venue and Time				Wednesday / 13:30 – 16:20			
Instructor information				**Assist. Prof. Dr. Pınar Sharghi** Faculty of Maritime Studies Wednesday / 09:00 - 12:00 +90 (392) 650 26 00 / 4120 pinar.sharghi@kyrenia.edu.tr www.kyrenia.edu.tr			

Course Description	*Port Agency* provides a comprehensive study of the role, responsibilities, and operational functions of port agents within the maritime industry. The course examines the duties of agents before, during, and after a vessel's call at port, including coordination with port authorities, shipping companies, and other stakeholders. Students will learn about ship types, certificates, charter parties, and shipping documentation, including the preparation of Statements of Facts (SOF) and laytime calculations. The course also covers the legal and regulatory framework governing port operations, including international conventions such as UNCLOS and IMO regulations. Through case studies, practical exercises, and real-world examples, students will gain the knowledge and skills needed to perform port agency functions efficiently and professionally, ensuring smooth maritime operations and compliance with international standards.
Course Aims and Objectives	The primary aim of *Port Agency* is to equip students with the theoretical knowledge and practical skills necessary to perform the duties of a port agent effectively, ensuring smooth and compliant maritime operations. The course emphasizes the integration of operational, legal, and commercial aspects of port agency within the global shipping industry. • Introduce the role, functions, and responsibilities of port agents in maritime operations. • Explain the different types of ships, their certificates, and their operational requirements. • Examine the appointment process and types of port agents, including liner and tramp agents. • Explore the interaction between agents, port authorities, and other stakeholders. • Teach students to manage pre-arrival, in-port, and post-departure duties effectively. • Provide practical knowledge in preparing and interpreting shipping documents, Statements of Facts (SOF), and laytime calculations. • Analyze the agent's responsibilities concerning charter parties, including voyage and time charters. • Familiarize students with international conventions and regulations relevant to port agency, including UNCLOS and IMO conventions. • Develop practical skills in handling cargo operations, Incoterms, and passenger shipping documentation. • Enhance students' ability to apply theoretical knowledge to real-world scenarios through case studies and simulations.
	LO1. Explain the role and functions of port agents within the maritime industry.

Course Learning Outcomes	**LO2.** Identify different ship types, their certificates, and operational requirements. **LO3.** Describe the appointment process, types of agents, and their contractual relationships. **LO4.** Analyze the interaction between agents, port authorities, and other stakeholders. **LO5.** Perform pre-arrival, in-port, and post-departure agent duties effectively. **LO6.** Prepare, interpret, and manage key shipping documents, including Statements of Facts (SOF) and laytime calculations. **LO7.** Apply knowledge of charter parties (voyage and time charters) to agent responsibilities. **LO8.** Explain the role of Incoterms and cargo handling terms in port agency operations. **LO9.** Evaluate the impact of international conventions, such as UNCLOS and IMO regulations, on port agency activities. **LO10.** Apply practical skills to real-world port agency scenarios, ensuring compliance, efficiency, and professional operations.

Content of the Course

Week	*Subject*
1	**Introduction to Port Agency** • Definition and role of port agents • Overview of the shipping industry and vessel types • Introduction to ship certificates and documentation
2	**Ship Types and Characteristics** • Cargo ships, tankers, container ships, bulk carriers, Ro-Ro, passenger ships • Specific operational and commercial characteristics of each ship type • Certification requirements and class societies
3	**Port Agency Functions** • Definition of a port agent • Appointment process of agents • Types of port agents: liner agents, tramp agents, and specialized agents
4	**Agents and Port Authorities** • Role of port authorities in operations • Interaction and coordination between agents and port authorities • Legal and regulatory framework of port operations
5	**Duties of the Agent: Pre-Arrival** • Pre-arrival notifications and documentation • Arrangements for pilotage, tug assistance, berth allocation • Crew and cargo requirements
6	**Duties of the Agent: Arrival and In-Port Operations** • Vessel reception and berthing • Coordination of cargo operations and safety compliance • Crew services, customs, and immigration formalities
7	**Statement of Facts (SOF) and Laytime Calculation (LT)** • Preparing the Statement of Facts • Understanding laytime and demurrage • Time calculations and documentation standards
8	**Charter Parties and Agent Responsibilities** • Overview of voyage and time charter agreements • The agent's duties regarding charter party obligations • Coordination between owners, charterers, and agents
9	**Agent and Shipping Documentation** • Key documents: Bill of Lading, Mate's Receipt, Manifest, Loading Orders • Incoterms and cargo handling terms • Document verification and reporting
10	**Liner Agents and Employment Contracts** • Liner shipping operations and service contracts

	• Duties and responsibilities under liner agency agreements • Employment and contractual relations in liner agency
11	**The Agent's Role in Cargo Operations** • Cargo handling supervision • Coordination with stevedores and terminal operators • Managing hazardous cargo and specialized shipments
12	**International Maritime Conventions I** • UNCLOS, 1982: provisions relevant to port agency • IMO conventions affecting port and ship operations • Compliance requirements for port agents
13	**International Maritime Conventions II** • Conventions on the carriage of passengers by sea • Ship registration, ownership, and certificates • Legal implications for agents handling passenger vessels
14	**Case Studies and Practical Applications** • Real-world scenarios involving pre-arrival, in-port, and post-departure agent duties • SOF and laytime calculation exercises • Documentation review and compliance exercises
15	**Course Review and Final Exam** • Comprehensive review of all topics • Discussion of practical issues and best practices in port agency • **FINAL EXAM**

Methods and Techniques used in the Course

Lectures and Theoretical Instruction

- Presentation of core concepts including port agency roles, ship types, charter parties, and international regulations.
- Use of visual aids, diagrams, and real-world examples.

Case Studies and Scenario Analysis

- Real-world port agency operations, including pre-arrival, in-port, and post-departure duties.
- Analysis of actual shipping documents, SOF, and laytime calculations.

Practical Exercises

- Preparation and verification of shipping documents (e.g., SOF, Manifest, Loading Orders).
- Laytime calculations and voyage-related exercises.
- Cargo handling coordination simulations.

Class Discussions and Interactive Sessions

- Debates on operational, commercial, and legal challenges in port agency.
- Problem-solving exercises in small groups.

Industry Reports and Reference Materials

- Use of port authority manuals, IMO publications, and shipping company guidelines.
- Analysis of international conventions and their applications.

Group Projects and Presentations

- Collaborative projects simulating agent responsibilities for a vessel call.
- Presentation of solutions and discussion of best practices.

Simulation-Based Learning (if available)

- Digital platforms to simulate vessel arrival, cargo handling, and coordination with port authorities.

Assignments and Independent Study

- Weekly exercises to reinforce lecture content.
- Research tasks on port operations, charter parties, and regulatory compliance.

Sample Questions

- **Define the role of a port agent.**

  Explain the key responsibilities before, during, and after a vessel's call at port.
- **List and describe the main types of ships.**

  Explain the differences in operational requirements and certifications for each type.
- **Explain how a port agent is appointed.**

  Discuss the types of port agents and their contractual relationships with shipowners and charterers.
- **Describe the interaction between a port agent and port authorities.**

  What are the legal and operational considerations during vessel arrival and departure?
- **What is a Statement of Facts (SOF)?**

  How is laytime calculated, and why is it important for voyage and time charters?
- **Discuss the responsibilities of a port agent regarding voyage and time charters.**

  How do charter party terms affect agent duties?
- **Explain the role of shipping documents in port agency operations.**

  Include Bills of Lading, Manifests, Loading Orders, and their relationship with Incoterms.
- **What are the duties of a liner agent compared to a tramp agent?**

  How do their employment contracts differ?
- **Outline key international conventions relevant to port agency operations.**

  Include UNCLOS, IMO conventions, and conventions on passenger carriage.
- **Describe the process of ship registration and certification.**

  Explain the implications for port agency responsibilities and legal compliance.

Materials Used in the Course

Primary Textbooks

- **BIMCO & International Chamber of Shipping** – *Shipping Agency: Principles and Practices*, 3rd Edition, Routledge, 2018.
- **Stopford, Martin** – *Maritime Economics*, 2nd Edition, Routledge, 2009.
- **Branch, Alan E.** – *Elements of Shipping*, 9th Edition, Routledge, 2021.

Recommended References

- **Grammenos, Costas (Ed.)** – *The Handbook of Maritime Economics and Business*, 2nd Edition, Routledge, 2010.
- **UNCTAD** – *Review of Maritime Transport*, Annual Reports.
- **Clarksons Research Reports**
- **IMO Publications and Conventions**

Supplementary Learning Materials

- **Case Studies**
- **Shipping Documentation Samples**
- **Simulation and Practical Exercises**
- **Academic Articles and Journals**

All the above listed books are available at UoK's Grand Library

Program Outcomes Matrix

	Program Outcomes	*Level of Contribution				Targeted Competence Areas
		0	1	2	3	
1	Demonstrate fundamental knowledge of maritime business, shipping operations, port management, and international logistics.				✓	Maritime Business & Operations
2	Apply principles of management, economics, and finance to ship operations, chartering, brokerage, and maritime organizational decision-making.				✓	Maritime Economics & Management
3	Understand and interpret international maritime law, conventions, and trade regulations including SOLAS, MARPOL, UNCLOS, and INCOTERMS.				✓	Maritime Law & Policy
4	Plan and manage port and terminal operations efficiently, considering cargo handling systems, port logistics, and intermodal transport networks.				✓	Port & Terminal Operations Management
5	Employ digital tools and data-driven approaches in ship management, fleet performance monitoring, and maritime logistics systems.				✓	Digital Maritime Operations
6	Integrate sustainability, environmental protection, and decarbonization principles into maritime and logistics operations in line with IMO GHG strategy.			✓		Sustainability & Green Shipping
7	Demonstrate competence in maritime risk assessment, safety management systems (ISM Code), and crisis response in ship and shore-based contexts.			✓		Safety & Risk Management
8	Exhibit leadership, teamwork, and communication skills necessary for multicultural and interdisciplinary maritime organizations.				✓	Leadership & Intercultural Communication
9	Apply marketing, logistics, and supply chain strategies to global shipping and maritime transport sectors.				✓	Global Logistics & Supply Chain Management
10	Prepare and analyze charter parties, bills of lading, and other shipping documents while managing cargo claims and marine insurance issues.				✓	Maritime Documentation & Insurance
11	Utilize effective business English and Maritime English for negotiation, correspondence, and documentation within international maritime contexts.			✓		Maritime Communication & Professional English
12	Demonstrate ethical awareness, corporate responsibility, and adherence to international professional standards in maritime and logistics management.			✓		Ethics & Corporate Responsibility
13	Develop research skills and analytical thinking to identify, evaluate, and solve complex problems in maritime transport and logistics systems.			✓		Analytical Thinking & Research Skills
14	Adapt to innovations such as digitalization, automation, and smart shipping technologies through continuous professional development.				✓	Innovation & Lifelong Learning
15	Apply entrepreneurship and strategic management principles to establish or develop maritime-related enterprises in a competitive global environment.			✓		Entrepreneurship & Strategic Management

***0:** No Contribution **1:** Little Contribution **2:** Partial Contribution **3:** Full Contribution

Program Outcomes /Course Learning Outcomes Matrix **Level of Contribution**:**0**-No Contribution **1**-Little Contribution **2**-Partial Contribution **3**-Full Contribution										
	LO1	**LO2**	**LO3**	**LO4**	**LO5**	**LO6**	**LO7**	**LO8**	**LO9**	**L10**
PO1	3	3	2	2	2	1	3	2	2	2
PO2	3	3	3	2	2	1	2	1	2	1
PO3	2	3	1	3	3	2	1	3	1	1
PO4	2	2	1	2	3	3	2	2	2	2
PO5	1	2	2	1	1	2	2	2	3	3
PO6	1	2	1	2	1	1	2	3	2	2
PO7	1	1	1	1	1	3	2	2	3	3
PO8	1	1	3	1	1	1	2	1	2	1
PO9	1	1	2	1	1	1	1	1	2	2
PO10	2	2	1	2	3	3	2	2	2	2
PO11	1	2	2	1	1	2	2	2	3	3
PO12	1	2	1	2	1	1	2	3	2	2
PO13	3	3	3	2	2	1	2	1	2	1
PO14	2	3	1	3	3	2	1	3	2	2
PO15	1	2	1	2	2	3	2	2	3	3

Course Learning Outcomes/ Evaluation Method		
Course Learning Outcomes (CLOs)	**Teaching Method**	**Assessment Method**
LO1. Explain the role and functions of port agents in maritime operations.	Lectures, Case Studies	Midterm Exam, Participation
LO2. Identify different ship types, their certificates, and operational requirements.	Lectures, Visual Aids	Quizzes, Assignments
LO3. Describe the appointment process, types of agents, and contractual relationships.	Lectures, Discussions	Written Assignment, Quizzes
LO4. Analyze interactions between agents, port authorities, and stakeholders.	Case Studies, Role Play	Group Project, Participation
LO5. Perform pre-arrival, in-port, and post-departure agent duties effectively.	Practical Exercises, Simulation	Assignments, Case Study Reports
LO6. Prepare, interpret, and manage shipping documents including SOF and laytime calculations.	Practical Exercises, Lectures	Assignments, Midterm Exam
LO7. Apply knowledge of voyage and time charter parties to agent responsibilities.	Lectures, Case Studies	Quizzes, Assignments
LO8. Explain the role of Incoterms and cargo handling terms in port agency operations.	Lectures, Discussions	Quizzes, Written Assignments
LO9. Evaluate the impact of international conventions (UNCLOS, IMO) on port agency activities.	Lectures, Case Studies	Midterm Exam, Participation
LO10. Apply practical skills to real-world port agency scenarios ensuring compliance and professional operations.	Simulation, Group Projects	Final Exam, Project Presentation

ECTS / Workload Table			
Activities	**Number**	**Duration (Hours)**	**Total Workload**
Preparation for lectures	**15**	**2**	**30**
Lectures	**15**	**3**	**45**
Midterm Exam	**1**	**2**	**2**
Preparation for Midterm Exam	**1**	**15**	**15**
Final Exam	**1**	**2**	**2**
Preparation for Final Exam	**1**	**15**	**15**
Presentation(s)	-	-	-
Preparation for Presentation(s)	-	-	-
Research for Project(s)/Essay(s)	-	-	-
Project Writing	-	-	-
Group Work	-	-	-
In-class Discussion(s)	**15**	**2**	**30**
Quiz(es)	-	-	-
Preparation for Quiz(es)	-	-	-
Laboratory	-	-	-
Assignment(s)/Homework/Class Works	**1**	**15**	**15**
Micro-Teaching Sessions	-	-	-
Lesson Planning	-	-	-
Materials Adaptation	-	-	-
Material Development	-	-	-
Draft Preparation	-	-	-
Drawing	-	-	-
Essay Writing	-	-	-
Tutorial(s)	-	-	-
Portfolio Preparation	-	-	-
Portfolio Presentation	-	-	-
Total Workload			**154**
ECTS Credit			**5**

Evaluation System		
Semester Requirements	**Number**	**Percentage of Grade**
Attendance/Participation	15	10
Laboratory	-	-
Application	-	-
Field Work	-	-
Special Course Internship (Work Placement)	-	-
Homework/Assignments	1	10
Providing reliability and motivation of the individual homework completion and Submission	-	-
Presentation/Jury	-	-
Project	-	-
Quiz	-	-
Midterms/Oral Exams	1	30
Final/Oral Exams	1	50
Total	**4**	**100**

	Percentage	**Course Grade**	**Coefficient**
Grading Policy	90-100	AA	4.0
	85-89	BA	3.5
	80-84	BB	3.0
	75-79	CB	2.5
	70-74	CC	2.0
	60-69	DC	1.5
	50-59	DD	1.0
	49 and below	FF	0.0
	Less than 70% attendance	NA	-
Course Requirements and Policies	• Alerted attendance at the lectures is essential! • Students are expected to check frequently the instructor's web page for the course announcements. • University of Kyrenia honor code will be strictly enforced regarding any issues concerning cheating.		

University of Kyrenia

Faculty of Maritime Studies

Maritime Management

Syllabus

Course name: Liner Trades							
Code	**Year**	**Semester**	**Credit**	**ECTS**	**Course application, Hour/Week**		
					Theoretical	**Application**	**Laboratory**
MMD302	III	Spring	3	4	3	0	0
Course type: Compulsory				**Prerequisite: x**		**Language:** English	
% Contribution to the Professional Fundamental Component				**Basic Sciences**	**Engineering Science**	**Engineering Design**	**General Education**
				-	-	-	100
Course Venue and Time				Wednesday / 13:30 – 16:20			
Instructor information				**Assist. Prof. Dr. Pınar Sharghi** Faculty of Maritime Studies Wednesday / 09:00 - 12:00 +90 (392) 650 26 00 / 4120 pinar.sharghi@kyrenia.edu.tr www.kyrenia.edu.tr			

Course Description	*Liner Trades* provides an in-depth examination of the operations, management, and legal framework of liner shipping. The course covers the historical development of liner trades, the types of liner ships, and the advent of containerisation and intermodal transport. Students will study liner cargo types, handling equipment, and loading/discharging procedures, as well as the management structures of liner companies, consortia, alliances, and cooperative arrangements. The course also addresses liner freight, pricing mechanisms, Full Container Load (FCL) and Less Container Load (LCL) shipments, and the role of Inland Container Depots (ICDs). Emphasis is placed on the preparation and interpretation of bills of lading and other essential shipping documentation, as well as compliance with international conventions and the legal aspects of liner operations. Through case studies, practical exercises, and discussions, students will acquire the knowledge and skills needed to manage liner operations effectively in a global shipping context.
Course Aims and Objectives	The primary aim of *Liner Trades* is to provide students with a thorough understanding of liner shipping operations, management, documentation, and legal frameworks, equipping them with the skills to work effectively in the global liner shipping industry. • Introduce the historical development and significance of liner trades. • Explain the types of liner ships and their operational characteristics. • Examine the advent of containerisation and the types of containers used in liner shipping. • Explore multimodal and intermodal transport and the role of liner operators in integrated logistics. • Analyze liner cargo types, handling equipment, and loading/discharging arrangements. • Study the management structures of liner companies, consortia, alliances, and cooperative arrangements. • Explain liner freight calculation, pricing strategies, and the factors influencing freight rates. • Distinguish between FCL and LCL shipments and the role of Inland Container Depots (ICDs). • Understand the preparation, interpretation, and legal significance of bills of lading and other shipping documentation. • Examine international conventions, maritime law, and legal aspects related to liner trades.
	LO1. Explain the historical development and significance of liner trades in global shipping.

