

Marine Coastal and Delta Sustainability for Southeast Asia 610327-EPP-1-2019-1-DE-EPPKA2-CBHE-JP



# **COURSE PRESENTATION**

# FUNDAMENTALS OF CLIMATE CHANGE AND NATURAL DISASTERS

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### **OVERVIEW**



- This is for course FUNDAMENTALS OF CLIMATE CHANGE AND NATURAL DISASTERS
- Site URL: <a href="https://elearning.ctu.edu.vn/course/view.php?id=2445">https://elearning.ctu.edu.vn/course/view.php?id=2445</a>
- Language: Vietnamese + English
- Modules:
  - Basics on Climate Sciences
  - Natural Disasters Phenomena
  - Climate Change and Sea Level Rise
  - Impacts of Climate Change and Sea Level Rise
  - Response to Climate Change and Sea Level Rise
  - Management of Natural Disaster Risks





### **MAIN PAGE**



#### Course sumarry

- · Lecturer: Assoc. Prof. Dr. Le Anh Tuan
- Email: latuan@ctu.edu.vn

Course Name: FUNDAMENTALS OF CLIMATE CHANGE AND NATURAL DISASTERS
The target audience: Master students in Climate Change & Delta Management
Number of credits: 3 ECTS

Type of the course: Required courses New/ updated course: .....

**The percentage of updated course:** 20% Key competences of updated course/new course: Adaptation Models in Agriculture and Aqualculture in the Mekong River Delta

Course developers: (name, organization): Le Anh Tuan, Can Tho University, Vietnam Briefly

#### Course contents:

- Chapter 1: Basics on Climate Sciences
- Chapter 2: Natural Disasters Phenomena
- Chapter 3: Climate Change and Sea Level Rise
- Chapter 4: Impacts of Climate Change and Sea Level Rise
- Chapter 5: Response to Climate Change and Sea Level Rise
- Chapter 6: Management of Natural Disaster Risks

Teaching methodologies: Interactive and self-reflective methods of teaching and learning.

#### Form of control:

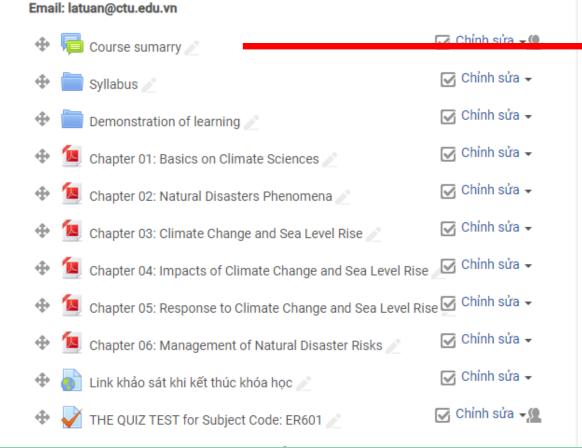
- Progress assessment (10%)
- Group report (30%):

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Lecturer: Assoc. Prof. Dr. Le Anh Tuan





### MAIN PAGE

MARE	

Lecturer: Assoc. Prof. Dr. Le Anh Tuan Email: latuan@ctu.edu.vn

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🜩 🚞 Demonstration of learning 🧪	🖌 Chỉnh sửa 🗸
💠 值 Chapter 01: Basics on Climate Sciences 🧪	💽 Chỉnh sửa 🗸
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Course Name: FUNDAMENTALS OF CLIMATE CHANGE AND NATURAL DISASTERS

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Chapter 1: Basics on Climate Sciences Chapter 2: Natural Disasters Phenomena Chapter 3: Climate Change and Sea Level Rise Chapter 4: Impacts of Climate Change and Sea Level Rise Chapter 5: Response to Climate Change and Sea Level Rise Chapter 6: Management of Natural Disaster Risks

Teaching methodologies: Interactive and self-reflective methods of teaching and learning.

