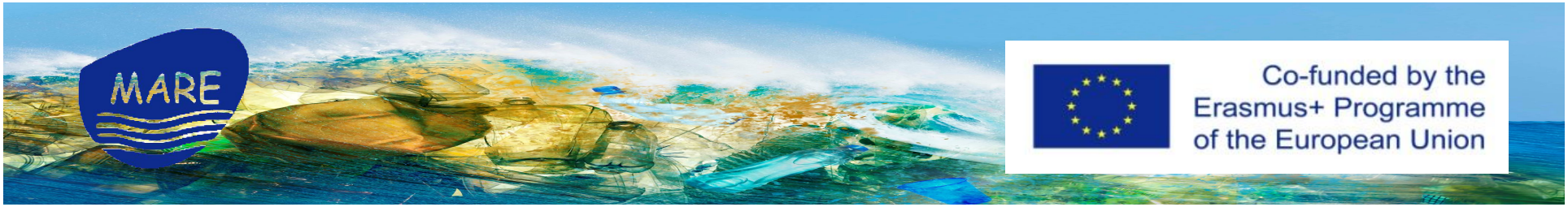

LECTURE

CONTROL OF MARINE POLLUTION

Lecturer: Prof. Nguyen Ky Phung

MSc. Dang Thi Thanh Le

Co-funded by the
Erasmus+ Programme
of the European Union

LECTURE NOTE
MODELLING THE MARINE ENVIRONMENT

COURSE SYLLABUS

Lecturer: Prof. Nguyen Ky Phung
MSc. Dang Thi Thanh Le

GENERAL INFORMATION

Vietnamese subject name:	Kiểm soát ô nhiễm biển
English subject name:	Control of Marine polution
Code subject:	
Knowledge block:	Specialized
Number of credits:	3 ETCs
Number of theoretical periods / sessions:	30 periods
Number of practice periods / sessions:	No
Prerequisite subject:	No

COURSE DESCRIPTION

The course will provide students with in-depth knowledge about the environment and skills to perform environmental management in accordance with modern development trends. Specifically, the subject will equip students with knowledge about measures to prevent and control marine pollution and related legal requirements in the control and monitoring of the marine environment.

COURSE GOALS

Students are equipped with knowledge of:

- Measuring to prevent and control marine pollution
- Monitoring compliance with legal requirements in marine pollution control.
- Working at an individual level and collaborate in groups to communicate and discuss among individuals in groups for learning and reporting.

LEARNING OUTCOMES

After completing the course students can:

- Present the current state of the marine environment
- Understand the role of marine pollution control
- Distinguishing sources of marine pollution
- Apply professional ethics in designing solutions to prevent and control marine pollution
- Evaluate the plan to control marine pollution
- Strengthen teamwork skills, report making and presentation skills.
- Demonstrate active learning capacity.

COURSE ASSESSMENT

Course assignments will constitute a multi-part project:

- Assignment #1 -(in-class) : will help students understand the basic knowledge of dynamics currents and tides.
- Assignment #2 - (home work): will help students understand the basic knowledge of flow dynamics and hydrography
- Assignment #3 –(home work): will help students understand the processes of the transmission of substances to the marine and ocean environment
- Assignment #4 (mostly in-class): Understanding the basic knowledge of flow dynamics and hydrography, the basic knowledge of modelling of substance transmission in marine environment.

Grading

Assessment	• Progress assessment (40%): - Exercise (15%): - Homework (15%): • Semi- Final examination (10%) • Final examination (50%)
Evaluation	A (8,5 – 10) B (7,0 – 8,4) C (5,5 - 6,9) D (4,0 – 5,4)

COURSE OUTLINE

Week 1: Issues about marine resources and environment

Week 2: Legal aspects of marine pollution control

Week 3: General control of marine pollution

Weeks 4, 5, 6, 7 & 8: Prevention and Response to Marine Environmental Incidents

Week 9 & 10: seminar report

COURSE ASSESSMENT

Test time	Evaluation form	Evaluation Tool	Wei-ght	Score scale	Evaluation Criteria
Throughout the learning process	Individual, group	Ask questions, individual exercises, group exercises	10%	10	Answer the question with the right focus, thinking and depth
Week	group	seminar	20%	10	Rubric
Week 11	Individual,	Final exam	70%	10	multiple choice format. content related to the course content.

REFERENCES

Literature

[1]. Lecture of Control of marine pollution

Recommended:

[1] International Convention for the Prevention of Pollution from Ships (MARPOL) Adoption: 1973 (Convention), 1978 (1978 Protocol), 1997 (Protocol - Annex VI); Entry into force: 2 October 1983 (Annexes I and II).

[2] Manual on oil pollution : section IV, combating oil spils. International Maritime Organization, 2005. ISBN 9280141775.

[3] Manual on oil pollution : Section II: Contingency Planning. International Maritime Organization, 1995. ISBN 9789280113303

[4] United Nations Convention on the Law of the Sea,1992

[5] National standard TCVN 11465: 2016 (ISO 16304: 2013)