

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



COURSE PRESENTATION

HYDROLOGICAL MODELLING

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OVERVIEW



- This is for course HYDROLOGICAL MODELLING
- Site URL: https://elearning.ctu.edu.vn/course/view.php?id=2449
- Language: Vietnamese + English
- Modules:
 - The deterministic model
 - Random pattern
 - Random pattern
 - Statistical analysis in Hydrological calculation
- Practice
 - Lessons 1. HEC-HMS model
 - Lessons 2. Artificial intelligence network model ANN
 - Practice Lessons 3. Statistical analysis









Main Page

Summary

Slide bài giảng

Summary

Lecturer: Assoc. Prof. Tran Van Ty, Dr. Huynh Vuong Thu Minh

Email: tvty@ctu.edu.vn, hvtminh@ctu.edu.vn

In this 3 ECTS course, students will be provided systematically about the basic concepts of modeling and the process of building and simulating applied mathematical modeling. Expertise in math modeling currently applied in the field of hydrology and problems related to water resource use in the Mekong Delta, Vietnam and around the world.

Hydrological Modelling Syllabus

🔰 Link khảo sát khi kết thúc khóa học

Topic 1: Hydrological model concept

Learning General and applied knowledge related to hydrographic model objectives

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MAIN PAGE - Syllabus



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Lecturer: Assoc. Prof. Tran Van Ty, Dr. Huynh Vuong Thu Minh Email: tvty@ctu.edu.vn, hvtminh@ctu.edu.vn

Summary

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Hydrological Modelling Syllabus

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Topic 1: Hydrological model concept

Learning objectives

General and applied knowledge related to hydrographic model





HYDROLOGICAL MODELLING (3 ECTS) Fall semester, 2021-2022

Cocordinator	College of Technology
Credits	3 ECTS
Lecturers	Trần Văn Tỷ, Huỳnh Vương Thu Minh
Level	Master
Host institution	Can Tho University
Course duration	30 hours

Summary

In this 3 ECTS course, students will be provided systematically about the basic concepts of modeling and the process of building and simulating applied mathematical modeling. Expertise in math modeling currently applied in the field of hydrology and problems related to water resource use in the Mekong Delta, Vietnam and around the world.

Target student audiences

Master in Hydraulics Engineering

Prerequisites

Required courses (or equivalents): NO

Aims and objectives

- · Students grasp common mathematical modeling processes and concepts
- · Knowledge of basic concepts and calculation methods of all kinds of hydrological problems.
- · Applying mathematical model to hydrological problems related to exploitation use, water resource management such as calculation of flow characteristics, hydrological forecasting, balance calculation and water resource use planning, flood prevention planning, integrated management in the original country.

Authentic Tasks:

Desired learning outcomes:

By the end of the course, successful students will

Knowledge · Understand the concept and process of building general mathematical models · Applying the mathematical model to the hydrological problem related to the exploitation and management of water resources such as calculating the flow characteristics, hydrological forecasts, calculating balance and planning the use of water resources., flood prevention planning, integrated management in the whole country. · Apply random and statistical models to the analysis of hydrological MARE Erosmus+ CBHE Marine Coastal and Delta Sustainability for Southeast Asia

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MAIN PAGE – Chapter

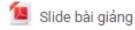
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Main Page

Lecturer: Assoc. Prof. Tran Van Ty, Dr. Huynh Vuong Thu Minh

Email: tvty@ctu.edu.vn, hvtminh@ctu.edu.vn





Hydrological Modelling Syllabus

🔰 Link khảo sát khi kết thúc khóa học

Topic 1: Hydrological model concept

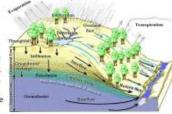
 Learning objectives	General and applied knowledge related to hydrographic model
objectives	



Hydrological Modelling (3 ECTS)

Lecturer: Dr. Tran Van Ty Dr. Huynh Vuong Thu Minh

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Course's Description

The course is designed to provide learners with knowledge and skills in conceptual modeling, physical principles of the water cycle, hydrological systems, and the steps involved in developing hydrological modeling. The course also covers deterministic and stochastic hydrological models, as well as statistics model application.

