

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

### Course Overview

The sections shown on this interface are based on the templates [UG OBTL+](#) or [PG OBTL+](#)

If you are revising/duplicating an existing course and do not see the pre-filled contents you expect in the subsequent sections e.g. Course Aims, Intended Learning Outcomes etc. please refer to [Data Transformation Status](#) for more information.

Expected Implementation in Academic Year	AY 2024-25
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	Port Economics
Course Code	MT2005
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

The fundamental objective of the course is to provide you with the economic aspects of the port industry and the underlying principles of port activities. You will learn concepts and industry practice in port economics and how the port industry functions.

This course will therefore focus on two areas of student learning:

- a. Economic concepts which are applicable to explain phenomenon in the port industry
- b. Economic and related commercial aspects of port industry practice to explain what port actors and port users do, as well as how the port industry functions

## Course's Intended Learning Outcomes (ILOs)

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

ILO 1	Describe and apply economic concepts which are useful to explain phenomenon in the port industry.
ILO 2	Identify and explain the major types of port ownership models, terminal layouts and facilities.
ILO 3	Analyse how port actors devise policies and operate in the port industry.
ILO 4	Discuss how port actors and port users make commercial decisions by analysing market issues faced by the port industry.

## Course Content

1. International trade, role and function of port
2. Demand for port services
3. Supply of port services
4. Port competitiveness and competition
5. Basic operations of terminals and terminal operator
6. Port ownership, structure and administration
7. Terminal layout, structure, facilities operation and operator
8. Port cost and pricing
9. Port productivity and efficiency
10. Port users and major shipping dynamics influencing port performance
11. Port policy issues
12. Port logistics
13. Case studies

## Reading and References (if applicable)

Here are the key references:

1. Lam, J.S.L. (2016) Strategy of a transshipment hub: Case of Port of Singapore, in Lee, P.T.W. and Cullinane, K. (eds.) Dynamic Shipping and Port Development in the Globalized Economy, Palgrave
2. Yap, W.Y. (2020) Business and Economics of Port Management. London: Routledge
3. Wayne K. Talley (2018) Port Economics

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	Readings	Delivery Mode	Activities
1	Introduction to course. International trade, role and function of port	1,3	Lecture materials	In-person	Tutorial and lectures
2	Demand for port services	1,4	Lecture materials	In-person	Tutorial and lectures
3	Supply of port services	1,3,4	Lecture materials	In-person	Tutorial and lectures
4	Port competitiveness and competition	3,4	Lecture materials	In-person	Tutorial and lectures
5	Basic operations of terminals and terminal operator	2,3	Lecture materials	In-person	Tutorial and lectures
6	Port ownership, structure and administration	2,3,4	Lecture materials	In-person	Tutorial and lectures
7	Terminal layout, structure, facilities operation and operator	2,3	Lecture materials	In-person	Tutorial and lectures
8	Port cost and pricing	1,3,4	Lecture materials	In-person	Tutorial and lectures
9	Port productivity and efficiency	1,2,3	Lecture materials	In-person	Tutorial and lectures
10	Port users and major shipping dynamics influencing port performance	3,4	Lecture materials	In-person	Tutorial and lectures

Week or Session	Topics or Themes	ILO	Readings	Delivery Mode	Activities
11	Port policy issues	3,4	Lecture materials	In-person	Tutorial and lectures
12	Port logistics	3,4	Lecture materials	In-person	Tutorial and lectures
13	Case studies	1,2,3,4	Lecture materials	In-person	Tutorial and lectures

## 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 (4) and to allow you to apply concepts and principles in port economics.
Tutorials	Comprises qualitative and quantitative questions, many of which are open-ended discussion and case questions. Some quantitative questions are included to provide practices for practical data-based analysis. The tutorials offer you with opportunities to analyse practical problems that address outcomes (1) to (4).