Form of control:

- Progress assessment (10%)
- Group report (30%):
- Final examination (60%)

#### Teaching and learning materials (TLM)

Chapter 1. Basics on Climate Sciences					
Learning objectives	Equip climate science background, climate system concepts and related weather elements				
Learning outcomes	Knowledge and Skills to identify climatic phenomena and to explain on the basis of science				
Student deliverables	Questions & Answers and Plenary Discussion				
Topic materials	[1] Nguyen Duc Ngu (2008). Climate Change. Science and Technics				

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### **MAIN PAGE**



Lecturer: Assoc. Prof. Dr. Le Anh Tuan Email: latuan@ctu.edu.vn		End of Course Survey(MARE Courses) All information obtained from this form will be protected. Thank you for your responses.
\rm 🛱 Course sumarry 🧷	☑ Chỉnh sửa - ▲	Đăng nhập vào Google để lưu tiến trình của bạn. Tìm hiểu thêm * Biểu thị câu hỏi bắt buộc
<ul> <li>Syllabus </li> <li>Demonstration of learning </li> </ul>	<ul> <li>☑ Chỉnh sửa ▾</li> <li>☑ Chỉnh sửa ▾</li> </ul>	Email *
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<ul> <li>Chapter 04: Impacts of Climate Change and Sea Level Rise</li> <li>Chapter 05: Response to Climate Change and Sea Level Rise</li> </ul>		Bachelor of Engineering     Master of Science
<ul> <li>Chapter 06: Management of Natural Disaster Risks </li> </ul>	Chỉnh sửa ▾	Master of Engineering
<ul> <li>Link khảo sát khi kết thúc khóa học </li> <li>THE QUIZ TEST for Subject Code: ER601 </li> </ul>	<ul> <li>☑ Chỉnh sửa ▾</li> <li>☑ Chỉnh sửa ▾</li> </ul>	Attended MARE Course     Fundamentals of climate change and natural disaster

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## **LESSON PLAN**



#### Overview of sessions and teaching methods

The course will make most of interactive and self-reflective methods of teaching and learning and, where possible, avoid standing lectures and presentations.

#### Learning methods

- Project Based Learning
- Literature review
- Stakeholder analysis / customer consultation

#### **Course outline**

Week 1	Chapter 1: CLIMATE CHANGE MITIGATION AND ADAPTATION
Week 2	Chapter 2: VULNERABLE, RESILIENCE, AND COPING STRATEGY
Week 3	Chapter 3: GRID ECO-SYSTEM EVALUATION AND MANAGEMENT
Week 4	Chapter 4: GOVERMANCE AND SOCIAL SYSTEM
Week 5	Chapter 5: PROJECT DESING FOR FUTURE SOCIETY
Week 6	Exercise
Week 7	Practice

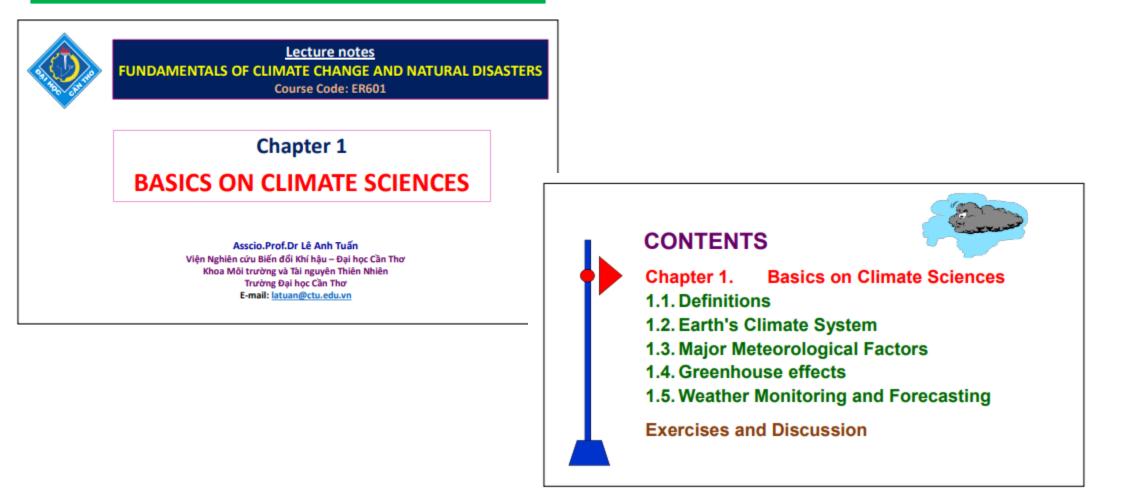
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# **LESSON – Slide Presentation**





