

Annexe A: New/Revised Course Content in OBTL+ Format

Course Overview

Expected Implementation in Academic Year (New format)	AY2024-2025
Semester/Trimester/Others (specify approx. Start/End date)	Semester 2
Course Author * Faculty proposing/revising the course	Lee-Chua Lee Hong
Course Author Email	clhlee@ntu.edu.sg
Course Title	Shipping Management
Course Code	MT3004
Academic Units	3
Contact Hours	39
Research Experience Components	Not Applicable

Course Requisites (if applicable)

Pre-requisites	
Co-requisites	
Pre-requisite to	
Mutually exclusive to	
Replacement course to	
Remarks (if any)	

Course Aims

This course introduces the framework and practices on various aspects of shipping management, along with insights into related parameters. The tools for financial analysis of shipping investments are also introduced.

Course's Intended Learning Outcomes (ILOs)

Upon the successful completion of this course, you (student) would be able to:

ILO 1	Understand the functions and activities of different aspects to shipping management
ILO 2	Know the concepts, functions, and strategies of shipping businesses
ILO 3	Conceptualize on technical management of a ship, including dry docking
ILO 4	Have a good perspective into safety and security management in ship operations
ILO 5	Reflect and evaluate risks, setting performance indices in managing shipping activities
ILO 6	Understand financial resources and related analysis tools.

Course Content

1. Introduction to ship management: functions and activities
2. Roles of Ship Managers
3. Technical support to ship management
4. Crewing functions in ship management
5. Aspects of commercial management in shipping
6. Safety and Security in shipping / Safety management systems
7. Maritime energy management
8. Contractual matters in shipping management
9. Assessing risks and measuring Performances
10. Insights into tanker management
11. Organizational behaviours in shipping
12. Managing financial resources, Capital budgeting
13. Sustainability in shipping

Reading and References (if applicable)

1. Ship Management - Theory and Practice (2021), by Pengfei Zhang & Lijun Tang
2. Ship Operations Management (2018), WMU, by I.D. Visvikis & P.M. Panayides
3. Ship Operations and Management (2022), ICS, by Patrick Neylan

Note: The above listing comprises the foundational readings for the course and more up-to-date relevant readings will be provided when they become available.

Planned Schedule

Week or Session	Topics or Themes	ILO	Delivery Mode	Activities	Readings
1	Introduction to ship management: functions and activities: - The state holders, ship owning entities, venues of managing ships - Shipping company structures.	1,2	In-person	Lecture & Tutorial	Lecture materials
2	Roles of Ship Managers, in-house and 3rd party: - Liabilities and responsibilities - Areas of contribution to a success	1,2	In-person	Lecture & Tutorial	Lecture materials
3	Technical support to ship management: - Regulatory aspects - Repair and maintenance, budgeting, spares etc.	1,2,3	In-person	Lecture & Tutorial	Lecture materials
4	Crewing functions in ship management: - The human element, health and well being - Regulatory and welfare, MLC - Fatigue management, STCW	1,2	In-person	Lecture & Tutorial	Lecture materials
5	Aspects of commercial management in shipping: - Acting in owners' interest re: voyage instructions - Charter party compliance	1,2	In-person	Lecture & Tutorial	Lecture materials

Week or Session	Topics or Themes	ILO	Delivery Mode	Activities	Readings
6	Safety and Security in shipping / Safety management systems: - Regulatory aspects, ISM, ISPS etc. - Preventive measures against piracy, hijack etc.	1,2,3,4	In-person	Lecture & Tutorial	Lecture materials
7	Maritime energy management: - Pollution prevention in shipping - Energy renewal / environment impacts - Understanding fundamentals of energy efficiency	1,3	In-person	Lecture & Tutorial	Lecture materials
8	Contractual matters in shipping management: - Relationship between owners n managers - BIMCO contracts - SHIPMAN 2009 & CREWMAN A	1,2	In-person	Lecture & Tutorial	Lecture materials
9	Assessing risks and measuring Performances: - Risk assessments to ensure safe operations - KPI (Various performance - Business, Safety, etc.) - Industry Benchmarking	1,2,4,5	In-person	Lecture & Tutorial	Lecture materials