Course Learning Outcomes	**LO2.** Identify different types of liner ships and their operational and commercial characteristics. **LO3.** Describe the advent of containerisation, container types, and their impact on liner shipping efficiency. **LO4.** Analyze multimodal and intermodal transport and the role of liner operators in logistics networks. **LO5.** Explain liner cargo types, cargo handling equipment, and loading/discharging procedures. **LO6.** Examine liner company management, consortia, alliances, and cooperative arrangements. **LO7.** Apply knowledge of liner freight calculation, pricing strategies, and factors affecting freight rates. **LO8.** Distinguish between FCL and LCL shipments and explain the function of Inland Container Depots (ICDs). **LO9.** Prepare, interpret, and manage bills of lading and other essential shipping documentation. **LO10.** Evaluate legal frameworks, international conventions, and regulations governing liner shipping operations.

Content of the Course

Week	*Subject*
1	**Introduction to Liner Trades** • Definition of liner trades • Historical development of liner shipping • Overview of global liner trade evolution
2	**Liner Ship Types and Characteristics** • Container ships, feeder vessels, Ro-Ro ships, and general cargo ships • Operational and commercial characteristics of each liner ship type • Certification and classification requirements
3	**Advent of Containerisation** • History and impact of containerisation on liner shipping • Advantages of containerisation for efficiency and cost reduction • Key concepts and terminology
4	**Container Types and Handling Equipment** • Standard containers (20', 40', high cube, refrigerated, tank containers) • Specialized containers and equipment • Container handling, stowage, and safety considerations
5	**Containerisation and Multimodal Transport** • Concepts of intermodalism and multimodal transport • Coordination between sea, rail, and road transport • Role of liner operators in multimodal logistics
6	**Liner Cargo and Cargo Operations** • Types of liner cargo (FCL, LCL) • Cargo handling equipment and procedures for loading/discharging • Terminal operations and container yards
7	**Liner Shipping Management and Organisations** • Liner companies' structures and operations • Roles of management, operations, and commercial departments • Decision-making processes in liner shipping
8	**Consortia, Alliances, and Consolidation** • Strategic cooperation between liner companies • Shipping alliances, consortia, and vessel sharing agreements • Economic and operational benefits of cooperation
9	**Liner Freight and Pricing** • Freight calculation methods and pricing strategies • Tariffs, surcharges, and rate structures • Factors affecting liner freight rates
10	**FCL, LCL, and ICDs** • Full Container Load (FCL) vs. Less Container Load (LCL)

	• Role of Inland Container Depots (ICDs) and logistics hubs • Coordination between shippers, consignees, and liner operators
11	**Liner Operators and Cooperation** • Operational collaboration among liner operators • Strategic alliances and market competition • Case studies on successful liner cooperation
12	**Bills of Lading (B/L) and Documentation I** • Purpose and function of the Bill of Lading • Key clauses and responsibilities under B/L • Preparation and handling of shipping documentation
13	**Bills of Lading (B/L) and Documentation II** • Other liner trade documents: waybills, delivery orders, manifests • Documentation procedures and regulatory compliance • International conventions related to B/L
14	**Legal Aspects of Liner Trades** • Legal framework for liner shipping operations • International conventions and maritime law affecting liner trades • Liability, claims, and dispute resolution
15	**Course Review and Final Exam** • Comprehensive review of all topics • Case studies and discussion of practical issues in liner shipping • **FINAL EXAM**

Methods and Techniques used in the Course

Lectures and Theoretical Instruction

- Presentation of core concepts such as liner trade history, ship types, containerisation, and legal frameworks.
- Use of slides, charts, and visual aids to illustrate liner shipping operations and processes.

Case Studies and Scenario Analysis

- Real-world examples of liner operations, freight calculation, consortia, and alliance management.
- Analysis of documentation and decision-making in practical shipping scenarios.

Practical Exercises

- Cargo handling, stowage, and loading/discharging arrangements.
- Exercises on bills of lading, freight calculation, and FCL/LCL shipments.

Class Discussions and Interactive Sessions

- Debates on operational, commercial, and legal challenges in liner shipping.
- Group problem-solving exercises related to alliances, consortia, and freight strategies.

Industry Reports and Reference Materials

- Analysis of market reports, containerisation trends, and regulatory publications.
- Review of international conventions impacting liner trades (e.g., IMO regulations).

Group Projects and Presentations

- Collaborative projects simulating liner operations and alliance cooperation.
- Presentation of solutions and discussion of best practices in liner management.

Simulation-Based Learning (if available)

- Digital platforms to simulate container operations, FCL/LCL planning, and intermodal logistics.

Assignments and Independent Study

- Weekly exercises and reading assignments to reinforce lecture content.
- Research on specific liner trade practices, containerisation, and shipping documentation.

Sample Questions

- **Define liner trades** and explain their historical development in global shipping.
- **List and describe the main types of liner ships.**
  How do their operational and commercial characteristics differ?
- **Explain the impact of containerisation** on liner shipping efficiency and cost.
- **Compare different types of containers** (e.g., 20', 40', high cube, refrigerated, tank containers) and their uses.
- **Describe multimodal and intermodal transport** and explain the role of liner operators in integrated logistics.
- **Identify and explain the main types of liner cargo** and the equipment used for loading and discharging operations.
- **Discuss the management structure of liner companies** and the significance of consortia, alliances, and cooperation.
- **Explain how liner freight is calculated** and describe factors affecting pricing strategies.
- **Differentiate between FCL and LCL shipments** and explain the function of Inland Container Depots (ICDs).
- **Discuss the purpose and legal significance of the Bill of Lading** and other key documentation used in liner trades.
- **Outline international conventions and regulations** relevant to liner shipping operations.

Materials Used in the Course

Primary Textbooks

- **Stopford, Martin** – *Maritime Economics*, 2nd Edition, Routledge, 2009.
- **Branch, Alan E.** – *Elements of Shipping*, 9th Edition, Routledge, 2021.
- **Rodrigue, Jean-Paul & Notteboom, Theo** – *The Geography of Transport Systems*, 5th Edition, Routledge, 2020.

Recommended References

- **Grammenos, Costas (Ed.)** – *The Handbook of Maritime Economics and Business*, 2nd Edition, Routledge, 2010.
- **UNCTAD** – *Review of Maritime Transport*, Annual Reports.
- **IMO Publications and Conventions**
- **Clarksons Research Reports**

Supplementary Learning Materials

- **Case Studies**
- **Shipping Documentation Samples**
- **Simulation and Practical Exercises**
- **Academic Journals**

All the above listed books are available at UoK's Grand Library

Program Outcomes Matrix

	Program Outcomes	*Level of Contribution				Targeted Competence Areas
		0	1	2	3	
1	Demonstrate fundamental knowledge of maritime business, shipping operations, port management, and international logistics.				✓	Maritime Business & Operations
2	Apply principles of management, economics, and finance to ship operations, chartering, brokerage, and maritime organizational decision-making.				✓	Maritime Economics & Management
3	Understand and interpret international maritime law, conventions, and trade regulations including SOLAS, MARPOL, UNCLOS, and INCOTERMS.				✓	Maritime Law & Policy
4	Plan and manage port and terminal operations efficiently, considering cargo handling systems, port logistics, and intermodal transport networks.				✓	Port & Terminal Operations Management
5	Employ digital tools and data-driven approaches in ship management, fleet performance monitoring, and maritime logistics systems.				✓	Digital Maritime Operations
6	Integrate sustainability, environmental protection, and decarbonization principles into maritime and logistics operations in line with IMO GHG strategy.			✓		Sustainability & Green Shipping
7	Demonstrate competence in maritime risk assessment, safety management systems (ISM Code), and crisis response in ship and shore-based contexts.			✓		Safety & Risk Management
8	Exhibit leadership, teamwork, and communication skills necessary for multicultural and interdisciplinary maritime organizations.				✓	Leadership & Intercultural Communication
9	Apply marketing, logistics, and supply chain strategies to global shipping and maritime transport sectors.				✓	Global Logistics & Supply Chain Management
10	Prepare and analyze charter parties, bills of lading, and other shipping documents while managing cargo claims and marine insurance issues.				✓	Maritime Documentation & Insurance
11	Utilize effective business English and Maritime English for negotiation, correspondence, and documentation within international maritime contexts.			✓		Maritime Communication & Professional English
12	Demonstrate ethical awareness, corporate responsibility, and adherence to international professional standards in maritime and logistics management.			✓		Ethics & Corporate Responsibility
13	Develop research skills and analytical thinking to identify, evaluate, and solve complex problems in maritime transport and logistics systems.			✓		Analytical Thinking & Research Skills
14	Adapt to innovations such as digitalization, automation, and smart shipping technologies through continuous professional development.				✓	Innovation & Lifelong Learning
15	Apply entrepreneurship and strategic management principles to establish or develop maritime-related enterprises in a competitive global environment.			✓		Entrepreneurship & Strategic Management

***0:** No Contribution **1:** Little Contribution **2:** Partial Contribution **3:** Full Contribution

Program Outcomes /Course Learning Outcomes Matrix **Level of Contribution**:**0**-No Contribution **1**-Little Contribution **2**-Partial Contribution **3**-Full Contribution										
	LO1	**LO2**	**LO3**	**LO4**	**LO5**	**LO6**	**LO7**	**LO8**	**LO9**	**L10**
PO1	3	3	2	2	2	1	3	2	2	2
PO2	3	3	3	2	2	1	2	1	2	1
PO3	2	3	1	3	3	2	1	3	1	1
PO4	2	2	1	2	3	3	2	2	2	2
PO5	1	2	2	1	1	2	2	2	3	3
PO6	1	2	1	2	1	1	2	3	2	2
PO7	1	1	1	1	1	3	2	2	3	3
PO8	1	1	3	1	1	1	2	1	2	1
PO9	1	1	2	1	1	1	1	1	2	2
PO10	2	2	1	2	3	3	2	2	2	2
PO11	1	2	2	1	1	2	2	2	3	3
PO12	1	2	1	2	1	1	2	3	2	2
PO13	3	3	3	2	2	1	2	1	2	1
PO14	2	3	1	3	3	2	1	3	2	2
PO15	1	2	1	2	2	3	2	2	3	3

Course Learning Outcomes/ Evaluation Method		
Course Learning Outcomes (CLOs)	**Teaching Method**	**Assessment Method**
LO1. Explain the historical development and significance of liner trades.	Lectures, Case Studies	Quizzes, Midterm Exam
LO2. Identify different types of liner ships and their operational characteristics.	Lectures, Visual Aids	Quizzes, Assignments
LO3. Describe containerisation, container types, and their impact on shipping efficiency.	Lectures, Practical Exercises	Assignments, Midterm Exam
LO4. Analyze multimodal and intermodal transport and the role of liner operators in logistics.	Lectures, Case Studies	Group Project, Participation
LO5. Explain liner cargo types, cargo handling equipment, and loading/discharging arrangements.	Practical Exercises, Demonstrations	Assignments, Practical Reports
LO6. Examine liner company management, consortia, alliances, and cooperative arrangements.	Lectures, Discussions	Case Study Analysis, Group Project
LO7. Apply knowledge of liner freight calculation, pricing strategies, and factors affecting freight rates.	Lectures, Problem-Solving Exercises	Assignments, Quizzes
LO8. Distinguish between FCL and LCL shipments and explain the role of Inland Container Depots (ICDs).	Lectures, Practical Exercises	Quizzes, Assignments
LO9. Prepare, interpret, and manage bills of lading and other essential shipping documentation.	Practical Exercises, Demonstrations	Assignments, Midterm Exam
LO10. Evaluate legal frameworks, international conventions, and regulations governing liner shipping operations.	Lectures, Case Studies	Midterm Exam, Final Exam

ECTS / Workload Table			
Activities	**Number**	**Duration (Hours)**	**Total Workload**
Preparation for lectures	-	-	-
Lectures	**15**	**3**	**45**
Midterm Exam	**1**	**2**	**2**
Preparation for Midterm Exam	**1**	**15**	**15**
Final Exam	**1**	**2**	**2**
Preparation for Final Exam	**1**	**15**	**15**
Presentation(s)	-	-	-
Preparation for Presentation(s)	-	-	-
Research for Project(s)/Essay(s)	-	-	-
Project Writing	-	-	-
Group Work	-	-	-
In-class Discussion(s)	**15**	**2**	**30**
Quiz(es)	-	-	-
Preparation for Quiz(es)	-	-	-
Laboratory	-	-	-
Assignment(s)/Homework/Class Works	**1**	**15**	**15**
Micro-Teaching Sessions	-	-	-
Lesson Planning	-	-	-
Materials Adaptation	-	-	-
Material Development	-	-	-
Draft Preparation	-	-	-
Drawing	-	-	-
Essay Writing	-	-	-
Tutorial(s)	-	-	-
Portfolio Preparation	-	-	-
Portfolio Presentation	-	-	-
Total Workload			**124**
ECTS Credit			**4**

Evaluation System		
Semester Requirements	**Number**	**Percentage of Grade**
Attendance/Participation	15	10
Laboratory	-	-
Application	-	-
Field Work	-	-
Special Course Internship (Work Placement)	-	-
Homework/Assignments	1	10
Providing reliability and motivation of the individual homework completion and Submission	-	-
Presentation/Jury	-	-
Project	-	-
Quiz	-	-
Midterms/Oral Exams	1	30
Final/Oral Exams	1	50
Total	**4**	**100**

	Percentage	**Course Grade**	**Coefficient**
Grading Policy	90-100	AA	4.0
	85-89	BA	3.5
	80-84	BB	3.0
	75-79	CB	2.5
	70-74	CC	2.0
	60-69	DC	1.5
	50-59	DD	1.0
	49 and below	FF	0.0
	Less than 70% attendance	NA	-
Course Requirements and Policies	• Alerted attendance at the lectures is essential! • Students are expected to check frequently the instructor's web page for the course announcements. • University of Kyrenia honor code will be strictly enforced regarding any issues concerning cheating.		

University of Kyrenia

Faculty of Maritime Studies

Maritime Management

Syllabus

Course name: Global Logistics							
Code	**Year**	**Semester**	**Credit**	**ECTS**	**Course application, Hour/Week**		
					Theoretical	**Application**	**Laboratory**
MMD304	III	Spring	3	4	3	0	0
Course type: Compulsory				**Prerequisite: x**		**Language:** English	
% Contribution to the Professional Fundamental Component				**Basic Sciences**	**Engineering Science**	**Engineering Design**	**General Education**
				-	-	-	100
Course Venue and Time				Wednesday / 13:30 – 16:20			
Instructor information				**Assist. Prof. Dr. Pınar Sharghi** Faculty of Maritime Studies Wednesday / 09:00 - 12:00 +90 (392) 650 26 00 / 4120 pinar.sharghi@kyrenia.edu.tr www.kyrenia.edu.tr			

Course Description	*Global Logistics* provides a comprehensive study of the principles, processes, and strategies involved in managing international supply chains and logistics operations. The course covers transportation modes, intermodal and multimodal systems, port and terminal operations, freight forwarding, warehousing, inventory management, and the role of shipping in global trade. Students will examine regulatory frameworks, documentation, customs procedures, and risk management strategies in cross-border logistics. The course also emphasizes the use of information and communication technologies, sustainable practices, and performance optimization in global logistics networks. Through case studies, practical exercises, and analysis of real-world scenarios, students will gain the knowledge and skills required to plan, manage, and optimize logistics operations within the maritime and international trade sectors.
Course Aims and Objectives	The primary aim of *Global Logistics* is to equip students with the knowledge, skills, and analytical tools needed to effectively manage international logistics and supply chain operations within the maritime industry. The course emphasizes practical understanding of global transport systems, port and terminal operations, and logistics management, preparing students for professional roles in maritime logistics, shipping companies, and supply chain management. • Introduce the concepts of global logistics and its role in international trade and supply chains. • Explain the integration of maritime transport, ports, and terminals into logistics networks. • Analyze different transportation modes and the application of intermodal and multimodal systems. • Examine freight forwarding, agency operations, and documentation for international cargo. • Develop an understanding of warehouse management, inventory control, and distribution strategies. • Explore ICT and digitalization applications for efficient logistics management. • Explain customs procedures, regulatory compliance, and international trade requirements. • Identify and manage risks associated with global logistics operations. • Promote sustainable and environmentally responsible practices in logistics. • Apply strategic planning and performance optimization techniques to global logistics networks.

Course Learning Outcomes	**LO1.** Explain the concepts and scope of global logistics and its role in international trade. **LO2.** Analyze the integration of maritime transport, ports, and terminals within supply chains. **LO3.** Evaluate different transportation modes and the use of intermodal and multimodal systems. **LO4.** Apply principles of freight forwarding, agency operations, and cargo documentation. **LO5.** Plan and manage warehousing, inventory control, and distribution operations. **LO6.** Utilize information and communication technologies to optimize logistics processes. **LO7.** Understand customs procedures, regulatory compliance, and international trade requirements. **LO8.** Identify, assess, and mitigate operational, financial, and environmental risks in logistics. **LO9.** Implement sustainable and environmentally responsible practices in logistics operations. **LO10.** Design strategic logistics plan and optimize performance within global supply chains.