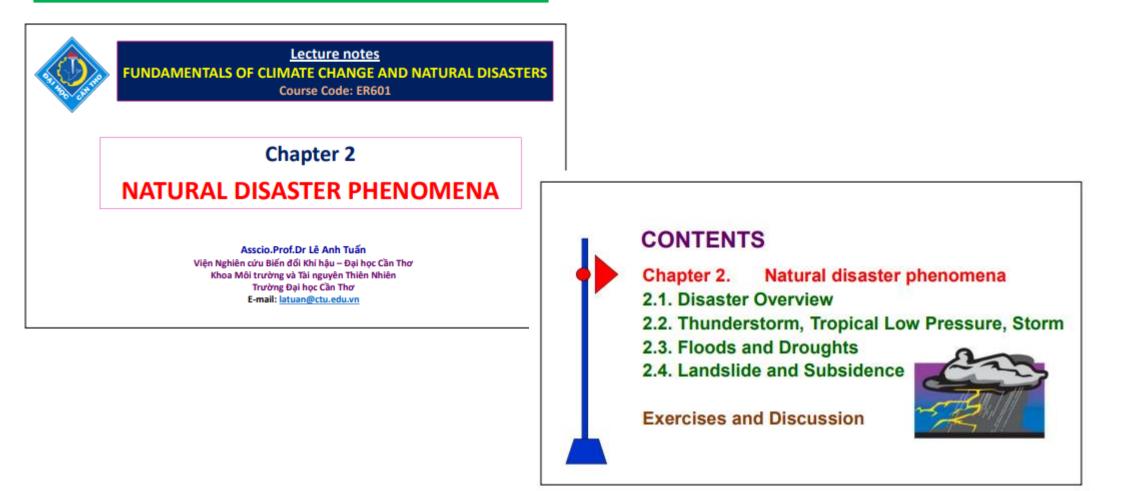
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# **LESSON – Slide Presentation**





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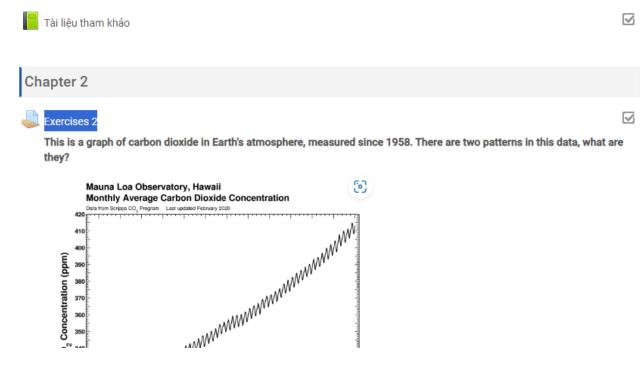


## **LESSON - Exercises**



#### Excersise 1

The most common misunderstanding about climate change is that the Earth's climate has changed naturally in the past, therefore humans are not the cause of global warming. That is not correct. What are some analogies or rebuttals that help debunk this myth?



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# **LESSON - Exercises**



Chapter 3

-	Exercise	3
-		_

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

#### Chapter 4



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

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

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### Survey



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\* Biểu thị câu hỏi bắt buộc

Email \*

Email của bạn

Program \*

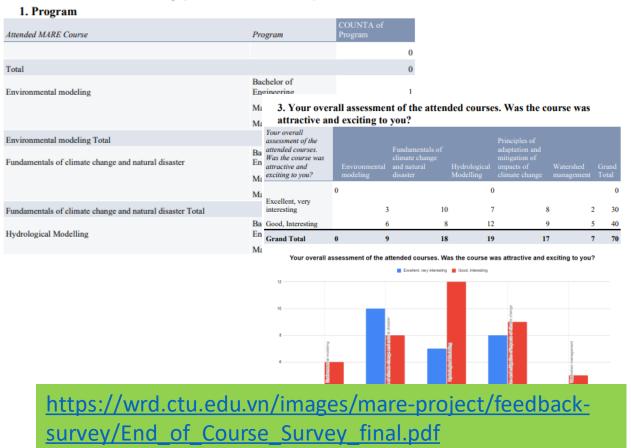
Bachelor of Engineering

Master of Science

Master of Engineering

#### https://wrd.ctu.edu.vn/projects/mareproject/end-of-course-survey-marecourses.html

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



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# List participant of course



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