Week or Session	Topics or Themes	ILO	Delivery Mode	Activities	Readings
10	Insights into tanker management: - Features in tanker management as differing - Self-Assessments (TMSA), SIRE regime	1,2	In-person	Lecture & Tutorial	Lecture materials
11	Organizational behaviours in shipping: - Structures and cultures - Management of Change	1,2,3	In-person	Lecture & Tutorial	Lecture materials
12	Managing financial resources, Capital budgeting: - Discounted cash flow analysis - Bank financing, Weighted average cost of capital	1,2,5,6	In-person	Lecture & Tutorial	Lecture materials
13	Sustainability in shipping: - Environmental management system (EMS) - ISO 14001, Corporate social responsibility	1,2,3,6	In-person	Lecture & Tutorial	Lecture materials

Learning and Teaching Approach

Approach	How does this approach support you in achieving the learning outcomes?
Lectures	This provides you with the needed background for outcomes (1) to (6) and to allow you to apply principles, methodologies and considerations related to strategy planning, implementation, and operational management in the port industry.
Tutorials	Comprises mostly qualitative questions, where most of which are open-ended case questions. Some quantitative questions are also included to provide practices for practical data-based analysis. The tutorials offer you with opportunities to analyse practical problems that address outcomes (1) to (6).

Assessment Structure

Assessment Components (includes both continuous and summative assessment)

No.	Component	ILO	Related PLO or Accreditation	Weightage	Description of Assessment Component	Team/Individual	Rubrics	Level of Understanding
1	Continuous Assessment (CA): Test/Quiz(CA1: Quiz 1)	1,2,3,4	A,B,C,D,F	20		Individual	Analytic	Multistructural
2	Continuous Assessment (CA): Test/Quiz(CA2: Quiz 2)	2,5,6	B,D,E	20		Individual	Analytic	Multistructural
3	Summative Assessment (EXAM): Final exam(Final Examination)	1-6	A to E,G,I	60		Individual	Holistic	Relational

Description of Assessment Components (if applicable)

1. CA 1: This will be a physical in-person quiz session, it will cover all the topics taught in the first half of the semester
2. CA 2: This will be a physical in-person quiz session, it will cover all the topics taught in the second half of the semester
3. Exam: It would be a physical in-person exam, it will cover all the topics taught in the entire semester of this course

Formative Feedback

The lectures shall be interactive where your (students) inputs are highly encouraged in the process.

Instructors will take questions during and at end of lectures and provide on-the-spot clarifications. You (students) can also confer with instructors at tutorials/discussions, at appointed consultations or via email.

NTU Graduate Attributes/Competency Mapping

This course intends to develop the following graduate attributes and competencies (maximum 5 most relevant)

Attributes/Competency	Level
Care for Environment	Intermediate
Curiosity	Intermediate
Decision Making	Intermediate
Problem Solving	Intermediate
Critical Thinking	Intermediate

Course Policy

Policy (Academic Integrity)

Good academic work depends on honesty and ethical behaviour. The quality of your work as a student relies on adhering to the principles of academic integrity and to the NTU Honour Code, a set of values shared by the whole university community. Truth, Trust and Justice are at the core of NTU's shared values. As a student, it is important that you recognize your responsibilities in understanding and applying the principles of academic integrity in all the work you do at NTU. Not knowing what is involved in maintaining academic integrity does not excuse academic dishonesty. You need to actively equip yourself with strategies to avoid all forms of academic dishonesty, including plagiarism, academic fraud, collusion and cheating. If you are uncertain of the definitions of any of these terms, you should go to the academic integrity website for more information. On the use of technological tools (such as Generative AI tools), different courses / assignments have different intended learning outcomes. Students should refer to the specific assignment instructions on their use and requirements and/or consult your instructors on how you can use these tools to help your learning. Consult your instructor(s) if you need any clarification about the requirements of academic integrity in the course.

Policy (General)

Students are expected to take responsibility to follow up with course notes, assignments, and course related announcements. You are also expected to participate in class discussions and submit the project report before the stipulated deadline.

Policy (Absenteeism)

Valid reasons include falling sick supported by a medical certificate and participation in NTU's approved activities supported by an excuse letter from the relevant bodies. There will be no make-up opportunities for in-class activities.

Policy (Others, if applicable)

This course will adopt NTU's policy on the use of AI for take-home assignments and reports, and project reports and presentation slides. More details could be found via the link [https://entuedu.sharepoint.com/sites/Student/dept/ctlp/SitePages/Exploring-the-Impact-of-Generative-Artificial-Intelligence-\(GAI\)-Tools-on-Education.aspx#1-proper-citations-and-acknowledgements](https://entuedu.sharepoint.com/sites/Student/dept/ctlp/SitePages/Exploring-the-Impact-of-Generative-Artificial-Intelligence-(GAI)-Tools-on-Education.aspx#1-proper-citations-and-acknowledgements)

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