Content of the Course

Week	*Subject*
1	**Introduction to Global Logistics** • Definition and scope of logistics in international trade • Relationship between logistics, supply chains, and maritime transport • Key players and stakeholders in global logistics networks
2	**Components of the Global Supply Chain** • Supply chain management concepts • Logistics flows: physical, informational, and financial • Role of ports, terminals, and shipping companies in supply chains
3	**Transportation Modes and Multimodal Systems** • Overview of transport modes: sea, air, road, rail • Intermodal and multimodal transport systems • Containerization and standardization in global logistics
4	**International Trade and Logistics** • INCOTERMS and their application in logistics contracts • Documentation and compliance for international cargo • Customs procedures, duties, and regulatory requirements
5	**Shipping and Maritime Logistics** • Role of shipping in global trade and supply chains • Liner and tramp shipping, and their integration with ports and logistics • Freight markets and chartering impact on logistics
6	**Port and Terminal Operations in Logistics** • Port functions and terminal types relevant to global logistics • Terminal layout, infrastructure, and cargo handling • Integration of ports with hinterlands and inland transport
7	**Inventory and Warehouse Management** • Warehousing principles, storage systems, and inventory control • Material handling and distribution strategies • Just-in-time (JIT) and lean logistics in maritime operations
8	**Freight Forwarding and Agency Operations** • Role of freight forwarders and port agents • Coordination of shipments, bookings, and cargo documentation • Managing transport contracts and carrier obligations
9	**Information and Communication Technology in Logistics** • Port Community Systems (PCS) and terminal operating systems • Tracking, visibility, and automation in global logistics • Data management for supply chain optimization
10	**Risk Management in Global Logistics** • Identifying operational, financial, and environmental risks

	• Insurance, liability, and risk mitigation strategies • Contingency planning for disruptions in supply chains
11	**Sustainability and Green Logistics** • Environmental challenges in global logistics • Green initiatives in shipping, ports, and transport • Carbon footprint reduction and energy efficiency strategies
12	**Strategic Planning in Global Logistics** • Logistics network design and optimization • Route planning, fleet deployment, and supply chain integration • Performance indicators and benchmarking in global logistics
13	**Legal and Regulatory Frameworks** • International conventions and regulations affecting global logistics • Maritime law, trade agreements, and customs compliance • Documentation and contractual obligations in cross-border operations
14	**Case Studies in Global Logistics** • Analysis of real-world logistics networks and supply chain challenges • Lessons from shipping disruptions, port congestion, and international crises • Integration of maritime, port, and logistics strategies
15	**Course Review and Final Exam** • Comprehensive review of all topics • Group discussion on global logistics scenarios and solutions • **FINAL EXAM**

Methods and Techniques used in the Course

Lectures and Theoretical Instruction

- Core concepts including global logistics, supply chain integration, transportation modes, and port operations.
- Use of slides, diagrams, and charts to illustrate logistics networks and flows.

Case Studies and Scenario Analysis

- Real-world examples of global logistics operations, challenges, and solutions.
- Analysis of port congestion, shipping disruptions, and multimodal transport planning.

Practical Exercises

- Freight forwarding exercises, shipment planning, and route optimization.
- Warehouse and inventory management simulations.

Class Discussions and Interactive Sessions

- Group discussions on supply chain challenges and logistics strategies.
- Problem-solving sessions on operational, regulatory, and sustainability issues.

Industry Reports and Reference Materials

- Review of international logistics reports, port authority publications, and trade statistics.
- Analysis of global transport trends, trade flows, and ICT in logistics.

Group Projects and Presentations

- Collaborative projects simulating global supply chain management, multimodal transport, and port operations.
- Presentations of logistics plans, performance evaluations, and improvement strategies.

Assignments and Independent Study

- Weekly assignments on transport planning, supply chain analysis, and documentation.
- Independent research on emerging trends in global logistics and maritime management.

Sample Questions

- Define global logistics and explain its role in international trade and supply chains.
- Describe the integration of maritime transport, ports, and terminals in global logistics operations.
- Compare and contrast intermodal and multimodal transport systems. What are their advantages and challenges?
- Explain the role of freight forwarders and port agents in international cargo operations.
- Discuss the principles of warehouse management, inventory control, and distribution strategies in logistics.
- How can information and communication technologies (ICT) improve efficiency in global logistics? Provide examples.
- Outline the key customs procedures, documentation, and regulatory requirements for international cargo shipments.
- Identify and analyze the main operational, financial, and environmental risks in global logistics.
- Explain the concept of green logistics and describe practices that can reduce the environmental impact of global supply chains.
- Develop a strategic logistics plan for a maritime supply chain, considering transportation, port operations, and distribution.

Materials Used in the Course

Primary Textbooks

- **Christopher, Martin** – *Logistics & Supply Chain Management*, 6th Edition, Pearson, 2016.
- **Rodrigue, Jean-Paul, Notteboom, Theo, & Slack, Brian** – *The Geography of Transport Systems*, 5th Edition, Routledge, 2020.
- **Rushton, Alan, Croucher, Peter, & Baker, Phil** – *The Handbook of Logistics and Distribution Management*, 6th Edition, Kogan Page, 2017.

Recommended References

- **Notteboom, Theo & Rodrigue, Jean-Paul** – *Port Management and Operations*, Routledge, 2017.
- **UNCTAD** – *Review of Maritime Transport*, Annual Reports.
- **World Bank & OECD Reports** – Global trade, logistics performance indices, and infrastructure analyses.
- **Branch, Alan E.** – *Elements of Shipping*, 9th Edition, Routledge, 2021.

Supplementary Learning Materials

- **Case Studies**
- **Practical Exercises**
- **Industry Reports and Guidelines**
- **Academic Journals**

All the above listed books are available at UoK's Grand Library

Program Outcomes Matrix

	Program Outcomes	*Level of Contribution				Targeted Competence Areas
		0	1	2	3	
1	Demonstrate fundamental knowledge of maritime business, shipping operations, port management, and international logistics.				✓	Maritime Business & Operations
2	Apply principles of management, economics, and finance to ship operations, chartering, brokerage, and maritime organizational decision-making.				✓	Maritime Economics & Management
3	Understand and interpret international maritime law, conventions, and trade regulations including SOLAS, MARPOL, UNCLOS, and INCOTERMS.				✓	Maritime Law & Policy
4	Plan and manage port and terminal operations efficiently, considering cargo handling systems, port logistics, and intermodal transport networks.				✓	Port & Terminal Operations Management
5	Employ digital tools and data-driven approaches in ship management, fleet performance monitoring, and maritime logistics systems.				✓	Digital Maritime Operations
6	Integrate sustainability, environmental protection, and decarbonization principles into maritime and logistics operations in line with IMO GHG strategy.			✓		Sustainability & Green Shipping
7	Demonstrate competence in maritime risk assessment, safety management systems (ISM Code), and crisis response in ship and shore-based contexts.			✓		Safety & Risk Management
8	Exhibit leadership, teamwork, and communication skills necessary for multicultural and interdisciplinary maritime organizations.				✓	Leadership & Intercultural Communication
9	Apply marketing, logistics, and supply chain strategies to global shipping and maritime transport sectors.				✓	Global Logistics & Supply Chain Management
10	Prepare and analyze charter parties, bills of lading, and other shipping documents while managing cargo claims and marine insurance issues.				✓	Maritime Documentation & Insurance
11	Utilize effective business English and Maritime English for negotiation, correspondence, and documentation within international maritime contexts.			✓		Maritime Communication & Professional English
12	Demonstrate ethical awareness, corporate responsibility, and adherence to international professional standards in maritime and logistics management.			✓		Ethics & Corporate Responsibility
13	Develop research skills and analytical thinking to identify, evaluate, and solve complex problems in maritime transport and logistics systems.			✓		Analytical Thinking & Research Skills
14	Adapt to innovations such as digitalization, automation, and smart shipping technologies through continuous professional development.				✓	Innovation & Lifelong Learning
15	Apply entrepreneurship and strategic management principles to establish or develop maritime-related enterprises in a competitive global environment.			✓		Entrepreneurship & Strategic Management

***0:** No Contribution **1:** Little Contribution **2:** Partial Contribution **3:** Full Contribution

Program Outcomes /Course Learning Outcomes Matrix **Level of Contribution**:**0**-No Contribution **1**-Little Contribution **2**-Partial Contribution **3**-Full Contribution										
	LO1	**LO2**	**LO3**	**LO4**	**LO5**	**LO6**	**LO7**	**LO8**	**LO9**	**L10**
PO1	3	3	2	2	2	1	3	2	2	2
PO2	3	3	3	2	2	1	2	1	2	1
PO3	2	3	1	3	3	2	1	3	1	1
PO4	2	2	1	2	3	3	2	2	2	2
PO5	1	2	2	1	1	2	2	2	3	3
PO6	1	2	1	2	1	1	2	3	2	2
PO7	1	1	1	1	1	3	2	2	3	3
PO8	1	1	3	1	1	1	2	1	2	1
PO9	1	1	2	1	1	1	1	1	2	2
PO10	2	2	1	2	3	3	2	2	2	2
PO11	1	2	2	1	1	2	2	2	3	3
PO12	1	2	1	2	1	1	2	3	2	2
PO13	3	3	3	2	2	1	2	1	2	1
PO14	2	3	1	3	3	2	1	3	2	2
PO15	1	2	1	2	2	3	2	2	3	3

Course Learning Outcomes/ Evaluation Method		
Course Learning Outcomes (CLOs)	**Teaching Method**	**Assessment Method**
LO1. Explain the concepts and scope of global logistics and its role in international trade.	Lectures, Case Studies	Quizzes, Assignments
LO2. Analyze the integration of maritime transport, ports, and terminals within supply chains.	Lectures, Discussions	Assignments, Case Study Reports
LO3. Evaluate different transportation modes and the use of intermodal and multimodal systems.	Practical Exercises, Demonstrations	Assignments, Quizzes
LO4. Apply principles of freight forwarding, agency operations, and cargo documentation.	Lectures, Simulations	Assignments, Practical Reports
LO5. Plan and manage warehousing, inventory control, and distribution operations.	Practical Exercises, Group Work	Assignments, Project Reports
LO6. Utilize information and communication technologies to optimize logistics processes.	Demonstrations, Lectures	Practical Exercises, Quizzes
LO7. Understand customs procedures, regulatory compliance, and international trade requirements.	Lectures, Case Studies	Quizzes, Assignments
LO8. Identify, assess, and mitigate operational, financial, and environmental risks in logistics.	Lectures, Discussions	Assignments, Case Study Reports
LO9. Implement sustainable and environmentally responsible practices in logistics operations.	Lectures, Case Studies	Assignments, Participation
LO10. Design strategic logistics plans and optimize performance within global supply chains.	Group Projects, Simulations	Project Reports, Final Exam

ECTS / Workload Table			
Activities	**Number**	**Duration (Hours)**	**Total Workload**
Preparation for lectures	-	-	-
Lectures	**15**	**3**	**45**
Midterm Exam	**1**	**2**	**2**
Preparation for Midterm Exam	**1**	**15**	**15**
Final Exam	**1**	**2**	**2**
Preparation for Final Exam	**1**	**15**	**15**
Presentation(s)	-	-	-
Preparation for Presentation(s)	-	-	-
Research for Project(s)/Essay(s)	-	-	-
Project Writing	-	-	-
Group Work	-	-	-
In-class Discussion(s)	**15**	**2**	**30**
Quiz(es)	-	-	-
Preparation for Quiz(es)	-	-	-
Laboratory	-	-	-
Assignment(s)/Homework/Class Works	**1**	**15**	**15**
Micro-Teaching Sessions	-	-	-
Lesson Planning	-	-	-
Materials Adaptation	-	-	-
Material Development	-	-	-
Draft Preparation	-	-	-
Drawing	-	-	-
Essay Writing	-	-	-
Tutorial(s)	-	-	-
Portfolio Preparation	-	-	-
Portfolio Presentation	-	-	-
Total Workload			**124**
ECTS Credit			**4**

Evaluation System		
Semester Requirements	**Number**	**Percentage of Grade**
Attendance/Participation	15	10
Laboratory	-	-
Application	-	-
Field Work	-	-
Special Course Internship (Work Placement)	-	-
Homework/Assignments	1	10
Providing reliability and motivation of the individual homework completion and Submission	-	-
Presentation/Jury	-	-
Project	-	-
Quiz	-	-
Midterms/Oral Exams	1	30
Final/Oral Exams	1	50
Total	**4**	**100**

	Percentage	**Course Grade**	**Coefficient**
Grading Policy	90-100	AA	4.0
	85-89	BA	3.5
	80-84	BB	3.0
	75-79	CB	2.5
	70-74	CC	2.0
	60-69	DC	1.5
	50-59	DD	1.0
	49 and below	FF	0.0
	Less than 70% attendance	NA	-
Course Requirements and Policies	• Alerted attendance at the lectures is essential! • Students are expected to check frequently the instructor's web page for the course announcements. • University of Kyrenia honor code will be strictly enforced regarding any issues concerning cheating.		

University of Kyrenia

Faculty of Maritime Studies

Maritime Management

Syllabus

Course name: Marine Insurance							
Code	**Year**	**Semester**	**Credit**	**ECTS**	**Course application, Hour/Week**		
					Theoretical	**Application**	**Laboratory**
MMD306	III	Spring	3	4	3	0	0
Course type: Compulsory				**Prerequisite: x**		**Language:** English	
% Contribution to the Professional Fundamental Component				**Basic Sciences**	**Engineering Science**	**Engineering Design**	**General Education**
				-	-	-	100
Course Venue and Time				Wednesday / 13:30 – 16:20			
Instructor information				**Dr. Gökhan Tarı** Faculty of Maritime Studies Wednesday / 09:00 – 12:00 +90 (392) 650 26 00 / 4040 gokhan.tari@kyrenia.edu.tr www.kyrenia.edu.tr			

Course Description	This course provides an in-depth understanding of maritime risk management and insurance practices. It covers the fundamental principles of insurance law, with a focus on marine insurance, hull and machinery insurance, and Protection & Indemnity (P&I) coverage. Students will learn about the legal and economic significance of ship insurance, the structure and content of insurance policies, risk assessment, claims procedures, and coordination between different types of coverage. The course also emphasizes practical applications through case studies, risk management exercises, and simulations to equip students with the knowledge and skills required to protect ships and their operations from potential financial and operational risks.
Course Aims and Objectives	The course aims to provide students with a comprehensive understanding of maritime insurance and risk management. It focuses on equipping students with the knowledge and skills to identify, assess, and mitigate risks associated with ship operations and to understand the legal and practical frameworks of marine insurance. • Explain the basic principles and legal foundations of insurance and maritime insurance law. • Identify different types of marine insurance, including hull and machinery, cargo, and Protection & Indemnity (P&I) coverage. • Understand the components and clauses of marine insurance policies and their practical applications. • Analyze risks related to ship operations and determine appropriate risk mitigation strategies. • Manage claims and interactions with insurance companies effectively. • Apply maritime insurance principles to real-world scenarios through case studies and simulations.
	LO1. Explain the principles of insurance, including the legal and economic necessity of marine insurance in shipping operations. **LO2.** Differentiate between types of insurance, focusing on the distinctions between general and marine insurance.

Course Learning Outcomes	**LO3.** Analyze marine insurance policies, including key clauses, conditions, and obligations of the insured and insurer. **LO4.** Evaluate the scope, coverage, and risk assessment methods of Hull and Machinery (H&M) insurance. **LO5.** Assess the purpose, coverage, and claims handling procedures of Protection & Indemnity (P&I) Club insurance. **LO6.** Identify, assess, and mitigate operational and financial risks in shipping through effective insurance strategies. **LO7.** Interpret the legal frameworks governing marine insurance, including international conventions and national laws. **LO8.** Apply practical procedures for marine insurance documentation, endorsements, and communication with insurers and brokers. **LO9.** Examine historical and contemporary marine insurance claims to derive lessons for risk prevention and management. **LO10.** Evaluate emerging trends in marine insurance, including technology, environmental regulations, and cyber risks, and integrate them into risk management decisions.

Content of the Course

Week	*Subject*
1	**Introduction to Insurance and Insurance Law** • Definition of insurance • Legal and economic necessity of insurance • Overview of different types of insurance
2	**Principles of Marine Insurance** • Definition and scope of marine insurance • Distinction between general and maritime insurance • Importance of marine insurance for ship operations
3	**Marine Insurance Policies** • Structure and content of insurance policies • Key clauses and conditions • Obligations of the insured and insurer
4	**Hull and Machinery Insurance (Part I)** • Scope and coverage of hull insurance • Risk assessment and valuation of ships • Conditions and exclusions
5	**Hull and Machinery Insurance (Part II)** • Machinery coverage specifics • Claims procedures and documentation • Interaction with the insurance company
6	**P&I Club Insurance (Part I)** • Definition and purpose of Protection & Indemnity (P&I) insurance • Scope of P&I coverage for shipowners
7	**P&I Club Insurance (Part II)** • Claims handling and coordination with the P&I club • Legal and operational responsibilities of members
8	**Risk Assessment and Management in Shipping** • Identifying risks associated with ship operations • Mitigation strategies and preventive measures • Role of insurance in risk management
9	**Case Studies on Marine Insurance Claims** • Analysis of historical and recent claims • Lessons learned for risk prevention and claims handling
10	**Legal Framework of Marine Insurance** • Relevant international conventions and national laws • Rights and obligations of parties under marine insurance law
11	**Insurance Documentation and Communication**

	• Policy issuance, endorsements, and adjustments • Effective communication with insurers and brokers
12	**Interaction Between Hull, Machinery, and P&I Insurance** • Coordination between different types of insurance coverage • Avoiding overlaps and gaps in protection
13	**Emerging Trends in Marine Insurance** • Impact of technology, environmental regulations, and new shipping routes • Cyber risks and modern insurance solutions
14	**Risk Management Exercises and Simulations** • Practical exercises in risk assessment and claims scenarios • Role-playing negotiations with insurers and P&I clubs
15	**Review and Assessment** • Summary of course concepts • Discussion on best practices in marine risk protection • Preparation for final examination

Methods and Techniques used in the Course

Lectures and Theoretical Instruction

- Core concepts of insurance, marine insurance policies, H&M insurance, P&I Club coverage, and legal frameworks.
- Use of slides, charts, and diagrams to illustrate policy structures and risk assessment.

Case Studies and Scenario Analysis

- Analysis of real-world marine insurance claims, disputes, and risk management examples.
- Lessons learned from historical and contemporary shipping incidents.

Practical Exercises and Simulations

- Risk assessment exercises for Hull, Machinery, and P&I insurance.
- Role-playing exercises simulating claims negotiation with insurers and P&I clubs.

Class Discussions and Group Work

- Discussion of insurance principles, operational risks, and emerging trends.
- Collaborative analysis of insurance coverage, exclusions, and claim resolution strategies.

Documentation and Communication Exercises

- Preparation and interpretation of insurance documentation, endorsements, and adjustments.
- Simulated communication with insurers, brokers, and shipping companies.

Industry Reports and Reference Materials

- Review of marine insurance policies, regulatory frameworks, and risk management guidelines.
- Study of international conventions and P&I Club publications.

Assignments and Independent Study

- Analysis of claims, policy clauses, and risk management strategies.
- Research on emerging trends such as cyber risks, environmental regulations, and modern insurance solutions.

Sample Questions

- Define marine insurance and explain its importance in shipping operations.
- Differentiate between general insurance and marine insurance, highlighting their scope and application.
- Describe the key components of a marine insurance policy and the obligations of the insured and insurer.
- Explain the coverage, scope, and risk assessment methods used in Hull and Machinery (H&M) insurance.
- Outline the purpose, coverage, and claims handling procedures of Protection & Indemnity (P&I) Club insurance.
- Identify and discuss the main risks associated with ship operations and the role of marine insurance in mitigating them.
- Explain the legal frameworks and international conventions governing marine insurance, and their relevance to shipowners.
- Describe the process of marine insurance documentation, including policy issuance, endorsements, and adjustments.
- Analyze a historical or recent marine insurance claim and explain the lessons learned for risk prevention and claims management.
- Discuss emerging trends in marine insurance, including technology, environmental regulations, and cyber risks, and their impact on shipping risk management.

