

### Marine Coastal and Delta Sustainability for Southeast Asia

610327-EPP-1-2019-1-DE-EPPKA2-CBHE-JP



# FUNDAMENTALS OF CLIMATE CHANGE AND NATURAL DISASTERS Assoc. Prof. Le Anh Tuan



## **LECTURE NOTES**





#### Lecture notes

FUNDAMENTALS OF CLIMATE CHANGE AND NATURAL DISASTERS
Course Code: ER601

#### Chapter 1

**BASICS ON CLIMATE SCIENCES** 

#### Asscio.Prof.Dr Lê Anh Tuấn

Viện Nghiên cứu Biến đổi Khí hậu – Đại học Cần Thơ Khoa Môi trường và Tài nguyên Thiên Nhiên Trường Đại học Cần Thơ E-mail: latuan@ctu.edu.vn

- Level Master
- This document in available in Vietnamese.
- Target student audiences Master in Climate Change & Delta Management





The module equips students with the basics of climate, natural disasters and climate change, and scenarios of change in climate change research., Impacts of natural disasters and climate change aspects of life, production, identification of impact mitigation and adaptation measures, and disaster management.



## **LECTURE NOTE CONTENTS**



## **Topic 1 The Basics of Climate Science**

Equip climate science background, climate system concepts and related weather elements

## **Topic 2. Disaster Phenomena**

Understand general concepts of natural disasters on earth and feature some common disaster images.

## Topic 3. Climate Change and Sea Level Rise

Climate Change Awareness, Global Climate Change Evidence, Climate Change and Sea Level Rise scenarios, emphasis on Viet Nam





## LECTURE NOTE CONTENTS



## Topic 4. Impacts of Climate Change and Sea Level Rise

Understand the effects of climate change and rising water in different key sectors and industries.

## **Topic 5. Responding to Climate Change**

Introduction of effective mitigation measures to mitigate and adapt to climate change and sea level rise, examples in Vietnam and the Mekong Delta.

## **Topic 6. Disaster Risk Management**

Knowledge of natural disaster management at the government and

community level, following 3 sections before, during and after a disaster.

The European Commission support for the production of this publication does not constitute an endorsement of the contents

Co-funded by





## THANK YOU



## **LESSON – Slide Presentation**





#### Lecture notes

FUNDAMENTALS OF CLIMATE CHANGE AND NATURAL DISASTERS
Course Code: ER601

#### Chapter 2

#### **NATURAL DISASTER PHENOMENA**

#### Asscio.Prof.Dr Lê Anh Tuấn

Viện Nghiên cứu Biến đối Khí hậu – Đại học Cần Thơ Khoa Môi trường và Tài nguyên Thiên Nhiên Trường Đại học Cần Thơ E-mail: latuan@ctu.edu.vn



#### CONTENTS

#### Chapter 2. Natural disaster phenomena

- 2.1. Disaster Overview
- 2.2. Thunderstorm, Tropical Low Pressure, Storm
- 2.3. Floods and Droughts
- 2.4. Landslide and Subsidence



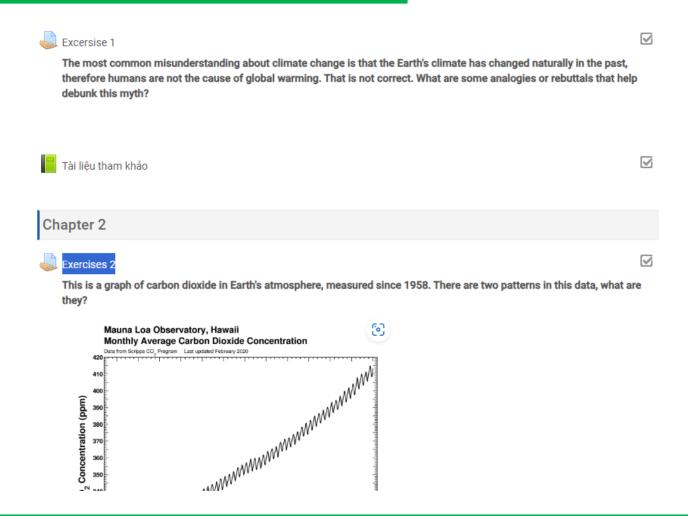






## **LESSON - Exercises**





The European Commission support for the production of this publication does not constitute an endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.





