

# Marine Resources Management MMS3623

## Learner's Manual



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INSTITUTE OF  
OCEANOGRAPHY  
AND ENVIRONMENT

Faculty of Science and Marine Environment



# Table of Contents

Item	Content	Page
1.0	Introduction to course	1
2.0	Course structure	
2.1	Course Planning	2
2.2	Mode of Delivery	3
2.3	Teaching Strategy	4
2.4	Learning Material	5
2.5	Learning Notes	6
2.6	Video Related to the Environment	7
2.7	Assignments	8
3.0	Others	
3.1	Test / Final Exam Regulation	9
3.2	Reading List	10
3.3	Questionnaire for Students	11

# 1.0 Introduction to course

This course introduces the concepts of marine resources and management of marine environments, its complex interactions between flora and fauna ecosystem include fisheries resources, coral reefs communities and mangrove forests. Students will gain a knowledge and understanding of marine pollution, fisheries resources management, food security and safety, marine conservation, marine protected areas, coastal zone management, strategies for sustainable development and other topics of contemporary relevance. The course also will highlight the marine resources policy and the environmental and social implications of that policy. The current issue related to marine resource pollution also will be discussed in this course.

The aim of the course is to provide students with the concepts and inventory of marine resources, marine resources policy and its implication and management of marine environments, its complex interactions between flora and fauna ecosystem include fisheries resources, coral reefs communities and mangrove forests.

By the end of the course, students will success to:

1. Interpret the management of marine resources available and the interaction between biotic and abiotic factors without affecting the carrying capacity of the ocean correctly.
2. Demonstrate relevant ideas or models to overcome the problems of marine resource pollution.
3. Explain policies and acts that are widely used for sustainable marine resources management clearly .

## 2.0 Course Structure

### 2.1 Course Planning

Chapter	Topic
Introduction	Introduction to subject, Syllabus, MyCA
Chapter 1	Introduction to Marine Resources
Chapter 2	Conservation of Marine Resources
Chapter 3	Pollution of Marine Resources
Chapter 4	Fisheries and Resources Sustainability
Chapter 5	Seafood Safety and Security
Chapter 6	Policies and Acts to Manage Marine Resources
Chapter 7	Current Issues Related to Marine Resources

## 2.0 Course Structure

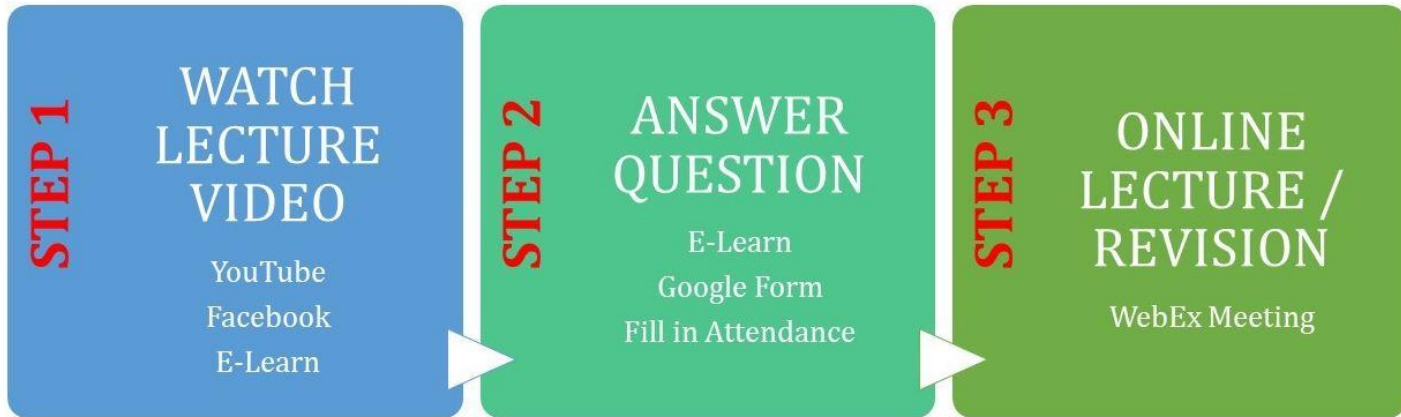
### 2.2 Mode of Delivery



**Link will be given in e-Learning Platform**

## 2.0 Course Structure

## 2.3 Teaching Strategy



**Lecture video will be uploaded in  
YouTube  
Facebook  
e-Learn platform**



## 2.0 Course Structure

## 2.4 Learning Material



**Oceania** e-Learning@UMT

Pelajar Ijazah Degree Students



### MMS3623 – MARINE RESOURCES MANAGEMENT

Dashboard / My Courses / MMS3623



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**Lecture information will be uploaded in  
e-Learning Platform**

## 2.0 Course Structure

## 2.5 Learning Notes



**Oceania** e-Learning@UMT

Pelajar Ijazah Degree Students



### MMS3623 – MARINE RESOURCES MANAGEMENT

Dashboard / My Courses / MMS3623

## LECTURE NOTES

### LECTURE 1 – INTRODUCTION TO MARINE RESOURCES

This lecture discusses the definition of marine resources, type of resources and how human associate with the resources. Students are given an opportunity to present the important and usage of marine resources.