# Assessment Structure

Assessment Components (includes both continuous and summative assessment)

No.	Component	ILO	Related PLO or Accreditation	Weightage	Team/Individual	Rubrics	Level of Understanding
1	Summative Assessment (EXAM): Final exam(Final Examination)	1-4	SLO* A, B, D, E, G, H, I, J	60	Individual	Holistic	Relational
2	Continuous Assessment (CA): Test/Quiz(CA1: Quiz)	1-4	SLO* A, B, D, E, G, H, I, J	15	Individual	Analytic	Multistructural
3	Continuous Assessment (CA): Project(CA2: Team Project with Report )	1-4	SLO* A, B, D, E, G, H, I, J	25	Team	Analytic	Relational

Description of Assessment Components (if applicable)

<p>1. Exam : It would be a physical in-person exam, it will cover all the topics taught in the entire semester of this course.</p> <p>2. CA1 : This will be a physical in-person quiz session, it will cover all the topics taught before the quiz session.</p> <p>3. CA2 : This would be a Team Project with report submission. The assessment will include peer review and moderated factors. More details will be provided by the teaching faculty.</p>
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Formative Feedback

<p>Instructors 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.</p> <p>Students are assessed based on their contribution to the Team Project. Each team will require to submit a written report. Feedback will be provided upon the completion of grading.</p>
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## NTU Graduate Attributes/Competency Mapping

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

Attributes/Competency	Level
Adaptability	Intermediate
Decision Making	Intermediate
Problem Solving	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)

Last Updated Date: 17-01-2025 07:06:35

Last Updated By: Yang, En-Hua

## Rubrics for MT2005 Port Economics

### CA2: Team Project with Written Report (25%)

The topics for the Team Project cover ILO 1 to 4. You (student) will write a team report on your findings. This assessment is covered by the following marking scheme. More details of the report length and specific requirements will be briefed by the course instructor.

Criteria	Good (8-10)	Ave (6-7)	Fair (4-5)	Poor (1-3)	Remarks
Report generated by Turnitin	Within acceptable degree of originality? (Yes/No)				Fresh report, in case of too many commonalities.
Background/ Objective/ Purpose					Accurate contextualisation of background and description. Well defined issues; clear objectives.
Methodology/ Information / Data Collection					Ability and independence in acquiring relevant and useful information/data for the study.
Findings and Discussion					Well-presented results with discussion, showing ability to understand problem, interpret information obtained, and be cognisant of limitations.  Innovative (and well justified) implications/ solutions will be favourably evaluated.
Conclusions and Recommendations					Summarise report clearly and show ability to make appropriate and relevant conclusions, with clear and workable recommendations.
References and Report Format					Report is clear and concise; good grammar and spelling with appropriate tables/ graphs/ figures. Report is presented well with logical sequence.



## **Peer Evaluation of Contributions to the Team Project (CA2)**

At the end of the assignment, it is necessary for all students to assess the contributions of each team member based on:

1. **Teamwork:** demonstrating proactiveness in collaborating with team members and respect for each other.
2. **Quantity of work:** demonstrating fair share in the overall workload throughout the team project.
3. **Quality of work:** contributing ideas and research efforts that enhance the overall quality of the team's output.

Peer evaluation exercise is anonymous and confidential and will be carried out upon report submission. Each student will give a rating scale between 1 to 5 on the above 3 assessment criteria, see rating rubric below:

<b>Rating Scale</b>	
5	Strongly agree ( <i>best rating</i> )
4	Agree
3	Neutral
2	Disagree
1	Strongly disagree ( <i>lowest rating</i> )

Each student's average rating given by his/her team members will be computed into a score. The score will be used to adjust the individual team member's final score from the overall team's score, see rating rubric below:

<b>Student's Average Rating Range (Min 1; Max 5)</b>	<b>Marks Deduction from Team's Score (out of 100%)</b>
≥ 3.5	0%
3.0 to < 3.5	-5%
2.5 to < 3.0	-10%
> 1 to < 2.5	-15%
= 1.0	Instructor might contact the student for further assessment

Students will be reminded to contact the instructor if any team members miss meetings or fail to contribute to the team project. For students whose average rating range is equal to 1, the instructor might contact them, and/or contact any other team members to further assess the marks deduction.

All team members are expected to complete the peer evaluation for all other members. Self-evaluation is not required.