

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





OVERVIEW



- This is for course FUNDAMENTALS OF CLIMATE CHANGE AND NATURAL DISASTERS
- Site URL: https://elearning.ctu.edu.vn/course/view.php?id=2445
- 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





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Lecturer: Assoc Prof Dr Le Anh Tuan

Lecturer: Assoc. Prof. Dr. Le Ann Tuan				
Emai	il: latuan@ctu.edu.vn			
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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

Email: latuan@ctu.edu.vn

Course sumarry

☑ Chỉnh sửa ▼

Syllabus

📝 Chỉnh sửa 🕶

Demonstration of learning

Chapter 01: Basics on Climate Sciences

Chỉnh sửa

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🕨 恆 Chapter 02: Natural Disasters Phenomena 🥒

🕜 Chỉnh sửa 🕶

💠 🔼 Chapter 03: Climate Change and Sea Level Rise 🧷

🕨 🔼 Chapter 05: Response to Climate Change and Sea Level Rise 🗹 Chỉnh sửa 🕶

♣ Link khảo sát khi kết thúc khóa học / Chỉnh sửa ▼

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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%):
- 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 Knowledge and Skills to identify climatic phenomena and to explain on to outcomes 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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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.			
Ф	Course sumarry	☑ Chỉnh sửa 📲	Đăng nhập vào Google để lưu tiến trình của bạn. Tìm hiểu thêm * Biểu thị câu hỏi bắt buộc			
Φ	Syllabus	☑ Chỉnh sửa ▾				
Φ	Demonstration of learning	☑ Chỉnh sửa ▾	Email *			
Φ	Chapter 01: Basics on Climate Sciences	☑ Chỉnh sửa ▾	Email của bạn			
Φ	Chapter 02: Natural Disasters Phenomena 🧷	☑ Chỉnh sửa ▾				
Φ	🔼 Chapter 03: Climate Change and Sea Level Rise 🥒	☑ Chỉnh sửa ▾	Program *			
Φ	Chapter 04: Impacts of Climate Change and Sea Level Rise	☑ Chỉnh sửa 🕶	Bachelor of Engineering Markov of Spirons			
Φ	Chapter 05: Response to Climate Change and Sea Level Rise	e ☑ Chỉnh sửa 🕶	Master of Science Master of Engineering			
Φ	Chapter 06: Management of Natural Disaster Risks 🥒	☑ Chỉnh sửa ▾				
Φ	Link khảo sát khi kết thúc khóa học 🥒	Chỉnh sửa ▼	Attended MARE Course			
Ф	THE QUIZ TEST for Subject Code: ER601	☑ Chỉnh sửa 📲	Fundamentals of climate change and natural disaster			





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





LESSON - Slide Presentation





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 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 1. Basics on Climate Sciences
- 1.1. Definitions
- 1.2. Earth's Climate System
- 1.3. Major Meteorological Factors
- 1.4. Greenhouse effects
- 1.5. Weather Monitoring and Forecasting

Exercises and Discussion







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





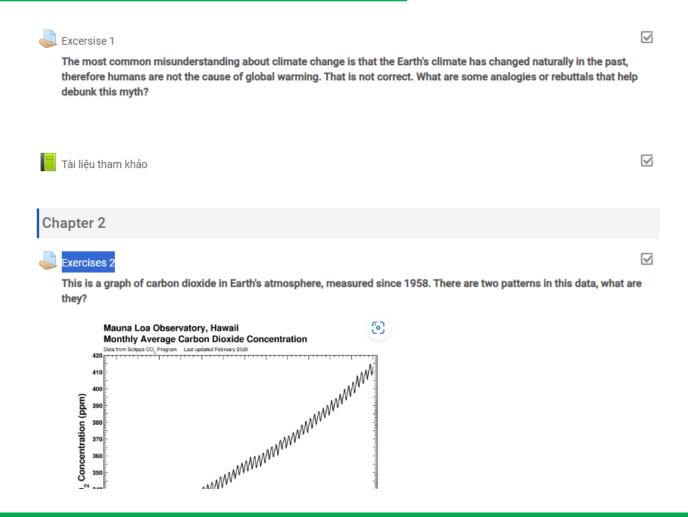






LESSON - Exercises









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



Exercise 4

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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

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





Survey

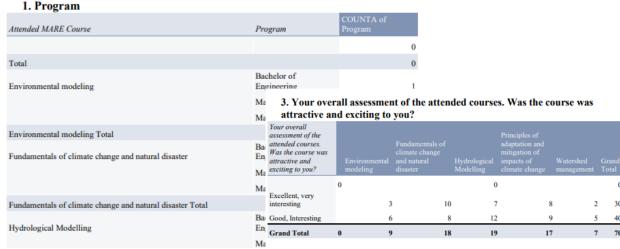
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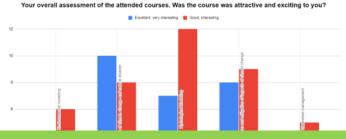
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End of Course Survey(MARE Courses)





https://wrd.ctu.edu.vn/images/mare-project/feedbacksurvey/End of Course Survey final.pdf

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List participant of course



THANK YOU