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**Marine Coastal and Delta Sustainability for Southeast Asia**

# **OCEAN ENVIRONMENTAL MANAGEMENT**



Vietnam Maritime University

# OVERVIEW



- COURSE NAME: OCEAN ENVIRONMENTAL MANAGEMENT
- CODE: MARE-VMU-P6-01
- LEVEL: BACHELOR'S COURSE
- LANGUAGE: VIETNAMESE AND ENGLISH
- LINK: <http://mare.vimaru.edu.vn/tin-tuc/ocean-environmental-management-bachelors-course-mare-vmu-p6>

# COURSE INTRODUCTION

mare.vimaru.edu.vn/tin-tuc/ocean-environmental-management-bachelors-course-mare-vmu-p6

[Qua tang, Nuoc uo...](#) [Activities - Tập tin - ...](#) [Final - UNCLOUD](#) [Exchange rate \(Info...](#) [Distance Calculator...](#) [QHQT - So theo doi...](#)



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Ocean Environmental Management - Bachelor's course (MARE-VMU-P6)

Credits: 4.5 ECTS

Lecturers: DINH THI THUY HANG, TRAN DUC PHU

Level: Bachelor



# COURSE OUTLINE

| <b>Week</b>    | <b>Topics</b>  |
|----------------|--|
| <b>Week 1</b>  | <b>The world oceans</b>                                      |
| <b>Week 2</b>  | <b>How climate change alters the ocean chemistry</b>         |
| <b>Week 3</b>  | <b>Climate change impacts on marine ecosystems</b>           |
| <b>Week 4</b>  | <b>Living resource and medical knowledge from the sea</b>    |
| <b>Week 5</b>  | <b>Marine minerals and energy, and maritime highways</b>     |
| <b>Week 6</b>  | <b>Polluting the seas</b>                                    |
| <b>Week 7</b>  | <b>Oil spill (revised)</b>                                   |
| <b>Week 8</b>  | <b>Pollution cleanup (revised)</b>                           |
| <b>Week 9</b>  | <b>Coastal processes and classification</b>                  |
| <b>Week 10</b> | <b>Coastal erosion and flooding (revised)</b>                |
| <b>Week 11</b> | <b>Coastal protection and shoreline management (revised)</b> |
|                | <b>Final exam</b>  |



# COURSE SYLLABUS

mare.vimaru.edu.vn/tin-tuc/vmu-syllabi-mare-courses

[Qua tang, Nuoc uo...](#) [Activities - Tập tin -...](#) [Final - UNCLOUD](#) [Exchange rate \(Info...](#) [Distance Calculator...](#) [QHQT - So theo doi...](#)



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## VMU - Syllabi for MARE courses

Based on the results of surveys in the first period of MARE project, the VMU's coordinating board had consulted carefully with expertized faculties and institutes to decide which parts need to be revised and adjusted. After that, syllabus of courses has been gradually made and completed to be well-prepared for training. A syllabus consists of clear objectives, targeted group, timetable, desired learning outcomes and learning methods. Furthermore, Vietnam Maritime University and Ho Chi Minh University of Natural Resources and Environment collaborated on creating and developing the learning program with the purpose of enhancing interaction and efficiency among partner institutions in Vietnam. The syllabi for MARE courses are mentioned as the following attached files.

1. Hydro-Meteorology
2. Port and Marine constructions
3. Sustainability in coastal construction
4. Control and management of marine environment
5. Environmental Law and Policy
6. Ocean Environmental Management