Cooordinator	College of Technology	
Credits	3 ECTS	
Lecturers	Tran Van Ty, Huynh Vuong Thu Minh	
Level	Master	

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Main Page	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 bạn. Tìm hiểu thêm
Lecturer: Assoc. Prof. Tran Van Ty, Dr. Huynh Vuong Thu Minh Email: tvty@ctu.edu.vn, hvtminh@ctu.edu.vn	* Biểu thị câu hỏi bắt buộc
Commany	Email *
🖲 Slide bài giảng	Email của bạn
Hydrological Modelling Syllabus	Program *
Link khảo sát khi kết thúc khóa học	Bachelor of Engineering
	O Master of Science
Topic 1: Hydrological model concept	Master of Engineering
Learning General and applied knowledge related to hydrographic model objectives	Attended MARE Course

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Course outline

Week	Topics
Week 1&2	Topic 1: The deterministic model
Week 3&4	Topic 2: Random pattern
Week 5&6	Topic 3: Random pattern
Week 7&8	Topic 4: Statistical analysis in Hydrological calculation
Week 9-11	Practice Lessons 1. HEC-HMS model
Week 12-13	Practice Lessons 2. Artificial intelligence network model ANN
Week 14-15	Practice Lessons 3. Statistical analysis

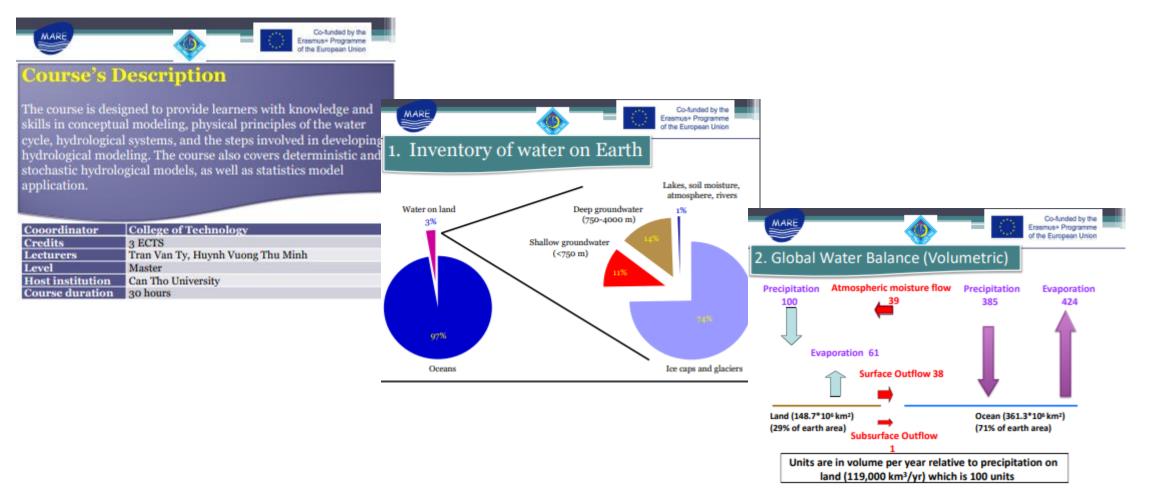
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Survey



End of Course Survey(MARE Courses)

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* Biểu thị câu hỏi bắt buộc

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Email của bạn

Program *

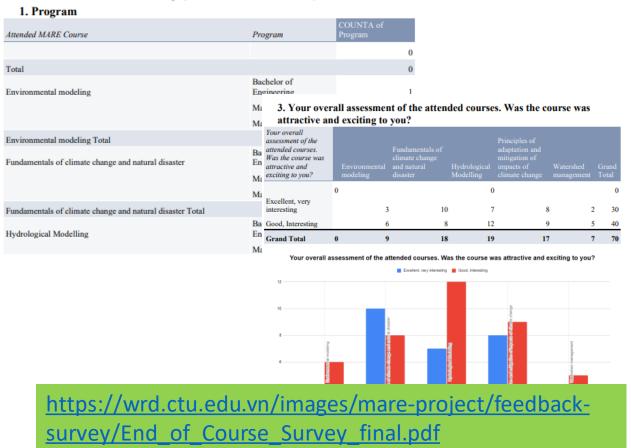
Bachelor of Engineering

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



	Tên đệm và tên / Họ ^đ	Tên đăng nhập —	Địa chỉ thư điện tử	Mã số ID	Vai trò	Nhóm	cuối vào khóa học	Trạng thái
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