Materials Used in the Course

Primary Textbooks

- **Spencer, Michael** – *Marine Insurance: Law and Practice*, 3rd Edition, LLP, 2017.
- **BIMCO** – *Marine Insurance Clauses & Forms*, BIMCO Publications, latest edition.
- **Merkin, Robert** – *Marine Insurance: Law and Practice*, 2nd Edition, Routledge, 2011.

Recommended References

- **Bennett, Peter** – *Marine Insurance: Principles and Practice*, 2nd Edition, Informa Law, 2018.
- **Hoyle, Charles** – *P&I Clubs: A Guide to Protection & Indemnity Insurance*, Informa, 2019.
- **UNCTAD & IMO Reports** – Review of maritime transport and risk management practices.

Supplementary Learning Materials

- **Case Studies**
  - Real-world marine insurance claims, Hull & Machinery, and P&I disputes.
- **Practical Exercises**
  - Risk assessment simulations, claims preparation, and policy evaluation exercises.
- **Industry Guidelines and Publications**
  - IMO conventions, classification society guidance, and P&I Club manuals.
- **Academic Journals**
  - *Journal of Maritime Law & Commerce*, *Marine Policy*, *Lloyd's Maritime and Commercial Law Quarterly*.

All the above listed books are available at UoK's Grand Library

Program Outcomes Matrix

	Program Outcomes	*Level of Contribution				Targeted Competence Areas
		0	1	2	3	
1	Demonstrate fundamental knowledge of maritime business, shipping operations, port management, and international logistics.				✓	Maritime Business & Operations
2	Apply principles of management, economics, and finance to ship operations, chartering, brokerage, and maritime organizational decision-making.				✓	Maritime Economics & Management
3	Understand and interpret international maritime law, conventions, and trade regulations including SOLAS, MARPOL, UNCLOS, and INCOTERMS.				✓	Maritime Law & Policy
4	Plan and manage port and terminal operations efficiently, considering cargo handling systems, port logistics, and intermodal transport networks.				✓	Port & Terminal Operations Management
5	Employ digital tools and data-driven approaches in ship management, fleet performance monitoring, and maritime logistics systems.				✓	Digital Maritime Operations
6	Integrate sustainability, environmental protection, and decarbonization principles into maritime and logistics operations in line with IMO GHG strategy.			✓		Sustainability & Green Shipping
7	Demonstrate competence in maritime risk assessment, safety management systems (ISM Code), and crisis response in ship and shore-based contexts.			✓		Safety & Risk Management
8	Exhibit leadership, teamwork, and communication skills necessary for multicultural and interdisciplinary maritime organizations.				✓	Leadership & Intercultural Communication
9	Apply marketing, logistics, and supply chain strategies to global shipping and maritime transport sectors.				✓	Global Logistics & Supply Chain Management
10	Prepare and analyze charter parties, bills of lading, and other shipping documents while managing cargo claims and marine insurance issues.				✓	Maritime Documentation & Insurance
11	Utilize effective business English and Maritime English for negotiation, correspondence, and documentation within international maritime contexts.			✓		Maritime Communication & Professional English
12	Demonstrate ethical awareness, corporate responsibility, and adherence to international professional standards in maritime and logistics management.			✓		Ethics & Corporate Responsibility
13	Develop research skills and analytical thinking to identify, evaluate, and solve complex problems in maritime transport and logistics systems.			✓		Analytical Thinking & Research Skills
14	Adapt to innovations such as digitalization, automation, and smart shipping technologies through continuous professional development.				✓	Innovation & Lifelong Learning
15	Apply entrepreneurship and strategic management principles to establish or develop maritime-related enterprises in a competitive global environment.			✓		Entrepreneurship & Strategic Management

***0:** No Contribution **1:** Little Contribution **2:** Partial Contribution **3:** Full Contribution

Program Outcomes /Course Learning Outcomes Matrix **Level of Contribution**:**0**-No Contribution **1**-Little Contribution **2**-Partial Contribution **3**-Full Contribution										
	LO1	**LO2**	**LO3**	**LO4**	**LO5**	**LO6**	**LO7**	**LO8**	**LO9**	**L10**
PO1	3	3	2	2	2	1	3	2	2	2
PO2	3	3	3	2	2	1	2	1	2	1
PO3	2	3	1	3	3	2	1	3	1	1
PO4	2	2	1	2	3	3	2	2	2	2
PO5	1	2	2	1	1	2	2	2	3	3
PO6	1	2	1	2	1	1	2	3	2	2
PO7	1	1	1	1	1	3	2	2	3	3
PO8	1	1	3	1	1	1	2	1	2	1
PO9	1	1	2	1	1	1	1	1	2	2
PO10	2	2	1	2	3	3	2	2	2	2
PO11	1	2	2	1	1	2	2	2	3	3
PO12	1	2	1	2	1	1	2	3	2	2
PO13	3	3	3	2	2	1	2	1	2	1
PO14	2	3	1	3	3	2	1	3	2	2
PO15	1	2	1	2	2	3	2	2	3	3

Course Learning Outcomes/ Evaluation Method		
Course Learning Outcomes (CLOs)	**Teaching Method**	**Assessment Method**
LO1. Explain the principles and importance of marine insurance in shipping operations.	Lectures, Case Studies	Quizzes, Assignments
LO2. Differentiate between general and marine insurance and their applications.	Lectures, Discussions	Quizzes, Assignments
LO3. Analyze marine insurance policies, key clauses, and obligations of the insured and insurer.	Lectures, Practical Exercises	Assignments, Case Study Reports
LO4. Evaluate the scope, coverage, and risk assessment methods of Hull and Machinery (H&M) insurance.	Practical Exercises, Demonstrations	Assignments, Practical Reports
LO5. Assess the purpose, coverage, and claims handling procedures of Protection & Indemnity (P&I) insurance.	Lectures, Case Studies	Assignments, Case Study Reports
LO6. Identify, assess, and mitigate operational and financial risks in shipping using insurance.	Lectures, Simulations	Practical Exercises, Assignments
LO7. Interpret the legal frameworks governing marine insurance, including international conventions and national laws.	Lectures, Case Studies	Quizzes, Assignments
LO8. Apply procedures for insurance documentation, endorsements, and communication with insurers and brokers.	Practical Exercises, Demonstrations	Assignments, Practical Reports
LO9. Analyze historical and contemporary marine insurance claims to draw lessons for risk management.	Case Studies, Discussions	Assignments, Case Study Reports
LO10. Evaluate emerging trends in marine insurance, including technological, environmental, and cyber risks.	Lectures, Discussions	Assignments, Participation, Final Exam

ECTS / Workload Table			
Activities	**Number**	**Duration (Hours)**	**Total Workload**
Preparation for lectures	-	-	-
Lectures	**15**	**3**	**45**
Midterm Exam	**1**	**2**	**2**
Preparation for Midterm Exam	**1**	**15**	**15**
Final Exam	**1**	**2**	**2**
Preparation for Final Exam	**1**	**15**	**15**
Presentation(s)	-	-	-
Preparation for Presentation(s)	-	-	-
Research for Project(s)/Essay(s)	-	-	-
Project Writing	-	-	-
Group Work	-	-	-
In-class Discussion(s)	**15**	**2**	**30**
Quiz(es)	-	-	-
Preparation for Quiz(es)	-	-	-
Laboratory	-	-	-
Assignment(s)/Homework/Class Works	**1**	**15**	**15**
Micro-Teaching Sessions	-	-	-
Lesson Planning	-	-	-
Materials Adaptation	-	-	-
Material Development	-	-	-
Draft Preparation	-	-	-
Drawing	-	-	-
Essay Writing	-	-	-
Tutorial(s)	-	-	-
Portfolio Preparation	-	-	-
Portfolio Presentation	-	-	-
Total Workload			**124**
ECTS Credit			**4**

Evaluation System		
Semester Requirements	**Number**	**Percentage of Grade**
Attendance/Participation	15	10
Laboratory	-	-
Application	-	-
Field Work	-	-
Special Course Internship (Work Placement)	-	-
Homework/Assignments	1	10
Providing reliability and motivation of the individual homework completion and Submission	-	-
Presentation/Jury	-	-
Project	-	-
Quiz	-	-
Midterms/Oral Exams	1	30
Final/Oral Exams	1	50
Total	**4**	**100**

	Percentage	**Course Grade**	**Coefficient**
Grading Policy	90-100	AA	4.0
	85-89	BA	3.5
	80-84	BB	3.0
	75-79	CB	2.5
	70-74	CC	2.0
	60-69	DC	1.5
	50-59	DD	1.0
	49 and below	FF	0.0
	Less than 70% attendance	NA	-
Course Requirements and Policies	• Alerted attendance at the lectures is essential! • Students are expected to check frequently the instructor's web page for the course announcements. • University of Kyrenia honor code will be strictly enforced regarding any issues concerning cheating.		

University of Kyrenia

Faculty of Maritime Studies

Maritime Management

Syllabus

Course name: Ship Management							
Code	**Year**	**Semester**	**Credit**	**ECTS**	**Course application, Hour/Week**		
					Theoretical	**Application**	**Laboratory**
MMD308	III	Spring	4	4	3	2	0
Course type: Compulsory				**Prerequisite: x**		**Language:** English	
% Contribution to the Professional Fundamental Component				**Basic Sciences**	**Engineering Science**	**Engineering Design**	**General Education**
				-	-	-	100
Course Venue and Time				Wednesday / 13:30 – 16:20			
Instructor information				**Assist. Prof. Dr. Pınar Sharghi** Faculty of Maritime Studies Wednesday / 09:00 - 12:00 +90 (392) 650 26 00 / 4120 pinar.sharghi@kyrenia.edu.tr www.kyrenia.edu.tr			

Course Description	*Ship Management* provides a comprehensive study of the organizational, operational, technical, and commercial aspects of managing ships and shipping companies. The course covers the historical development of ship management, the external environment affecting shipping companies, and the internal processes and organizational structures required for effective operation. Students will learn about departmentalization, human resources management, crew management, technical management, operational and commercial management, and the implementation of the ISM Code. The course also examines ship management contracts, including BIMCO Shipman 98, and the outsourcing of ship management functions. Through case studies, practical examples, and industry-based exercises, students will acquire the knowledge and skills required to manage ships and shipping operations efficiently, ensuring regulatory compliance, operational effectiveness, and commercial success.
Course Aims and Objectives	The primary aim of *Ship Management* is to provide students with a thorough understanding of the organizational, operational, technical, and commercial aspects of managing ships and shipping companies. The course emphasizes both theoretical knowledge and practical skills to prepare students for professional roles in ship management. • Introduce the concept and role of shipping companies in the maritime industry. • Examine the historical development and evolution of ship management practices. • Analyze the external environment affecting shipping companies, including economic, regulatory, and technological factors. • Explain the processes and organizational structures of shipping companies. • Explore contextual factors that influence organizational design and departmentalization. • Develop understanding of human resources management in shipping, including recruitment, training, and welfare of crew and shore staff. • Explain technical management practices, including maintenance, safety, and compliance with the ISM Code. • Study crew management, including certification, scheduling, and welfare management. • Examine operational and commercial management functions, including voyage planning, cargo operations, chartering, and cost control. • Understand ship management contracts, including BIMCO Shipman 98, and the outsourcing of ship management functions.

Course Learning Outcomes	**LO1.** Explain the role and functions of shipping companies in the global maritime industry. **LO2.** Describe the historical development and evolution of ship management practices. **LO3.** Analyze the external environment affecting shipping companies, including economic, regulatory, and technological factors. **LO4.** Explain the internal processes and organizational structure of a shipping company. **LO5.** Evaluate contextual factors influencing organizational design and departmentalization. **LO6.** Apply principles of human resources management in shipping, including recruitment, training, and crew welfare. **LO7.** Manage technical aspects of ship management, including maintenance, safety, and compliance with the ISM Code. **LO8.** Plan and implement crew management strategies, including certification, scheduling, and welfare considerations. **LO9.** Apply operational and commercial management practices, including voyage planning, cargo operations, and chartering. **LO10.** Understand ship management contracts (BIMCO Shipman 98) and the outsourcing of ship management functions.

Content of the Course

Week	*Subject*
1	**Introduction to Shipping Companies** • Definition and role of a shipping company • Functions and significance in global maritime operations
2	**Historical Development of Ship Management** • Evolution of ship management practices • Key milestones and technological developments affecting management
3	**External Environment of Shipping Companies** • Market dynamics, competition, and regulatory environment • Economic, political, and technological factors influencing ship management
4	**The Process of a Shipping Company** • Core processes: operations, commercial, technical, and crew management • Integration of processes to achieve organizational goals
5	**Organization of a Shipping Company** • Structure of shipping companies: centralized vs decentralized • Management levels and reporting lines
6	**Contextual Factors of Organizational Structure** • Factors affecting organizational design: size, fleet type, geography • Flexibility and adaptability in organizational structure
7	**Departmentalization in Shipping Companies** • Operational, technical, commercial, and administrative departments • Roles, responsibilities, and inter-department coordination
8	**Human Resources Management in Shipping Companies** • Recruitment, training, and retention of crew and shore staff • Performance management, labor regulations, and welfare considerations
9	**Technical Management of Ships** • Maintenance, safety, and compliance with international regulations • ISM Code implementation and quality management systems
10	**Crew Management** • Crew recruitment, certification, training, and scheduling

	• Crewing policies and welfare management
11	**Operational Management** • Voyage planning, cargo operations, and fleet optimization • Coordination between ship and shore operations
12	**Commercial Management** • Chartering, freight negotiations, and commercial strategies • Revenue optimization and cost control
13	**Ship Management Contracts** • BIMCO Shipman 98 contract overview • Rights, responsibilities, and liabilities of ship managers and owners
14	**Outsourcing of Ship Management** • Reasons for outsourcing technical, crew, or operational management • Selection of third-party ship management companies • Risk management and performance monitoring
15	**Course Review and Final Exam** • Comprehensive review of all topics • Discussion of case studies and practical ship management scenarios • **FINAL EXAM**

Methods and Techniques used in the Course

Lectures and Theoretical Instruction

- Presentation of core concepts such as shipping company functions, organizational structures, and management processes.
- Use of slides, diagrams, and visual aids to illustrate ship management operations.

Case Studies and Scenario Analysis

- Real-world examples of shipping company operations, departmental coordination, and decision-making processes.
- Analysis of technical, operational, and commercial management challenges.

Practical Exercises

- Application of human resources management principles in shipping.
- Exercises on voyage planning, cargo operations, and fleet management.

Class Discussions and Interactive Sessions

- Discussions on organizational design, outsourcing, and risk management in ship management.
- Problem-solving exercises and group discussions of operational and commercial scenarios.

Industry Reports and Reference Materials

- Analysis of shipping market reports, BIMCO contracts, and ISM Code implementation guidelines.
- Review of regulatory frameworks and maritime conventions affecting ship management.

Group Projects and Presentations

- Collaborative projects simulating ship management decisions and organizational operations.
- Presentation of solutions and discussion of best practices in shipping company management.

Simulation-Based Learning (if available)

- Digital platforms to simulate crew scheduling, technical maintenance planning, and operational management.

Assignments and Independent Study

- Weekly exercises and reading assignments to reinforce lecture content.
- Research on technical, operational, and commercial aspects of ship management.

Sample Questions

- **Define a shipping company** and explain its key functions in global maritime operations.
- **Discuss the historical development of ship management.**
  How have technological and regulatory changes influenced modern ship management practices?
- **Explain the external environment of a shipping company.**
  Identify economic, political, and technological factors that impact operations.
- **Describe the core processes of a shipping company.**
  How do operational, commercial, technical, and crew management processes integrate?
- **Compare centralized and decentralized organizational structures** in shipping companies. What are the advantages and disadvantages of each?
- **Explain the concept of departmentalization** in shipping companies. Describe the main departments and their responsibilities.
- **Discuss human resources management in shipping companies.**
  Include recruitment, training, certification, and welfare of crew and shore staff.
- **Explain technical management practices** including maintenance, safety, and ISM Code compliance.
- **Describe the operational and commercial management functions** of a shipping company. Include voyage planning, cargo operations, chartering, and cost control.
- **Outline the main provisions of BIMCO Shipman 98 contracts.**
  Discuss the rights and responsibilities of ship managers and owners.
- **Explain the reasons and challenges for outsourcing ship management functions.**

Materials Used in the Course

Primary Textbooks

- **Stopford, Martin** – *Maritime Economics*, 2nd Edition, Routledge, 2009.
- **Branch, Alan E.** – *Elements of Shipping*, 9th Edition, Routledge, 2021.
- **BIMCO** – *Shipman 98: Ship Management Contract*, BIMCO Publications, 1998.