**Attachment**

**Size**

 vmu-mare-syllabi.rar











1.09 MB

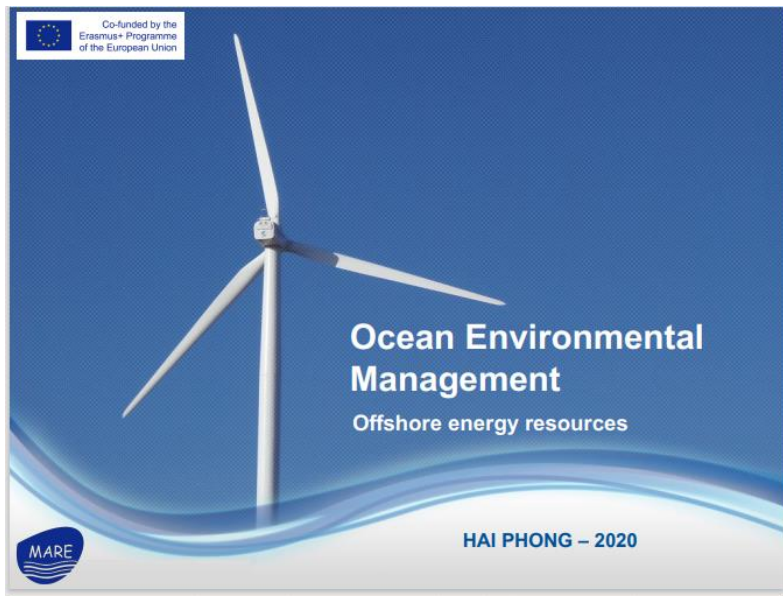
[Contact us](#)



# E-LEARNING MATERIALS


Drive của tôi > VMU-MARE-E-lear... > 1. VMU-Ocean Environm... > ppt Ocean Environmetal managem...

| Tên ↓  | Chủ sở hữu | Sửa đổi lần cuối   | Kích cỡ tệp |
|--|------------|--------------------|-------------|
|  Lesson 8. Coastal protection and shoreline Management... | tôi        | 09:17 tôi          | 10,9 MB     |
|  Lesson 7. COASTAL EROSION&FLOODING_V1.pdf                | tôi        | 09:17 tôi          | 13,3 MB     |
|  Lesson 6. COASTAL PROCESSES&CLASSIFICATION_V1....        | tôi        | 09:16 tôi          | 16,7 MB     |
|  Lesson 5. Ocean environmental regulations.pdf            | tôi        | 09:16 tôi          | 6,8 MB      |
|  Lesson 4-Pollution cleanup-HANG.pdf                      | tôi        | 09:16 tôi          | 4,6 MB      |
|  Lesson 3. Oilspill.pdf                                   | tôi        | 09:16 tôi          | 17,5 MB     |
|  Lesson 2. Marine minerals and energy.pdf               | tôi        | 09:16 tôi          | 2,2 MB      |
|  Lesson 1. The world oceans_OEM 2020.pdf                | tôi        | 19 thg 8, 2021 tôi | 25,8 MB     |
|  desktop.ini  | tôi        | 19 thg 8, 2021 tôi | 136 byte    |
|  .DS_Store  | tôi        | 30 thg 7, 2021 tôi | 6 KB        |



## OIL AND GAS

- Oil and natural gas are naturally occurring chemicals that are made up of just two elements -- carbon and hydrogen.
- The class of chemicals based on carbon and hydrogen are called hydrocarbons.
- The simplest hydrocarbon, methane, is made up of one carbon atom and four hydrogen atoms.
  - Other hydrocarbons like octane and octadecane have more complicated structures.
  - Plastics are made of molecules called polymers that are very long chains of hydrocarbons.



## COASTAL PROCESSES AND CLASSIFICATION



## OBJECTIVES

- Description of coastal terms
- The beach materials and their origins
- The basic hydrodynamics (waves, currents, water-levels) and meteorological factors (wind)
- The morphological processes and form elements
- The shoreline evolution.



## Coastal protection and shoreline Managements

## Coastal Erosion and Beach Loss

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- A natural process that redistributes sediments along coasts
- Becomes a problem when coastal development impedes or ignores the natural movement of sediment along the shore
- Exacerbated by continued sea level rise





thank  
you



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