### LECTURE 2 – CONSERVATION OF MARINE RESOURCES

This lecture discusses the importance of marine biodiversity to human and environment; and IUCN Redlist organisms. Students are given an opportunity to suggest how to protect the resources and present what is marine protected area.

### LECTURE 3 – POLLUTION OF MARINE RESOURCES

This lecture discusses the type and effect of pollution on marine resources. Students are given an opportunity to suggest prevention and control of marine pollution.

### LECTURE 4 – FISHERIES AND RESOURCES SUSTAINABILITY

This lecture discusses the fish population and stock in our ocean, and the importance to harvest the fisheries resources sustainably. Students are given an opportunity to suggest how to protect this resources for future generations.

### LECTURE 5 – SEAFOOD SAFETY AND SECURITY

This lecture discusses the seafood contamination by biological and chemical hazard, the seafood safety guidelines and quality control in the resources. Students are given an opportunity to suggest how to ensure the safety and quality of the seafood resources.

### LECTURE 6 – POLICIES AND ACTS TO MANAGE MARINE RESOURCES

This lecture discusses the laws and policies related to the marine resources management such as fisheries, coral reefs and mangrove ecosystem. Students are given an opportunity to suggest how to apply these policies if they act as policy makers.

**Lecture Notes will be uploaded in  
e-Learning Platform**



## 2.0 Course Structure

### 2.6 Video Related to the Marine Resources

-  Marine Resources
-  Sustainable Oceans: Marine Biodiversity for the Future We Want
-  How to Save Our Planet
-  Ocean Exploration and Sustainable Use of Marine Resources
-  Sustainable Use of Marine Resources
-  Marine Resources and Their Use
-  Sustainable Management of Marine Resources
-  The Economics of Marine Resources and Biodiversity
-  Marine Resources Documentary
-  Protecting Our Marine Resources

## 2.0 Course Structure

### 2.7 Assignments

#### ASSIGNMENT 1 – TYPES OF MARINE RESOURCES

What are the main marine resources that Malaysia have? Discuss in infographic form (Poster format) with pictures.

#### ASSIGNMENT 2 – MARINE POLLUTION

What are the main marine pollution that affected our environment? Discuss 5 types of pollution including sources and impact to human, organisms and environment.

#### ASSIGNMENT 3 – POLICIES RELATED TO MARINE RESOURCES

Imagine you are working with government that in charge the marine resources? Discuss how you can apply those policy to (1) fisheries resources; (2) marine park; (3) mangrove ecosystem.

**Assignment detail information will be uploaded in e-Learning Platform**

## 3.0 Others

### 3.1 Test / Final Exam Regulation

UMT is committed to honesty and academic integrity. There are serious consequences for plagiarism, collusion and cheating.

- You **CANNOT COPY** text or material from other sources (INTERNET/LECTURE NOTE) and present this as your own work.
- Your exam answers should be **ENTIRELY YOUR OWN WORK** without unacknowledged input from others.
- **PLAGARISM DETECTION SOFTWARE** (Turnitin) will be used to test the similarity from online sources.
- You must **NOT CO-OPERATE** with any other person when completing the exam, which must be entirely your own work.

## 3.0 Others

### 3.2 Reading List

1. Falque M, De Alessi M, Lamotte, H (2002). Marine Resources: Property Rights, Economics and Environment. JAI Press.
2. Ray GC, McCormick-Ray J (2013) Marine Conservation: Science, Policy, and Management. UK: John Wiley and Sons Ltd.
3. Bavinck M (2001) Marine Resource Management : Conflict and Regulation in the Fisheries of the Coromandel Coast. New Delhi: Sage Publications India.
4. Noone KJ, Sumaila UR, Diaz RJ (2013) Managing Ocean Environments in a Changing Climate : Sustainability and Economic Perspectives. Elsevier.
5. Techera E (2012) Marine Environmental Governance : From International Law to Local Practice. Abingdon, Oxon New York: Routledge.
6. Alexander KA (2019) Conflicts Over Marine and Coastal Common Resources : Causes, Governance and Prevention. Abingdon, Oxon: Routledge.

## 3.0 Others

### 3.3 Questionnaire for Students

COURSE EVALUATION  
**MMS3623 MARINE RESOURCES  
MANAGEMENT**

*No data in this section.*

*This course will be offered in next semester (October 2021) if the UMT Senate approve the course.*