Recommended References

- **Grammenos, Costas (Ed.)** – *The Handbook of Maritime Economics and Business*, 2nd Edition, Routledge, 2010.
- **Stopford, Martin** – *Maritime Logistics: A Guide to Contemporary Shipping and Port Management*, Routledge, 2020.
- **IMO Publications** – ISM Code and related guidelines for ship safety and management compliance.
- **Clarksons Research Reports**

Supplementary Learning Materials

- **Case Studies**
- **Practical Exercises**
- **Industry Reports and Guidelines**
- **Academic Journals**

All the above listed books are available at UoK's Grand Library

Program Outcomes Matrix

	Program Outcomes	*Level of Contribution				Targeted Competence Areas
		0	1	2	3	
1	Demonstrate fundamental knowledge of maritime business, shipping operations, port management, and international logistics.				✓	Maritime Business & Operations
2	Apply principles of management, economics, and finance to ship operations, chartering, brokerage, and maritime organizational decision-making.				✓	Maritime Economics & Management
3	Understand and interpret international maritime law, conventions, and trade regulations including SOLAS, MARPOL, UNCLOS, and INCOTERMS.				✓	Maritime Law & Policy
4	Plan and manage port and terminal operations efficiently, considering cargo handling systems, port logistics, and intermodal transport networks.				✓	Port & Terminal Operations Management
5	Employ digital tools and data-driven approaches in ship management, fleet performance monitoring, and maritime logistics systems.				✓	Digital Maritime Operations
6	Integrate sustainability, environmental protection, and decarbonization principles into maritime and logistics operations in line with IMO GHG strategy.			✓		Sustainability & Green Shipping
7	Demonstrate competence in maritime risk assessment, safety management systems (ISM Code), and crisis response in ship and shore-based contexts.			✓		Safety & Risk Management
8	Exhibit leadership, teamwork, and communication skills necessary for multicultural and interdisciplinary maritime organizations.				✓	Leadership & Intercultural Communication
9	Apply marketing, logistics, and supply chain strategies to global shipping and maritime transport sectors.				✓	Global Logistics & Supply Chain Management
10	Prepare and analyze charter parties, bills of lading, and other shipping documents while managing cargo claims and marine insurance issues.				✓	Maritime Documentation & Insurance
11	Utilize effective business English and Maritime English for negotiation, correspondence, and documentation within international maritime contexts.			✓		Maritime Communication & Professional English
12	Demonstrate ethical awareness, corporate responsibility, and adherence to international professional standards in maritime and logistics management.			✓		Ethics & Corporate Responsibility
13	Develop research skills and analytical thinking to identify, evaluate, and solve complex problems in maritime transport and logistics systems.			✓		Analytical Thinking & Research Skills
14	Adapt to innovations such as digitalization, automation, and smart shipping technologies through continuous professional development.				✓	Innovation & Lifelong Learning
15	Apply entrepreneurship and strategic management principles to establish or develop maritime-related enterprises in a competitive global environment.			✓		Entrepreneurship & Strategic Management

***0:** No Contribution **1:** Little Contribution **2:** Partial Contribution **3:** Full Contribution

Program Outcomes /Course Learning Outcomes Matrix **Level of Contribution**:**0**-No Contribution **1**-Little Contribution **2**-Partial Contribution **3**-Full Contribution										
	LO1	**LO2**	**LO3**	**LO4**	**LO5**	**LO6**	**LO7**	**LO8**	**LO9**	**L10**
PO1	3	3	2	2	2	1	3	2	2	2
PO2	3	3	3	2	2	1	2	1	2	1
PO3	2	3	1	3	3	2	1	3	1	1
PO4	2	2	1	2	3	3	2	2	2	2
PO5	1	2	2	1	1	2	2	2	3	3
PO6	1	2	1	2	1	1	2	3	2	2
PO7	1	1	1	1	1	3	2	2	3	3
PO8	1	1	3	1	1	1	2	1	2	1
PO9	1	1	2	1	1	1	1	1	2	2
PO10	2	2	1	2	3	3	2	2	2	2
PO11	1	2	2	1	1	2	2	2	3	3
PO12	1	2	1	2	1	1	2	3	2	2
PO13	3	3	3	2	2	1	2	1	2	1
PO14	2	3	1	3	3	2	1	3	2	2
PO15	1	2	1	2	2	3	2	2	3	3

Course Learning Outcomes/ Evaluation Method		
Course Learning Outcomes (CLOs)	**Teaching Method**	**Assessment Method**
LO1. Explain the role and functions of shipping companies in global maritime operations.	Lectures, Case Studies	Quizzes, Midterm Exam
LO2. Describe the historical development and evolution of ship management practices.	Lectures, Discussions	Assignments, Quizzes
LO3. Analyze the external environment affecting shipping companies, including economic, regulatory, and technological factors.	Lectures, Case Studies	Case Study Analysis, Midterm Exam
LO4. Explain the internal processes and organizational structure of a shipping company.	Lectures, Visual Aids	Assignments, Quizzes
LO5. Evaluate contextual factors influencing organizational design and departmentalization.	Lectures, Group Discussions	Assignments, Participation
LO6. Apply principles of human resources management in shipping, including recruitment, training, and crew welfare.	Lectures, Practical Exercises	Assignments, Group Project
LO7. Manage technical aspects of ship management, including maintenance, safety, and ISM Code compliance.	Lectures, Case Studies, Simulations	Assignments, Practical Exercises
LO8. Plan and implement crew management strategies, including certification, scheduling, and welfare considerations.	Practical Exercises, Discussions	Assignments, Case Study Reports
LO9. Apply operational and commercial management practices, including voyage planning, cargo operations, and chartering.	Lectures, Problem-Solving Exercises	Assignments, Midterm Exam
LO10. Understand ship management contracts (BIMCO Shipman 98) and the outsourcing of ship management functions.	Lectures, Case Studies	Quizzes, Final Exam

ECTS / Workload Table			
Activities	**Number**	**Duration (Hours)**	**Total Workload**
Preparation for lectures	-	-	-
Lectures	**15**	**3**	**45**
Midterm Exam	**1**	**2**	**2**
Preparation for Midterm Exam	**1**	**15**	**15**
Final Exam	**1**	**2**	**2**
Preparation for Final Exam	**1**	**15**	**15**
Presentation(s)	-	-	-
Preparation for Presentation(s)	-	-	-
Research for Project(s)/Essay(s)	-	-	-
Project Writing	-	-	-
Group Work	-	-	-
In-class Discussion(s)	**15**	**2**	**30**
Quiz(es)	-	-	-
Preparation for Quiz(es)	-	-	-
Laboratory	-	-	-
Assignment(s)/Homework/Class Works	**1**	**15**	**15**
Micro-Teaching Sessions	-	-	-
Lesson Planning	-	-	-
Materials Adaptation	-	-	-
Material Development	-	-	-
Draft Preparation	-	-	-
Drawing	-	-	-
Essay Writing	-	-	-
Tutorial(s)	-	-	-
Portfolio Preparation	-	-	-
Portfolio Presentation	-	-	-
Total Workload			**124**
ECTS Credit			**4**

Evaluation System		
Semester Requirements	**Number**	**Percentage of Grade**
Attendance/Participation	15	10
Laboratory	-	-
Application	-	-
Field Work	-	-
Special Course Internship (Work Placement)	-	-
Homework/Assignments	1	10
Providing reliability and motivation of the individual homework completion and Submission	-	-
Presentation/Jury	-	-
Project	-	-
Quiz	-	-
Midterms/Oral Exams	1	30
Final/Oral Exams	1	50
Total	**4**	**100**

	Percentage	**Course Grade**	**Coefficient**
Grading Policy	90-100	AA	4.0
	85-89	BA	3.5
	80-84	BB	3.0
	75-79	CB	2.5
	70-74	CC	2.0
	60-69	DC	1.5
	50-59	DD	1.0
	49 and below	FF	0.0
	Less than 70% attendance	NA	-
Course Requirements and Policies	• Alerted attendance at the lectures is essential! • Students are expected to check frequently the instructor's web page for the course announcements. • University of Kyrenia honor code will be strictly enforced regarding any issues concerning cheating.		

University of Kyrenia

Faculty of Maritime Studies

Maritime Management

Syllabus

Course name: Digitalization in Maritime Business							
Code	**Year**	**Semester**	**Credit**	**ECTS**	**Course application, Hour/Week**		
					Theoretical	**Application**	**Laboratory**
MMD310	III	Spring	3	3	3	0	0
Course type: Compulsory Elective				**Prerequisite: x**		**Language:** English	
% Contribution to the Professional Fundamental Component				**Basic Sciences**	**Engineering Science**	**Engineering Design**	**General Education**
				-	-	-	100
Course Venue and Time				Tuesday / 13:30 – 16:20			
Instructor information				**Dr. Gökhan Tarı** Faculty of Maritime Studies Wednesday / 09:00 – 12:00 +90 (392) 650 26 00 / 4040 gokhan.tari@kyrenia.edu.tr www.kyrenia.edu.tr			

Course Description	*Digitalization in Maritime Business* explores the transformative impact of digital technologies on the maritime industry, including shipping, ports, logistics, and maritime management. The course covers emerging technologies such as Internet of Things (IoT), blockchain, digital twins, automation, big data analytics, and smart ports, and examines their applications in operational efficiency, risk management, and sustainability. Students will gain an understanding of digital platforms for ship operations, freight and chartering management, e-documentation, and port community systems, alongside cybersecurity and regulatory considerations. Through case studies, practical exercises, and project-based learning, the course prepares students to integrate digital solutions effectively into maritime operations and strategic decision-making.
Course Aims and Objectives	The aim of *Digitalization in Maritime Business* is to equip students with the knowledge, skills, and practical understanding needed to leverage digital technologies in maritime operations, shipping management, and port logistics. The course emphasizes how digitalization enhances efficiency, safety, sustainability, and competitiveness in the maritime sector. • Introduce the concept of digitalization and its relevance to the maritime industry. • Explain the integration of digital technologies in shipping operations, ports, and logistics networks. • Examine the use of digital platforms, e-documentation, and maritime information systems for operational efficiency. • Analyze emerging technologies such as IoT, blockchain, digital twins, and big data analytics in maritime business. • Develop an understanding of cybersecurity risks and mitigation strategies in digital maritime operations. • Explore digital solutions for sustainability, environmental monitoring, and regulatory compliance. • Apply digital tools to improve decision-making, performance monitoring, and resource optimization.

	• Review case studies and best practices in maritime digitalization for practical insights. • Promote critical thinking about challenges, risks, and opportunities of implementing digital solutions. • Prepare students to plan, manage, and optimize digital initiatives in maritime organizations.
Course Learning Outcomes	**LO1.** Explain the concept and scope of digitalization in the maritime industry and its strategic importance. **LO2.** Analyze the integration of digital technologies in shipping operations, ports, and logistics networks. **LO3.** Evaluate the use of digital platforms, e-documentation, and maritime information systems for operational efficiency. **LO4.** Apply emerging technologies such as IoT, blockchain, digital twins, and big data analytics in maritime business contexts. **LO5.** Identify cybersecurity risks and implement mitigation strategies in digital maritime operations. **LO6.** Assess digital solutions for sustainability, environmental monitoring, and regulatory compliance in shipping and port operations. **LO7.** Utilize digital tools for decision-making, performance monitoring, and optimization of maritime resources. **LO8.** Examine real-world case studies to derive best practices and lessons from maritime digitalization initiatives. **LO9.** Critically evaluate challenges, risks, and opportunities associated with implementing digital technologies in maritime operations. **LO10.** Design and propose digital initiatives or strategies to improve efficiency, safety, and competitiveness in maritime organizations.

Content of the Course

Week	*Subject*
1	**Introduction to Digitalization in Maritime Industry** • Definition and scope of digitalization in maritime business • Importance and drivers of digital transformation in shipping • Key stakeholders and digital adoption in the maritime sector
2	**Overview of Maritime Business and Technology Trends** • Maritime industry structure and operations • Global shipping trends and market dynamics • Emerging technologies in maritime transport and logistics
3	**Digital Supply Chains in Maritime Operations** • Integration of shipping, ports, and logistics through digital platforms • Role of data analytics in supply chain optimization • Examples of digital maritime supply chain management
4	**Port Digitalization and Smart Ports** • Concept of smart ports and digital terminals • Port Community Systems (PCS) and terminal operating systems (TOS) • Automation, IoT, and sensors in port operations
5	**Ship Digitalization and Smart Shipping** • Digital ship operations and integrated bridge systems • Use of sensors, IoT devices, and predictive maintenance • Energy efficiency monitoring and operational analytics
6	**E-Documentation and Digital Communication** • Electronic bills of lading (e-B/L) and shipping documents • Digital communication between ship, port, and agents • Legal and regulatory frameworks for digital documentation
7	**Maritime Information Systems and Software Platforms** • ERP systems, fleet management software, and navigation software • Decision support systems for shipowners and operators • Data management and cloud computing applications
8	**Digitalization in Freight and Chartering Operations** • Digital freight booking platforms and online marketplaces • Digital contract management and e-chartering • Tracking and monitoring cargo movements digitally
9	**Cybersecurity in Maritime Business** • Cyber threats in shipping, ports, and logistics • Risk assessment and cybersecurity frameworks • Best practices for secure digital operations
10	**Data Analytics and Performance Optimization** • Big data and analytics in shipping and port operations

	• KPI monitoring, predictive analytics, and operational optimization • Decision-making based on real-time and historical data
11	**Blockchain and Maritime Transactions** • Introduction to blockchain technology in shipping • Applications in smart contracts, cargo tracking, and payments • Case studies of blockchain adoption in maritime trade
12	**Digital Twin and Simulation Technologies** • Concept of digital twins in ship and port operations • Simulation for voyage planning, port logistics, and risk analysis • Use of VR/AR in maritime training and operational planning
13	**Sustainability and Digital Solutions** • Digital tools for environmental monitoring and emissions reporting • Green shipping initiatives and energy efficiency digital solutions • Regulatory compliance through digital platforms
14	**Case Studies in Maritime Digitalization** • Analysis of successful digitalization projects in shipping and ports • Lessons learned and best practices for industry adoption • Group discussion on challenges and opportunities
15	**Course Review and Final Assessment** • Summary of key topics and learning outcomes • Group presentations of digitalization projects • **Final Exam**

Methods and Techniques used in the Course

Lectures and Theoretical Instruction

- Core concepts of digitalization, smart ports, e-documentation, and digital shipping operations.
- Use of slides, diagrams, and videos to illustrate technologies and processes.

Case Studies and Industry Examples

- Analysis of real-world digitalization projects in shipping companies, ports, and logistics networks.
- Lessons learned from successful and failed digital initiatives.

Practical Exercises and Simulations

- Hands-on exercises with maritime software, terminal operating systems, and digital monitoring tools.
- Simulation of ship operations, cargo tracking, and port logistics using digital platforms.

Class Discussions and Group Work

- Interactive discussions on digital challenges, regulatory considerations, and emerging trends.
- Group projects analyzing digital strategies and proposing innovative solutions.

Demonstrations and Technology Showcases

- Demonstration of IoT devices, blockchain applications, digital twins, and data analytics tools.
- Exposure to digital platforms for freight management, e-documentation, and fleet monitoring.

Assignments and Independent Research

- Research on digital trends, case studies, and emerging maritime technologies.
- Development of project reports, strategic plans, and operational improvement proposals.

Guest Lectures and Industry Insights

- Presentations by professionals from shipping companies, ports, and maritime IT providers.
- Insights into practical implementation, operational challenges, and digital innovation strategies.

Sample Questions

- Define digitalization in the maritime industry and explain its significance for shipping and port operations.
- Discuss how digital technologies can improve efficiency and safety in maritime supply chains.
- Explain the role of smart ports and digital terminals in modern port operations.
- Compare and contrast intermodal and multimodal transport systems, highlighting how digitalization supports their integration.
- Describe the use of IoT, sensors, and digital twins in ship operations and predictive maintenance.
- Analyze the benefits and challenges of implementing blockchain technology in shipping documentation and chartering.
- Discuss cybersecurity risks in digital maritime operations and propose mitigation strategies.
- Explain how big data analytics can be applied to optimize vessel performance, cargo tracking, and logistics decisions.
- Evaluate digital solutions for sustainability, including energy efficiency monitoring, emissions reporting, and regulatory compliance.
- Propose a digital initiative or strategy to enhance operational efficiency, safety, or competitiveness in a maritime organization.

Materials Used in the Course

- **Notteboom, Theo, & Rodrigue, Jean-Paul** – *The Geography of Transport Systems*, 5th Edition, Routledge, 2020.
- **Stopford, Martin** – *Maritime Economics*, 3rd Edition, Routledge, 2009.
- **UNCTAD** – *Review of Maritime Transport*, Annual Reports.

Recommended References

- **BIMCO & ICS** – *Digitalization in Shipping*, Industry Guidelines and Reports.
- **Rodrigue, Jean-Paul, Notteboom, Theo, & Slack, Brian** – *Maritime Transport and Port Management*, Routledge, 2017.
- **IMO** – *Guidelines on Maritime Cyber Risk Management*.
- **Branch, Alan E.** – *Elements of Shipping*, 9th Edition, Routledge, 2021.

Supplementary Learning Materials

- **Case Studies**

Examples of smart ports, e-freight solutions, digital twin applications, and blockchain adoption in maritime trade.

- **Practical Exercises and Simulations**

Hands-on exercises with digital platforms for fleet monitoring, cargo tracking, and port operations.

- **Industry Reports and White Papers**

Reports from shipping companies, port authorities, and maritime technology providers.

- **Academic Journals**

Maritime Policy & Management, *Journal of Shipping and Trade*, *Journal of Transport Geography*.

- **Web-Based Learning Tools**

Interactive modules, software demos, and digital supply chain simulators.