## **LESSON - Exercises**



#### Chapter 3



Exercise 3

 $\overline{\mathsf{V}}$ 

Finding the key factors relate to the causes and effects of human-induced climate change.

#### Chapter 4



Exercise 4

 $\subseteq$ 

Many of us are already familiar with solutions to climate change. While there are many actions we can take every day, it's important to focus on the solutions with the biggest result. Listing 10 most of the actions will reduce greenhouse emissions and will adapt climate change negative impacts?

#### Chapter 5



Excersise 5

 $\overline{\mathsf{V}}$ 

In your opinion, what are the responsibilities of countries that emit a lot of greenhouse gases that cause global warming?





## Survey

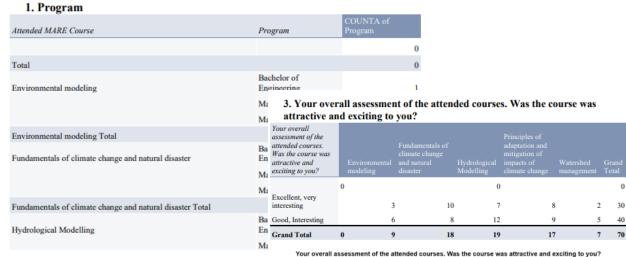
project/end-of-course-survey-mare-

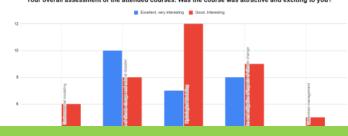
courses.html



## End of Course Survey(MARE Courses) All information obtained from this form will be protected. Thank you for your responses. Đăng nhập vào Google để lưu tiến trình của ban. Tìm hiểu thêm \* Biểu thi câu hỏi bắt buộc Email \* Email của ban Program \* Bachelor of Engineering Master of Science Master of Engineering https://wrd.ctu.edu.vn/projects/mare-

#### **End of Course Survey(MARE Courses)**





https://wrd.ctu.edu.vn/images/mare-project/feedbacksurvey/End\_of\_Course\_Survey\_final.pdf

The European Commission support for the production of this publication does not constitute an endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.



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



## List participant of course



Tên đệm và tên / Họ 🐣	Tên đăng nhập	Địa chỉ thư điện tử	Mã số ID	Vai trò	Nhóm	vào khóa học	Trạng thái
Tram Che Thi Bich	m2923004	tramM2923004@gstudent.ctu.edu.vn	M2923004	Sinh viên	Không phân nhóm	42 Các ngày 5 giờ	Đang hoạt động  (i) * X
Nhat Giap Minh	m2923003	nhatM2923003@gstudent.ctu.edu.vn	M2923003	Sinh viên	Không phân nhóm	42 Các ngày 3 giờ	Đang hoạt động  i 🔅 🗶
Quang Le Nhat	b2108508	quangB2108508@student.ctu.edu.vn	B2108508	Sinh viên	Không phân nhóm	7 Các ngày 12 giờ	Đang hoạt động
Huynh Vuong Thu Minh	001423	hvtminh@ctu.edu.vn	001423	Giảng viên, Giảng viên	Không phân nhóm	132 Các ngày 6 giờ	Đang hoạt động  (i) 🔅 🗶
Linh Ngo My	m2923002	linhM2923002@gstudent.ctu.edu.vn	M2923002	Sinh viên	Không phân nhóm	42 Các ngày 6 giờ	Đang hoạt động  i 🔅 🗶
Nguyen Dinh Giang Nam Nguyen	001668	ndgnam@ctu.edu.vn	001668	Giảng viên, Giảng viên	Không phân nhóm	Chưa lần nào	Đang hoạt động
Tuyen Nguyen Thi Mong	m2923005	tuyenM2923005@gstudent.ctu.edu.vn	M2923005	Sinh viên	Không phân nhóm	41 Các ngày 2 giờ	Đang hoạt động  (i) * X
		_		Ciảna			





## List participant of course



# THANK YOU