All the above listed books are available at UoK's Grand Library

Program Outcomes Matrix

	Program Outcomes	*Level of Contribution				Targeted Competence Areas
		0	1	2	3	
1	Demonstrate fundamental knowledge of maritime business, shipping operations, port management, and international logistics.				✓	Maritime Business & Operations
2	Apply principles of management, economics, and finance to ship operations, chartering, brokerage, and maritime organizational decision-making.				✓	Maritime Economics & Management
3	Understand and interpret international maritime law, conventions, and trade regulations including SOLAS, MARPOL, UNCLOS, and INCOTERMS.				✓	Maritime Law & Policy
4	Plan and manage port and terminal operations efficiently, considering cargo handling systems, port logistics, and intermodal transport networks.				✓	Port & Terminal Operations Management
5	Employ digital tools and data-driven approaches in ship management, fleet performance monitoring, and maritime logistics systems.				✓	Digital Maritime Operations
6	Integrate sustainability, environmental protection, and decarbonization principles into maritime and logistics operations in line with IMO GHG strategy.			✓		Sustainability & Green Shipping
7	Demonstrate competence in maritime risk assessment, safety management systems (ISM Code), and crisis response in ship and shore-based contexts.			✓		Safety & Risk Management
8	Exhibit leadership, teamwork, and communication skills necessary for multicultural and interdisciplinary maritime organizations.				✓	Leadership & Intercultural Communication
9	Apply marketing, logistics, and supply chain strategies to global shipping and maritime transport sectors.				✓	Global Logistics & Supply Chain Management
10	Prepare and analyze charter parties, bills of lading, and other shipping documents while managing cargo claims and marine insurance issues.				✓	Maritime Documentation & Insurance
11	Utilize effective business English and Maritime English for negotiation, correspondence, and documentation within international maritime contexts.			✓		Maritime Communication & Professional English
12	Demonstrate ethical awareness, corporate responsibility, and adherence to international professional standards in maritime and logistics management.			✓		Ethics & Corporate Responsibility
13	Develop research skills and analytical thinking to identify, evaluate, and solve complex problems in maritime transport and logistics systems.			✓		Analytical Thinking & Research Skills
14	Adapt to innovations such as digitalization, automation, and smart shipping technologies through continuous professional development.				✓	Innovation & Lifelong Learning
15	Apply entrepreneurship and strategic management principles to establish or develop maritime-related enterprises in a competitive global environment.			✓		Entrepreneurship & Strategic Management

***0:** No Contribution **1:** Little Contribution **2:** Partial Contribution **3:** Full Contribution

Program Outcomes /Course Learning Outcomes Matrix **Level of Contribution**:**0**-No Contribution **1**-Little Contribution **2**-Partial Contribution **3**-Full Contribution										
	LO1	**LO2**	**LO3**	**LO4**	**LO5**	**LO6**	**LO7**	**LO8**	**LO9**	**L10**
PO1	3	3	2	2	2	1	3	2	2	2
PO2	3	3	3	2	2	1	2	1	2	1
PO3	2	3	1	3	3	2	1	3	1	1
PO4	2	2	1	2	3	3	2	2	2	2
PO5	1	2	2	1	1	2	2	2	3	3
PO6	1	2	1	2	1	1	2	3	2	2
PO7	1	1	1	1	1	3	2	2	3	3
PO8	1	1	3	1	1	1	2	1	2	1
PO9	1	1	2	1	1	1	1	1	2	2
PO10	2	2	1	2	3	3	2	2	2	2
PO11	1	2	2	1	1	2	2	2	3	3
PO12	1	2	1	2	1	1	2	3	2	2
PO13	3	3	3	2	2	1	2	1	2	1
PO14	2	3	1	3	3	2	1	3	2	2
PO15	1	2	1	2	2	3	2	2	3	3

Course Learning Outcomes/ Evaluation Method		
Course Learning Outcomes (CLOs)	**Teaching Method**	**Assessment Method**
LO1. Explain the concept and scope of digitalization in the maritime industry and its strategic importance.	Lectures, Case Studies	Quizzes, Assignments
LO2. Analyze the integration of digital technologies in shipping operations, ports, and logistics networks.	Lectures, Discussions	Assignments, Case Study Reports
LO3. Evaluate the use of digital platforms, e-documentation, and maritime information systems for operational efficiency.	Practical Exercises, Demonstrations	Practical Reports, Assignments
LO4. Apply emerging technologies such as IoT, blockchain, digital twins, and big data analytics in maritime business contexts.	Lectures, Simulations	Assignments, Practical Exercises
LO5. Identify cybersecurity risks and implement mitigation strategies in digital maritime operations.	Lectures, Case Studies	Quizzes, Assignments
LO6. Assess digital solutions for sustainability, environmental monitoring, and regulatory compliance in shipping and port operations.	Lectures, Discussions	Assignments, Case Study Reports
LO7. Utilize digital tools for decision-making, performance monitoring, and optimization of maritime resources.	Practical Exercises, Group Work	Project Reports, Assignments
LO8. Examine real-world case studies to derive best practices and lessons from maritime digitalization initiatives.	Case Studies, Discussions	Case Study Reports, Participation
LO9. Critically evaluate challenges, risks, and opportunities associated with implementing digital technologies in maritime operations.	Lectures, Group Discussions	Assignments, Participation
LO10. Design and propose digital initiatives or strategies to improve efficiency, safety, and competitiveness in maritime organizations.	Group Projects, Simulations	Project Reports, Final Exam

ECTS / Workload Table			
Activities	**Number**	**Duration (Hours)**	**Total Workload**
Preparation for lectures	-	-	-
Lectures	**15**	**3**	**45**
Midterm Exam	**1**	**2**	**2**
Preparation for Midterm Exam	**1**	**10**	**10**
Final Exam	**1**	**2**	**2**
Preparation for Final Exam	**1**	**10**	**10**
Presentation(s)	-	-	-
Preparation for Presentation(s)	-	-	-
Research for Project(s)/Essay(s)	-	-	-
Project Writing	-	-	-
Group Work	-	-	-
In-class Discussion(s)	**15**	**1**	**15**
Quiz(es)	-	-	-
Preparation for Quiz(es)	-	-	-
Laboratory	-	-	-
Assignment(s)/Homework/Class Works	**1**	**15**	**15**
Micro-Teaching Sessions	-	-	-
Lesson Planning	-	-	-
Materials Adaptation	-	-	-
Material Development	-	-	-
Draft Preparation	-	-	-
Drawing	-	-	-
Essay Writing	-	-	-
Tutorial(s)	-	-	-
Portfolio Preparation	-	-	-
Portfolio Presentation	-	-	-
Total Workload			**99**
ECTS Credit			**3**

Evaluation System		
Semester Requirements	**Number**	**Percentage of Grade**
Attendance/Participation	15	10
Laboratory	-	-
Application	-	-
Field Work	-	-
Special Course Internship (Work Placement)	-	-
Homework/Assignments	1	10
Providing reliability and motivation of the individual homework completion and Submission	-	-
Presentation/Jury	-	-
Project	-	-
Quiz	-	-
Midterms/Oral Exams	1	30
Final/Oral Exams	1	50
Total	**4**	**100**

	Percentage	**Course Grade**	**Coefficient**
Grading Policy	90-100	AA	4.0
	85-89	BA	3.5
	80-84	BB	3.0
	75-79	CB	2.5
	70-74	CC	2.0
	60-69	DC	1.5
	50-59	DD	1.0
	49 and below	FF	0.0
	Less than 70% attendance	NA	-
Course Requirements and Policies	• Alerted attendance at the lectures is essential! • Students are expected to check frequently the instructor's web page for the course announcements. • University of Kyrenia honor code will be strictly enforced regarding any issues concerning cheating.		

University of Kyrenia

Faculty of Maritime Studies

Maritime Management

Syllabus

Course name: International Trade and Custom Procedures							
Code	**Year**	**Semester**	**Credit**	**ECTS**	**Course application, Hour/Week**		
					Theoretical	**Application**	**Laboratory**
MMD312	III	Spring	3	3	3	0	0
Course type: Compulsory Elective				**Prerequisite: x**		**Language:** English	
% Contribution to the Professional Fundamental Component				**Basic Sciences**	**Engineering Science**	**Engineering Design**	**General Education**
				-	-	-	100
Course Venue and Time				Thursday / 08:30 – 11:20			
Instructor information				**Dr. Gökhan Tarı** Faculty of Maritime Studies Wednesday / 09:00 – 12:00 +90 (392) 650 26 00 / 4040 gokhan.tari@kyrenia.edu.tr www.kyrenia.edu.tr			

Course Description	*International Trade and Customs Procedures* provides a comprehensive understanding of global trade operations and the regulatory frameworks governing the movement of goods. The course emphasizes the role of maritime transport in facilitating international commerce and examines key aspects of customs procedures, documentation, and compliance. Students will learn about trade terms (INCOTERMS), shipping documentation, customs clearance, duties, taxes, valuation methods, and the functions of freight forwarders and customs brokers. The course also explores digitalization in customs, trade agreements, risk management, and emerging trends in global trade. Through case studies, practical exercises, and project work, students will develop the skills to navigate international trade processes and ensure compliance in maritime operations.
Course Aims and Objectives	The aim of *International Trade and Customs Procedures* is to equip students with the knowledge and practical skills necessary to navigate global trade operations and comply with international customs regulations, particularly in the context of maritime transport and logistics. • Introduce the principles, scope, and importance of international trade. • Explain the role of maritime transport in global commerce and supply chains. • Examine international commercial terms (INCOTERMS) and their implications for shipping operations. • Develop understanding of shipping documentation, including bills of lading, sea waybills, and letters of credit. • Explain customs procedures, import/export clearance, duties, taxes, and valuation methods. • Analyze trade agreements, regional integration, and their impact on maritime logistics. • Explore the roles and responsibilities of freight forwarders and customs brokers in trade operations. • Examine risk management and compliance frameworks in customs procedures. • Discuss digitalization in customs and integration with port and shipping systems. • Enable students to apply knowledge to practical scenarios, case studies, and maritime trade operations.
	LO1. Explain the fundamentals of international trade and its significance for maritime transport. **LO2.** Analyze the role of shipping in global supply chains and international commerce.

Course Learning Outcomes	**LO3.** Apply international commercial terms (INCOTERMS) in shipping contracts and trade transactions. **LO4.** Prepare and interpret key shipping and trade documentation, including bills of lading, sea waybills, and letters of credit. **LO5.** Explain customs procedures, clearance processes, and compliance requirements for import and export operations. **LO6.** Calculate duties, taxes, and determine the customs value of goods for maritime shipments. **LO7.** Assess the impact of trade agreements, regional integration, and policies on maritime logistics. **LO8.** Evaluate the roles and responsibilities of freight forwarders, shipping agents, and customs brokers. **LO9.** Utilize digital tools and systems for customs documentation, electronic declarations, and port integration. **LO10.** Analyze case studies and apply best practices to ensure compliance and efficiency in international trade operations.

Content of the Course

Week	*Subject*
1	**Introduction to International Trade** • Definition, scope, and importance of international trade • Role of maritime transport in global commerce • Key stakeholders: exporters, importers, freight forwarders, and shipping companies
2	**Global Trade Theories and Policies** • Comparative advantage and trade theories • Trade policies, tariffs, and quotas • Impact on maritime transport and logistics
3	**International Commercial Terms (INCOTERMS)** • Overview of INCOTERMS 2020 • Responsibilities of buyers and sellers • Implications for shipping and port operations
4	**Shipping Documentation in International Trade** • Commercial invoice, packing list, and certificate of origin • Bill of lading, sea waybill, and charter party connections • Letters of credit and banking documentation
5	**Customs Procedures and Regulatory Framework** • Customs authorities and their functions • Import/export clearance procedures • Harmonized System (HS) codes and tariff classification
6	**Export and Import Clearance** • Pre-shipment documentation and compliance • Submission of cargo manifests and declarations • Customs inspections and risk assessment
7	**Duties, Taxes, and Valuation Methods** • Customs duties and excise taxes • Valuation of imported/exported goods • Determination of customs value for shipping operations
8	**Trade Agreements and Regional Integration** • Bilateral and multilateral trade agreements • Free trade areas, customs unions, and common markets • Implications for maritime logistics and port operations
9	**Risk Management and Compliance in Customs** • Customs risk management systems • Compliance audits, penalties, and dispute resolution • Role of freight forwarders and shipping agents in compliance
10	**Role of Freight Forwarders and Customs Brokers**

	• Functions and responsibilities • Documentation management and cargo handling coordination • Interaction with shipping companies and ports
11	**Digitalization in Customs Procedures** • Electronic customs declarations (e-Customs) • Automated cargo clearance systems • Integration with Port Community Systems (PCS) and shipping software
12	**International Shipping and Trade Logistics** • Role of shipping lines in global supply chains • Multimodal transport and containerization • Coordination between customs, ports, and shipping companies
13	**Case Studies in Customs and Trade Compliance** • Examples of successful customs clearance and trade operations • Common challenges and lessons learned • Industry best practices in maritime trade compliance
14	**Emerging Trends in International Trade and Customs** • Trade digitalization, blockchain, and smart documentation • Customs modernization and international standards • Environmental regulations affecting international trade
15	**Course Review and Final Assessment** • Summary of key topics and learning outcomes • Group presentations on customs procedures and trade scenarios • **Final Exam**

Methods and Techniques used in the Course

Lectures and Theoretical Instruction

- Core concepts of international trade, customs regulations, and maritime logistics.
- Use of slides, diagrams, and multimedia to illustrate procedures and frameworks.

Case Studies and Industry Examples

- Analysis of real-world customs clearance, trade compliance, and documentation processes.
- Examination of challenges and best practices in international trade operations.

Practical Exercises and Simulations

- Hands-on exercises in preparing trade and shipping documents (bills of lading, letters of credit, SOF).
- Simulations of import/export clearance and customs procedures.

Class Discussions and Group Work

- Interactive discussions on trade agreements, regulatory compliance, and emerging trends.
- Group projects analyzing trade operations and proposing process improvements.

Demonstrations and Software Applications

- Demonstration of customs software, e-declaration platforms, and port community systems.
- Practical use of digital tools for documentation and shipment tracking.

Assignments and Independent Research

- Research on trade agreements, customs regulations, and international shipping practices.
- Development of reports, workflow analyses, and trade compliance plans.

Guest Lectures and Industry Insights

- Presentations by customs officers, shipping agents, and trade compliance specialists.
- Insights into practical procedures, challenges, and industry trends.

Sample Questions

- Define international trade and explain the role of maritime transport in global commerce.
- Discuss the importance of INCOTERMS in international shipping contracts and trade transactions.
- Explain the purpose and content of key shipping documents such as bills of lading, sea waybills, and letters of credit.
- Describe the customs clearance process for imports and exports, including documentation requirements.
- Explain how duties, taxes, and customs valuation are determined for imported and exported goods.
- Analyze the impact of trade agreements and regional integration on maritime logistics and port operations.
- Discuss the roles and responsibilities of freight forwarders, shipping agents, and customs brokers in international trade.
- Explain how digital tools and electronic customs systems improve efficiency and compliance in trade operations.
- Provide examples of risks and challenges in international trade and describe strategies to ensure compliance.
- Evaluate a case study involving customs clearance or international shipping operations and identify best practices and lessons learned.

Materials Used in the Course

Primary Textbooks

- **Coyle, John J., Langley, C. John, Novack, Robert A., & Gibson, Brian J.** – *Supply Chain Management: A Logistics Perspective*, 11th Edition, Cengage, 2021.
- **Fleming, Stewart, & Dempsey, Paul** – *International Trade and Customs Law*, Routledge, 2019.
- **UNCTAD** – *Review of Maritime Transport*, Annual Reports.

Recommended References

- **World Customs Organization (WCO)** – *Customs Guidelines and Procedures*.
- **Rodrigue, Jean-Paul, Notteboom, Theo, & Slack, Brian** – *Maritime Transport and Port Management*, Routledge, 2017.
- **UNCTAD** – *E-Trade and Customs Facilitation Guidelines*.
- **Branch, Alan E.** – *Elements of Shipping*, 9th Edition, Routledge, 2021.

Supplementary Learning Materials

- **Case Studies**
    - Examples of international trade operations, customs clearance, and compliance scenarios.
- **Practical Exercises and Simulations**
    - Hands-on exercises for preparing shipping documentation, customs declarations, and INCOTERMS applications.
- **Industry Reports and White Papers**
    - Publications from shipping companies, customs authorities, and international trade organizations.
- **Academic Journals**
    - *Maritime Policy & Management*, *Journal of Shipping and Trade*, *Journal of International Trade Law and Policy*.
- **Web-Based Learning Tools**
    - Digital platforms for customs declarations, trade compliance simulations, and port community systems.

All the above listed books are available at UoK's Grand Library

Program Outcomes Matrix

	Program Outcomes	*Level of Contribution				Targeted Competence Areas
		0	1	2	3	
1	Demonstrate fundamental knowledge of maritime business, shipping operations, port management, and international logistics.				✓	Maritime Business & Operations
2	Apply principles of management, economics, and finance to ship operations, chartering, brokerage, and maritime organizational decision-making.				✓	Maritime Economics & Management
3	Understand and interpret international maritime law, conventions, and trade regulations including SOLAS, MARPOL, UNCLOS, and INCOTERMS.				✓	Maritime Law & Policy
4	Plan and manage port and terminal operations efficiently, considering cargo handling systems, port logistics, and intermodal transport networks.				✓	Port & Terminal Operations Management
5	Employ digital tools and data-driven approaches in ship management, fleet performance monitoring, and maritime logistics systems.				✓	Digital Maritime Operations
6	Integrate sustainability, environmental protection, and decarbonization principles into maritime and logistics operations in line with IMO GHG strategy.			✓		Sustainability & Green Shipping
7	Demonstrate competence in maritime risk assessment, safety management systems (ISM Code), and crisis response in ship and shore-based contexts.			✓		Safety & Risk Management
8	Exhibit leadership, teamwork, and communication skills necessary for multicultural and interdisciplinary maritime organizations.				✓	Leadership & Intercultural Communication
9	Apply marketing, logistics, and supply chain strategies to global shipping and maritime transport sectors.				✓	Global Logistics & Supply Chain Management
10	Prepare and analyze charter parties, bills of lading, and other shipping documents while managing cargo claims and marine insurance issues.				✓	Maritime Documentation & Insurance
11	Utilize effective business English and Maritime English for negotiation, correspondence, and documentation within international maritime contexts.			✓		Maritime Communication & Professional English
12	Demonstrate ethical awareness, corporate responsibility, and adherence to international professional standards in maritime and logistics management.			✓		Ethics & Corporate Responsibility
13	Develop research skills and analytical thinking to identify, evaluate, and solve complex problems in maritime transport and logistics systems.			✓		Analytical Thinking & Research Skills
14	Adapt to innovations such as digitalization, automation, and smart shipping technologies through continuous professional development.				✓	Innovation & Lifelong Learning
15	Apply entrepreneurship and strategic management principles to establish or develop maritime-related enterprises in a competitive global environment.			✓		Entrepreneurship & Strategic Management

***0:** No Contribution **1:** Little Contribution **2:** Partial Contribution **3:** Full Contribution

Program Outcomes /Course Learning Outcomes Matrix **Level of Contribution**:**0**-No Contribution **1**-Little Contribution **2**-Partial Contribution **3**-Full Contribution										
	LO1	**LO2**	**LO3**	**LO4**	**LO5**	**LO6**	**LO7**	**LO8**	**LO9**	**L10**
PO1	3	3	2	2	2	1	3	2	2	2
PO2	3	3	3	2	2	1	2	1	2	1
PO3	2	3	1	3	3	2	1	3	1	1
PO4	2	2	1	2	3	3	2	2	2	2
PO5	1	2	2	1	1	2	2	2	3	3
PO6	1	2	1	2	1	1	2	3	2	2
PO7	1	1	1	1	1	3	2	2	3	3
PO8	1	1	3	1	1	1	2	1	2	1
PO9	1	1	2	1	1	1	1	1	2	2
PO10	2	2	1	2	3	3	2	2	2	2
PO11	1	2	2	1	1	2	2	2	3	3
PO12	1	2	1	2	1	1	2	3	2	2
PO13	3	3	3	2	2	1	2	1	2	1
PO14	2	3	1	3	3	2	1	3	2	2
PO15	1	2	1	2	2	3	2	2	3	3

Course Learning Outcomes/ Evaluation Method		
Course Learning Outcomes (CLOs)	**Teaching Method**	**Assessment Method**
LO1. Explain the fundamentals of international trade and its significance for maritime transport.	Lectures, Case Studies	Quizzes, Assignments
LO2. Analyze the role of shipping in global supply chains and international commerce.	Lectures, Discussions	Assignments, Case Study Reports
LO3. Apply international commercial terms (INCOTERMS) in shipping contracts and trade transactions.	Practical Exercises, Demonstrations	Assignments, Quizzes
LO4. Prepare and interpret key shipping and trade documentation, including bills of lading, sea waybills, and letters of credit.	Practical Exercises, Group Work	Practical Reports, Assignments
LO5. Explain customs procedures, clearance processes, and compliance requirements for import and export operations.	Lectures, Case Studies	Assignments, Quizzes
LO6. Calculate duties, taxes, and determine the customs value of goods for maritime shipments.	Practical Exercises, Demonstrations	Assignments, Practical Reports
LO7. Assess the impact of trade agreements, regional integration, and policies on maritime logistics.	Lectures, Discussions	Assignments, Participation
LO8. Evaluate the roles and responsibilities of freight forwarders, shipping agents, and customs brokers.	Lectures, Case Studies	Assignments, Participation
LO9. Utilize digital tools and systems for customs documentation, electronic declarations, and port integration.	Practical Exercises, Demonstrations	Practical Reports, Assignments
LO10. Analyze case studies and apply best practices to ensure compliance and efficiency in international trade operations.	Case Studies, Group Work	Case Study Reports, Final Exam

ECTS / Workload Table			
Activities	**Number**	**Duration (Hours)**	**Total Workload**
Preparation for lectures	-	-	-
Lectures	**15**	**3**	**45**
Midterm Exam	**1**	**2**	**2**
Preparation for Midterm Exam	**1**	**10**	**10**
Final Exam	**1**	**2**	**2**
Preparation for Final Exam	**1**	**10**	**10**
Presentation(s)	-	-	-
Preparation for Presentation(s)	-	-	-
Research for Project(s)/Essay(s)	-	-	-
Project Writing	-	-	-
Group Work	-	-	-
In-class Discussion(s)	**15**	**1**	**15**
Quiz(es)	-	-	-
Preparation for Quiz(es)	-	-	-
Laboratory	-	-	-
Assignment(s)/Homework/Class Works	**1**	**15**	**15**
Micro-Teaching Sessions	-	-	-
Lesson Planning	-	-	-
Materials Adaptation	-	-	-
Material Development	-	-	-
Draft Preparation	-	-	-
Drawing	-	-	-
Essay Writing	-	-	-
Tutorial(s)	-	-	-
Portfolio Preparation	-	-	-
Portfolio Presentation	-	-	-
Total Workload			**99**
ECTS Credit			**3**

Evaluation System		
Semester Requirements	**Number**	**Percentage of Grade**
Attendance/Participation	15	10
Laboratory	-	-
Application	-	-
Field Work	-	-
Special Course Internship (Work Placement)	-	-
Homework/Assignments	1	10
Providing reliability and motivation of the individual homework completion and Submission	-	-
Presentation/Jury	-	-
Project	-	-
Quiz	-	-
Midterms/Oral Exams	1	30
Final/Oral Exams	1	50
Total	**4**	**100**

	Percentage	**Course Grade**	**Coefficient**
Grading Policy	90-100	AA	4.0
	85-89	BA	3.5
	80-84	BB	3.0
	75-79	CB	2.5
	70-74	CC	2.0
	60-69	DC	1.5
	50-59	DD	1.0
	49 and below	FF	0.0
	Less than 70% attendance	NA	-
Course Requirements and Policies	• Alerted attendance at the lectures is essential! • Students are expected to check frequently the instructor's web page for the course announcements. • University of Kyrenia honor code will be strictly enforced regarding any issues concerning cheating.		

University of Kyrenia

Faculty of Maritime Studies

Maritime Management

Syllabus

Course name: Green and Sustainable Logistics							
Code	**Year**	**Semester**	**Credit**	**ECTS**	**Course application, Hour/Week**		
					Theoretical	**Application**	**Laboratory**
MMD314	III	Spring	3	3	3	0	0
Course type: Elective				**Prerequisite: x**		**Language:** English	
% Contribution to the Professional Fundamental Component				**Basic Sciences**	**Engineering Science**	**Engineering Design**	**General Education**
				-	-	-	100
Course Venue and Time				Monday / 08:30 – 11:20			
Instructor information				**Dr. Gökhan Tarı** Faculty of Maritime Studies Wednesday / 09:00 – 12:00 +90 (392) 650 26 00 / 4040 gokhan.tari@kyrenia.edu.tr www.kyrenia.edu.tr			

Course Description	*Green and Sustainable Logistics* introduces students to the principles, strategies, and practices of environmentally responsible logistics and supply chain management in the maritime industry. The course emphasizes reducing the ecological footprint of shipping, port operations, and intermodal transport through energy efficiency, waste management, and adoption of green technologies. Students will explore international environmental regulations, sustainable procurement, and innovative solutions for decarbonization and carbon-neutral shipping. Case studies, practical exercises, and project work enable students to develop skills to implement sustainable logistics practices and contribute to environmentally responsible maritime operations.
Course Aims and Objectives	The aim of *Green and Sustainable Logistics* is to provide students with the knowledge, tools, and practical skills needed to design and manage environmentally responsible logistics and supply chain operations in the maritime sector. • Introduce the concepts and principles of green logistics and sustainable supply chains. • Examine environmental challenges and the ecological impacts of maritime transport and port operations. • Explore international regulations, standards, and conventions related to sustainable shipping and logistics. • Analyze strategies for energy efficiency, emissions reduction, and alternative fuels in maritime operations. • Understand sustainable port operations, terminal management, and eco-friendly infrastructure. • Examine intermodal and multimodal transport solutions for minimizing environmental impacts. • Explore the role of digitalization, smart technologies, and monitoring systems in sustainable logistics. • Discuss waste management, recycling, and circular economy practices in maritime operations. • Evaluate sustainable procurement, green supply chain policies, and corporate social responsibility. • Apply case studies, simulations, and project work to develop practical solutions for green logistics challenges.
	LO1. Explain the fundamental principles and concepts of green and sustainable logistics in maritime operations. **LO2.** Analyze the environmental impacts of shipping, ports, and maritime supply chains.

Course Learning Outcomes	**LO3.** Apply international environmental regulations, standards, and conventions to maritime logistics practices. **LO4.** Evaluate strategies for energy efficiency, emissions reduction, and the use of alternative fuels in shipping operations. **LO5.** Assess sustainable port operations, terminal management, and eco-friendly infrastructure planning. **LO6.** Integrate intermodal and multimodal transport solutions to minimize environmental impact. **LO7.** Utilize digital tools, smart technologies, and monitoring systems to support sustainable logistics. **LO8.** Implement waste management, recycling, and circular economy principles in maritime operations. **LO9.** Examine sustainable procurement policies and green supply chain management practices. **LO10.** Develop practical solutions through case studies and projects to improve environmental performance in maritime logistics.

Content of the Course

Week	*Subject*
1	**Introduction to Sustainable Logistics** • Definition and principles of sustainability in logistics • Importance of green logistics in maritime supply chains • Key drivers: environmental, social, and economic factors
2	**Environmental Challenges in Maritime Transport** • Global environmental impacts of shipping and port operations • Emissions: CO_2, NOx, SOx, particulate matter • Pollution prevention and management
3	**Sustainable Supply Chain Management** • Green supply chain concepts • Lifecycle assessment of logistics activities • Environmental performance indicators
4	**Regulations and International Frameworks** • IMO environmental regulations (MARPOL, Ballast Water Management, Sulphur Cap) • ISO standards related to sustainable logistics • Regional and national regulations
5	**Green Ports and Terminals** • Principles of green port operations • Energy efficiency, renewable energy, and carbon footprint reduction • Best practices and case studies of sustainable port operations
6	**Sustainable Shipping Operations** • Fuel efficiency measures and slow steaming • Hull design, propulsion improvements, and alternative fuels • Operational strategies to reduce environmental impact
7	**Intermodal and Eco-Friendly Transport Systems** • Role of intermodal transport in reducing environmental impact • Rail, road, and short-sea shipping integration • Logistics optimization for emissions reduction
8	**Green Logistics Technologies** • Digitalization and smart technologies for sustainable logistics • IoT, big data analytics, and predictive modeling for efficiency • Monitoring and reporting environmental performance
9	**Waste Management in Ports and Shipping** • Handling hazardous and non-hazardous waste • Recycling and circular economy practices • Waste minimization strategies
10	**Energy Efficiency in Maritime Operations**

	• Energy audits and benchmarking • Energy management systems for ships and terminals • Renewable energy integration in port operations
11	**Sustainable Procurement and Green Supply Chain Policies** • Supplier evaluation and sustainability criteria • Eco-labeling and green certifications • Procurement strategies for environmental compliance
12	**Risk Management and Compliance in Green Logistics** • Environmental risks and liability in maritime operations • Compliance with international and local regulations • Risk assessment and mitigation strategies
13	**Case Studies in Green and Sustainable Logistics** • Best practices from global shipping companies and ports • Lessons from successful environmental initiatives • Analysis of failed attempts and challenges
14	**Emerging Trends in Green Maritime Logistics** • Alternative fuels (LNG, hydrogen, biofuels) • Decarbonization strategies and carbon-neutral shipping • Future technologies for sustainable logistics
15	**Course Review and Final Assessment** • Summary of key concepts and principles • Group presentations on green logistics projects • **Final Exam**

Methods and Techniques used in the Course

Lectures and Theoretical Instruction

- Core concepts of green logistics, sustainable supply chains, and environmental impacts.
- Use of slides, charts, and multimedia to illustrate principles and global practices.

Case Studies and Industry Examples

- Analysis of successful and failed sustainable logistics initiatives in shipping and ports.
- Exploration of environmental management strategies implemented by maritime companies.

Practical Exercises and Simulations

- Exercises on energy efficiency calculations, emissions reduction planning, and eco-friendly logistics solutions.
- Simulation of sustainable terminal operations and green supply chain scenarios.

Class Discussions and Group Work

- Interactive discussions on emerging trends, regulatory compliance, and green innovation.
- Group projects analyzing sustainability challenges and proposing solutions.

Guest Lectures and Industry Insights

- Presentations by port authorities, shipping companies, and environmental specialists.
- Insights into practical applications and best practices in maritime sustainability.

Research and Independent Study

- Assignments on sustainable procurement, green policies, and digitalization in logistics.
- Independent research and reports on environmental performance and compliance.

Use of Digital Tools and Software

- Tools for carbon footprint calculation, environmental monitoring, and supply chain optimization.
- Integration of digital technologies for sustainable logistics planning and reporting.

Sample Questions

- Define green logistics and explain its importance in maritime supply chains.
- Discuss the environmental challenges associated with shipping and port operations.
- Explain the key international regulations and standards governing sustainable maritime logistics.
- Describe strategies for reducing emissions and improving energy efficiency in shipping operations.
- Evaluate the role of green ports and eco-friendly terminal management in sustainable logistics.
- Explain how intermodal and multimodal transport systems contribute to environmental sustainability.
- Discuss the use of digital tools and smart technologies in monitoring and optimizing sustainable logistics operations.
- Explain waste management practices and circular economy principles applied in maritime operations.
- Analyze the role of sustainable procurement policies and green supply chain management in maritime businesses.
- Review a case study of a maritime company implementing sustainable logistics practices and identify lessons learned for industry best practices.

Materials Used in the Course

Primary Textbooks

- **Brandenburg, Marcus, & Govindan, Kannan** – *Green Logistics: Improving the Environmental Sustainability of Logistics*, Springer, 2019.
- **Rodrigue, Jean-Paul, Notteboom, Theo, & Slack, Brian** – *The Geography of Transport Systems*, 5th Edition, Routledge, 2020.
- **World Bank & UNCTAD Reports** – *Maritime Transport and Environmental Sustainability*, 2021.

Recommended References

- **McKinnon, Alan C., Browne, Michael, Whiteing, Andy, & Piecyk, Michał** – *Green Logistics: Improving the Environmental Sustainability of Logistics*, Kogan Page, 2020.
- **IMO (International Maritime Organization)** – *Guidelines for the Development of a Ship Energy Efficiency Management Plan (SEEMP)*.
- **ISO 14001:2015 – Environmental Management Systems**

International standard for implementing and auditing environmental management in organizations.

- **Academic Journals**

Maritime Policy & Management, *Journal of Cleaner Production*, *Journal of Shipping and Trade*.

Supplementary Learning Materials

- **Case Studies**

Global shipping companies and ports implementing sustainable logistics initiatives.

- **Practical Exercises**

Carbon footprint calculation, energy efficiency audits, and waste reduction strategies.

- **Industry Reports and White Papers**

Publications from IMO, WSC, UNCTAD, and environmental NGOs.

- **Web-Based Learning Tools**

Digital platforms for monitoring emissions, environmental reporting, and green supply chain simulation.

- **Videos and Webinars**
- Demonstrations of sustainable port operations, eco-shipping technologies, and industry best practices.

All the above listed books are available at UoK's Grand Library

Program Outcomes Matrix

	Program Outcomes	*Level of Contribution				Targeted Competence Areas
		0	1	2	3	
1	Demonstrate fundamental knowledge of maritime business, shipping operations, port management, and international logistics.				✓	Maritime Business & Operations
2	Apply principles of management, economics, and finance to ship operations, chartering, brokerage, and maritime organizational decision-making.				✓	Maritime Economics & Management
3	Understand and interpret international maritime law, conventions, and trade regulations including SOLAS, MARPOL, UNCLOS, and INCOTERMS.				✓	Maritime Law & Policy
4	Plan and manage port and terminal operations efficiently, considering cargo handling systems, port logistics, and intermodal transport networks.				✓	Port & Terminal Operations Management
5	Employ digital tools and data-driven approaches in ship management, fleet performance monitoring, and maritime logistics systems.				✓	Digital Maritime Operations
6	Integrate sustainability, environmental protection, and decarbonization principles into maritime and logistics operations in line with IMO GHG strategy.			✓		Sustainability & Green Shipping
7	Demonstrate competence in maritime risk assessment, safety management systems (ISM Code), and crisis response in ship and shore-based contexts.			✓		Safety & Risk Management
8	Exhibit leadership, teamwork, and communication skills necessary for multicultural and interdisciplinary maritime organizations.				✓	Leadership & Intercultural Communication
9	Apply marketing, logistics, and supply chain strategies to global shipping and maritime transport sectors.				✓	Global Logistics & Supply Chain Management
10	Prepare and analyze charter parties, bills of lading, and other shipping documents while managing cargo claims and marine insurance issues.				✓	Maritime Documentation & Insurance
11	Utilize effective business English and Maritime English for negotiation, correspondence, and documentation within international maritime contexts.			✓		Maritime Communication & Professional English
12	Demonstrate ethical awareness, corporate responsibility, and adherence to international professional standards in maritime and logistics management.			✓		Ethics & Corporate Responsibility
13	Develop research skills and analytical thinking to identify, evaluate, and solve complex problems in maritime transport and logistics systems.			✓		Analytical Thinking & Research Skills
14	Adapt to innovations such as digitalization, automation, and smart shipping technologies through continuous professional development.				✓	Innovation & Lifelong Learning
15	Apply entrepreneurship and strategic management principles to establish or develop maritime-related enterprises in a competitive global environment.			✓		Entrepreneurship & Strategic Management

***0:** No Contribution **1:** Little Contribution **2:** Partial Contribution **3:** Full Contribution

Program Outcomes /Course Learning Outcomes Matrix **Level of Contribution**:**0**-No Contribution **1**-Little Contribution **2**-Partial Contribution **3**-Full Contribution										
	LO1	**LO2**	**LO3**	**LO4**	**LO5**	**LO6**	**LO7**	**LO8**	**LO9**	**L10**
PO1	3	3	2	2	2	1	3	2	2	2
PO2	3	3	3	2	2	1	2	1	2	1
PO3	2	3	1	3	3	2	1	3	1	1
PO4	2	2	1	2	3	3	2	2	2	2
PO5	1	2	2	1	1	2	2	2	3	3
PO6	1	2	1	2	1	1	2	3	2	2
PO7	1	1	1	1	1	3	2	2	3	3
PO8	1	1	3	1	1	1	2	1	2	1
PO9	1	1	2	1	1	1	1	1	2	2
PO10	2	2	1	2	3	3	2	2	2	2
PO11	1	2	2	1	1	2	2	2	3	3
PO12	1	2	1	2	1	1	2	3	2	2
PO13	3	3	3	2	2	1	2	1	2	1
PO14	2	3	1	3	3	2	1	3	2	2
PO15	1	2	1	2	2	3	2	2	3	3

Course Learning Outcomes/ Evaluation Method		
Course Learning Outcomes (CLOs)	**Teaching Method**	**Assessment Method**
LO1. Explain the fundamental principles and concepts of green and sustainable logistics in maritime operations.	Lectures, Case Studies	Quizzes, Assignments
LO2. Analyze the environmental impacts of shipping, ports, and maritime supply chains.	Lectures, Case Studies, Discussions	Assignments, Case Study Reports
LO3. Apply international environmental regulations, standards, and conventions to maritime logistics practices.	Lectures, Practical Exercises	Assignments, Quizzes
LO4. Evaluate strategies for energy efficiency, emissions reduction, and the use of alternative fuels in shipping operations.	Lectures, Simulations, Group Work	Practical Reports, Assignments
LO5. Assess sustainable port operations, terminal management, and eco-friendly infrastructure planning.	Lectures, Case Studies	Assignments, Participation
LO6. Integrate intermodal and multimodal transport solutions to minimize environmental impact.	Practical Exercises, Discussions	Assignments, Practical Reports
LO7. Utilize digital tools, smart technologies, and monitoring systems to support sustainable logistics.	Demonstrations, Practical Exercises	Practical Reports, Assignments
LO8. Implement waste management, recycling, and circular economy principles in maritime operations.	Case Studies, Group Work	Case Study Reports, Assignments
LO9. Examine sustainable procurement policies and green supply chain management practices.	Lectures, Discussions	Assignments, Participation
LO10. Develop practical solutions through case studies and projects to improve environmental performance in maritime logistics.	Group Projects, Simulations	Project Reports, Final Exam

ECTS / Workload Table			
Activities	**Number**	**Duration (Hours)**	**Total Workload**
Preparation for lectures	-	-	-
Lectures	**15**	**3**	**45**
Midterm Exam	**1**	**2**	**2**
Preparation for Midterm Exam	**1**	**10**	**10**
Final Exam	**1**	**2**	**2**
Preparation for Final Exam	**1**	**10**	**10**
Presentation(s)	-	-	-
Preparation for Presentation(s)	-	-	-
Research for Project(s)/Essay(s)	-	-	-
Project Writing	-	-	-
Group Work	-	-	-
In-class Discussion(s)	**15**	**1**	**15**
Quiz(es)	-	-	-
Preparation for Quiz(es)	-	-	-
Laboratory	-	-	-
Assignment(s)/Homework/Class Works	**1**	**15**	**15**
Micro-Teaching Sessions	-	-	-
Lesson Planning	-	-	-
Materials Adaptation	-	-	-
Material Development	-	-	-
Draft Preparation	-	-	-
Drawing	-	-	-
Essay Writing	-	-	-
Tutorial(s)	-	-	-
Portfolio Preparation	-	-	-
Portfolio Presentation	-	-	-
Total Workload			**99**
ECTS Credit			**3**

Evaluation System		
Semester Requirements	**Number**	**Percentage of Grade**
Attendance/Participation	15	10
Laboratory	-	-
Application	-	-
Field Work	-	-
Special Course Internship (Work Placement)	-	-
Homework/Assignments	1	10
Providing reliability and motivation of the individual homework completion and Submission	-	-
Presentation/Jury	-	-
Project	-	-
Quiz	-	-
Midterms/Oral Exams	1	30
Final/Oral Exams	1	50
Total	**4**	**100**

	Percentage	**Course Grade**	**Coefficient**
Grading Policy	90-100	AA	4.0
	85-89	BA	3.5
	80-84	BB	3.0
	75-79	CB	2.5
	70-74	CC	2.0
	60-69	DC	1.5
	50-59	DD	1.0
	49 and below	FF	0.0
	Less than 70% attendance	NA	-
Course Requirements and Policies	• Alerted attendance at the lectures is essential! • Students are expected to check frequently the instructor's web page for the course announcements. • University of Kyrenia honor code will be strictly enforced regarding any issues concerning cheating.		

University of Kyrenia

Faculty of Maritime Studies

Maritime Management

Syllabus

Course name: Maritime Risk and Crisis Management							
Code	**Year**	**Semester**	**Credit**	**ECTS**	**Course application, Hour/Week**		
					Theoretical	**Application**	**Laboratory**
MMD316	III	Spring	3	3	3	0	0
Course type: Elective				**Prerequisite: x**		**Language:** English	
% Contribution to the Professional Fundamental Component				**Basic Sciences**	**Engineering Science**	**Engineering Design**	**General Education**
				-	-	-	100
Course Venue and Time				Monday / 08:30 – 11:20			
Instructor information				**Dr. Gökhan Tarı** Faculty of Maritime Studies Wednesday / 09:00 – 12:00 +90 (392) 650 26 00 / 4040 gokhan.tari@kyrenia.edu.tr www.kyrenia.edu.tr			

Course Description	*Maritime Risk and Crisis Management* provides students with a comprehensive understanding of the identification, assessment, and management of risks and crises in the maritime industry. The course covers operational, environmental, financial, and security risks affecting ships, ports, and maritime supply chains. Students will learn to apply risk assessment tools, emergency preparedness strategies, and crisis response frameworks, integrating international regulations and industry best practices. Through case studies, simulations, and practical exercises, students develop skills to anticipate potential hazards, mitigate risks, and effectively manage crises to ensure safe, secure, and resilient maritime operations.
Course Aims and Objectives	The aim of *Maritime Risk and Crisis Management* is to equip students with the knowledge, analytical skills, and practical tools necessary to identify, assess, and manage risks and crises in the maritime industry. • Introduce the fundamental concepts of risk, hazard, and crisis management in maritime operations. • Examine the types of risks affecting ships, ports, and maritime supply chains, including operational, environmental, financial, and security risks. • Explore international regulations, conventions, and standards governing maritime safety and risk management. • Teach techniques for risk identification, assessment, mitigation, and monitoring in maritime operations. • Develop students' ability to plan, implement, and evaluate emergency preparedness and response procedures. • Analyze crisis management frameworks and communication strategies for maritime incidents. • Evaluate the role of insurance and financial risk management in mitigating maritime losses. • Apply decision-making tools, scenario analysis, and risk modeling for operational resilience. • Investigate case studies of maritime accidents and crises to extract lessons learned. • Prepare students to develop practical risk management plans and crisis response strategies for real-world maritime operations.
	LO1. Explain the fundamental concepts of risk, hazard, and crisis management in maritime operations. **LO2.** Identify and categorize operational, environmental, financial, and security risks affecting ships, ports, and maritime supply chains.

Course Learning Outcomes	**LO3.** Apply international regulations, conventions, and industry standards to mitigate risks and manage crises. **LO4.** Conduct risk assessments using qualitative and quantitative methods, including risk matrices and modeling techniques. **LO5.** Develop and implement emergency preparedness and contingency plans for maritime incidents. **LO6.** Evaluate crisis response strategies, including communication and stakeholder management during maritime emergencies. **LO7.** Assess the role of marine insurance, financial risk management, and liability considerations in mitigating losses. **LO8.** Analyze historical maritime incidents and extract lessons for future risk and crisis management. **LO9.** Utilize digital tools, simulations, and decision-support systems for risk monitoring and crisis planning. **LO10.** Design practical risk management and crisis response strategies for safe, secure, and resilient maritime operations.

Content of the Course

Week	*Subject*
1	**Introduction to Maritime Risk and Crisis Management** • Definitions of risk, crisis, and hazard in maritime operations • Importance of risk and crisis management in shipping and ports • Overview of maritime safety culture
2	**Types of Risks in Maritime Operations** • Operational, financial, environmental, and political risks • Natural hazards: weather, storms, and sea conditions • Human-related risks: crew errors, piracy, and accidents
3	**Risk Identification and Assessment** • Risk identification techniques in shipping and ports • Risk assessment methods: qualitative and quantitative • Risk matrices and prioritization
4	**Legal and Regulatory Frameworks** • IMO regulations and conventions (ISM Code, SOLAS, MARPOL) • National and international maritime safety and security laws • Liability, insurance, and compliance issues
5	**Crisis Management Concepts** • Definition and stages of crisis in maritime context • Crisis types: operational, environmental, and reputational • Crisis lifecycle and response framework
6	**Risk Management Tools and Techniques** • Risk mitigation strategies: preventive measures and controls • Safety management systems (SMS) and ISM Code applications • Use of checklists, audits, and monitoring tools
7	**Maritime Security Risks** • Piracy, terrorism, and cargo theft • Port security and ISPS Code implementation • Cybersecurity threats in maritime operations
8	**Emergency Preparedness and Response** • Contingency planning and emergency procedures • Shipboard and port emergency drills • Coordination with rescue, firefighting, and medical services
9	**Insurance and Financial Risk Management** • Marine insurance principles: hull, P&I, cargo insurance • Claims management and liability considerations • Risk transfer and cost-benefit analysis
10	**Crisis Communication and Stakeholder Management** • Communication strategies during maritime crises

	• Internal and external stakeholders: crew, authorities, media, public • Transparency, accountability, and reputation management
11	**Risk Modeling and Decision Making** • Quantitative risk assessment techniques: probabilistic models, Monte Carlo simulation • Scenario analysis and decision-making under uncertainty • Use of risk dashboards and digital tools
12	**Case Studies in Maritime Accidents and Crises** • Analysis of historical maritime incidents • Lessons learned and risk prevention measures • Review of regulatory and operational responses
13	**Port and Terminal Risk Management** • Risk assessment in port operations and cargo handling • Emergency preparedness in terminals • Environmental and safety risk controls
14	**Emerging Risks and Future Challenges** • Climate change, extreme weather, and new shipping routes • Technological risks: automation, digitalization, and cyber threats • Strategies for resilience and sustainability in maritime operations
15	**Course Review and Final Assessment** • Summary of key concepts and best practices • Group presentations on maritime risk and crisis management projects • **Final Exam**

Methods and Techniques used in the Course

Lectures and Theoretical Instruction

- Explanation of risk management concepts, crisis frameworks, and maritime safety principles.
- Use of multimedia presentations to illustrate maritime hazards and response strategies.

Case Studies and Incident Analysis

- Examination of real-world maritime accidents, crises, and near-miss events.
- Lessons learned from historical incidents and best practice evaluation.

Practical Exercises and Simulations

- Risk assessment exercises, emergency response drills, and scenario planning.
- Simulations of port and shipboard crisis management operations.

Class Discussions and Group Work

- Analysis of risk mitigation strategies, regulatory compliance, and crisis response decisions.
- Group projects to develop emergency and contingency plans.

Guest Lectures and Industry Insights

- Presentations by maritime risk managers, insurance specialists, and port authorities.
- Practical insights into current challenges and emerging risks in the maritime sector.

Research and Independent Study

- Assignments on risk modeling, hazard identification, and regulatory frameworks.
- Independent projects to design risk management and crisis response plans.

Use of Digital Tools and Software

- Applications for risk modeling, incident tracking, and decision-support systems.
- Monitoring tools for hazard identification, compliance checks, and operational safety.

Sample Questions

- Define risk and crisis in the context of maritime operations and explain their differences.
- Identify and categorize the main types of risks faced by ships, ports, and maritime supply chains.
- Explain the role of international conventions (e.g., ISM Code, SOLAS, MARPOL) in maritime risk management.
- Describe the steps involved in conducting a maritime risk assessment using qualitative and quantitative methods.
- Discuss strategies for emergency preparedness and contingency planning on board ships and in ports.
- Explain the importance of crisis communication and stakeholder management during maritime emergencies.
- Evaluate the role of marine insurance in mitigating financial and operational risks in shipping.
- Analyze a historical maritime incident and identify lessons learned for risk prevention and crisis response.
- Explain how digital tools and simulations can support risk monitoring and decision-making in maritime operations.
- Develop a brief risk management and crisis response plan for a shipping company or port terminal.

Materials Used in the Course

Primary Textbooks

- **Stopford, Martin** – *Maritime Economics*, 3rd Edition, Routledge, 2009.
- **Knapp, Suzanne & Franses, Joseph W.** – *Maritime Risk Management*, Elsevier, 2018.
- **Talley, Wayne K.** – *Maritime Logistics: A Guide to Contemporary Shipping and Port Management*, 2nd Edition, Kogan Page, 2013.

Recommended References

- **IMO – International Maritime Organization** – *ISM Code, SOLAS, MARPOL Guidelines*.
- **BIMCO Publications** – *Shipping Risk Management Guidelines*.
- **Stopford, Martin** – *Ship Economics and Risk Analysis*.
- **Academic Journals**

Supplementary Learning Materials

- **Case Studies**

Analysis of historical maritime accidents and crisis incidents.

- **Practical Exercises and Simulations**

Risk assessment, contingency planning, and emergency response exercises.

- **Industry Reports and White Papers**

Reports from IMO, UNCTAD, and maritime safety organizations.

- **Digital Tools and Software**

Risk modeling applications, hazard tracking systems, and incident simulation platforms.

- **Videos and Webinars**

Demonstrations of maritime accidents, risk mitigation strategies, and crisis management scenarios.

All the above listed books are available at UoK's Grand Library

Program Outcomes Matrix

	Program Outcomes	*Level of Contribution				Targeted Competence Areas
		0	1	2	3	
1	Demonstrate fundamental knowledge of maritime business, shipping operations, port management, and international logistics.				✓	Maritime Business & Operations
2	Apply principles of management, economics, and finance to ship operations, chartering, brokerage, and maritime organizational decision-making.				✓	Maritime Economics & Management
3	Understand and interpret international maritime law, conventions, and trade regulations including SOLAS, MARPOL, UNCLOS, and INCOTERMS.				✓	Maritime Law & Policy
4	Plan and manage port and terminal operations efficiently, considering cargo handling systems, port logistics, and intermodal transport networks.				✓	Port & Terminal Operations Management
5	Employ digital tools and data-driven approaches in ship management, fleet performance monitoring, and maritime logistics systems.				✓	Digital Maritime Operations
6	Integrate sustainability, environmental protection, and decarbonization principles into maritime and logistics operations in line with IMO GHG strategy.			✓		Sustainability & Green Shipping
7	Demonstrate competence in maritime risk assessment, safety management systems (ISM Code), and crisis response in ship and shore-based contexts.			✓		Safety & Risk Management
8	Exhibit leadership, teamwork, and communication skills necessary for multicultural and interdisciplinary maritime organizations.				✓	Leadership & Intercultural Communication
9	Apply marketing, logistics, and supply chain strategies to global shipping and maritime transport sectors.				✓	Global Logistics & Supply Chain Management
10	Prepare and analyze charter parties, bills of lading, and other shipping documents while managing cargo claims and marine insurance issues.				✓	Maritime Documentation & Insurance
11	Utilize effective business English and Maritime English for negotiation, correspondence, and documentation within international maritime contexts.			✓		Maritime Communication & Professional English
12	Demonstrate ethical awareness, corporate responsibility, and adherence to international professional standards in maritime and logistics management.			✓		Ethics & Corporate Responsibility
13	Develop research skills and analytical thinking to identify, evaluate, and solve complex problems in maritime transport and logistics systems.			✓		Analytical Thinking & Research Skills
14	Adapt to innovations such as digitalization, automation, and smart shipping technologies through continuous professional development.				✓	Innovation & Lifelong Learning
15	Apply entrepreneurship and strategic management principles to establish or develop maritime-related enterprises in a competitive global environment.			✓		Entrepreneurship & Strategic Management

***0:** No Contribution **1:** Little Contribution **2:** Partial Contribution **3:** Full Contribution

Program Outcomes /Course Learning Outcomes Matrix **Level of Contribution**:**0**-No Contribution **1**-Little Contribution **2**-Partial Contribution **3**-Full Contribution										
	LO1	**LO2**	**LO3**	**LO4**	**LO5**	**LO6**	**LO7**	**LO8**	**LO9**	**L10**
PO1	3	3	2	2	2	1	3	2	2	2
PO2	3	3	3	2	2	1	2	1	2	1
PO3	2	3	1	3	3	2	1	3	1	1
PO4	2	2	1	2	3	3	2	2	2	2
PO5	1	2	2	1	1	2	2	2	3	3
PO6	1	2	1	2	1	1	2	3	2	2
PO7	1	1	1	1	1	3	2	2	3	3
PO8	1	1	3	1	1	1	2	1	2	1
PO9	1	1	2	1	1	1	1	1	2	2
PO10	2	2	1	2	3	3	2	2	2	2
PO11	1	2	2	1	1	2	2	2	3	3
PO12	1	2	1	2	1	1	2	3	2	2
PO13	3	3	3	2	2	1	2	1	2	1
PO14	2	3	1	3	3	2	1	3	2	2
PO15	1	2	1	2	2	3	2	2	3	3

Course Learning Outcomes/ Evaluation Method		
Course Learning Outcomes (CLOs)	**Teaching Method**	**Assessment Method**
LO1. Explain the fundamental concepts of risk, hazard, and crisis management in maritime operations.	Lectures, Case Studies	Quizzes, Assignments
LO2. Identify and categorize operational, environmental, financial, and security risks affecting ships, ports, and maritime supply chains.	Lectures, Case Studies, Group Discussions	Assignments, Case Study Reports
LO3. Apply international regulations, conventions, and industry standards to mitigate risks and manage crises.	Lectures, Practical Exercises	Assignments, Quizzes
LO4. Conduct risk assessments using qualitative and quantitative methods, including risk matrices and modeling techniques.	Practical Exercises, Simulations	Practical Reports, Assignments
LO5. Develop and implement emergency preparedness and contingency plans for maritime incidents.	Group Work, Simulations	Project Reports, Participation
LO6. Evaluate crisis response strategies, including communication and stakeholder management during maritime emergencies.	Case Studies, Discussions	Case Study Reports, Participation
LO7. Assess the role of marine insurance, financial risk management, and liability considerations in mitigating losses.	Lectures, Practical Exercises	Assignments, Quizzes
LO8. Analyze historical maritime incidents and extract lessons for future risk and crisis management.	Case Studies, Group Discussions	Case Study Reports, Assignments
LO9. Utilize digital tools, simulations, and decision-support systems for risk monitoring and crisis planning.	Practical Exercises, Demonstrations	Practical Reports, Assignments
LO10. Design practical risk management and crisis response strategies for safe, secure, and resilient maritime operations.	Group Projects, Simulations	Project Reports, Final Exam

ECTS / Workload Table			
Activities	**Number**	**Duration (Hours)**	**Total Workload**
Preparation for lectures	-	-	-
Lectures	**15**	**3**	**45**
Midterm Exam	**1**	**2**	**2**
Preparation for Midterm Exam	**1**	**10**	**10**
Final Exam	**1**	**2**	**2**
Preparation for Final Exam	**1**	**10**	**10**
Presentation(s)	-	-	-
Preparation for Presentation(s)	-	-	-
Research for Project(s)/Essay(s)	-	-	-
Project Writing	-	-	-
Group Work	-	-	-
In-class Discussion(s)	**15**	**1**	**15**
Quiz(es)	-	-	-
Preparation for Quiz(es)	-	-	-
Laboratory	-	-	-
Assignment(s)/Homework/Class Works	**1**	**15**	**15**
Micro-Teaching Sessions	-	-	-
Lesson Planning	-	-	-
Materials Adaptation	-	-	-
Material Development	-	-	-
Draft Preparation	-	-	-
Drawing	-	-	-
Essay Writing	-	-	-
Tutorial(s)	-	-	-
Portfolio Preparation	-	-	-
Portfolio Presentation	-	-	-
Total Workload			**99**
ECTS Credit			**3**

Evaluation System		
Semester Requirements	**Number**	**Percentage of Grade**
Attendance/Participation	15	10
Laboratory	-	-
Application	-	-
Field Work	-	-
Special Course Internship (Work Placement)	-	-
Homework/Assignments	1	10
Providing reliability and motivation of the individual homework completion and Submission	-	-
Presentation/Jury	-	-
Project	-	-
Quiz	-	-
Midterms/Oral Exams	1	30
Final/Oral Exams	1	50
Total	**4**	**100**

	Percentage	**Course Grade**	**Coefficient**
Grading Policy	90-100	AA	4.0
	85-89	BA	3.5
	80-84	BB	3.0
	75-79	CB	2.5
	70-74	CC	2.0
	60-69	DC	1.5
	50-59	DD	1.0
	49 and below	FF	0.0
	Less than 70% attendance	NA	-
Course Requirements and Policies	• Alerted attendance at the lectures is essential! • Students are expected to check frequently the instructor's web page for the course announcements. • University of Kyrenia honor code will be strictly enforced regarding any issues concerning cheating.		