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ABSTRACT OF CTU ACTIVITIES ON MARE PROJECT

MARE is an Erasmus+ CBHE project (2020-2023) that aims to develop adaptive, end-user-oriented, and internationally relevant curricula to support sustainable management and governance of partner countries Malaysia and Vietnam's coastal and adjacent marine areas. The project is funded from the European Union (EU) under the Erasmus+ for a duration of 2020 – 2023. The grant for Can Tho University (Vietnam) is 75,172 Euro. The action will mostly focus on Bachelor's and Master's levels (revision of curricula, development of new courses and modernization of existing ones, launching of new specialization streams), however it will also address selected aspects of doctoral provision (development of multidisciplinary research agenda, development of organizational capacity for networking and joint research).

In accordance with the project activity plan, in CTU side, some project results have been noted as:

- The infrastructure was modernized at all partner universities aimed by introducing modern ICT technologies into the training of academia in the field of marine environment and coastal ecosystem. The equipment has been installed at CTU: Designing the room, facilities for establishing computer lab; and installation of equipment for online meeting rooms. Thanks these facilities, many online teaching and meeting workshop have been done, especially in the COVID-19 pandemic period. The equipment purchase procedure has been delayed due to the financial policy change by Vietnam Government.
- CTU has participated in revising 5 Master's course, including:
 - (i) Fundamentals of climate change and natural (3 ECTS);
 - (ii) Principles of adaptation and mitigation of impacts of climate change (3 ECTS);
 - (iii) Environmental modeling (3 ECTS);
 - (iv) (Hydrological Modelling (3 ECTS); and
 - (v) Watershed management (3 ECTS).
- Teaching and Learning Materials (TLM): CTU has provided lecture notes, reading materials, and has created E-learning for 5 master courses using Platform Moodle. A guideline for online teaching and learning has been introduced: <https://helpdesk.ctu.edu.vn/day-hoc-truc-tuyen/69-hdsd-thi-truc-tuyen>
- In addition, CTU, HCMUNRE, VMU, VNIO, and MCD have collaborated on a book titled “*Natural resources and environment in coastal areas of Vietnam*”. This book contains seven chapters:
 - Chapter 1. Geographic characteristics of marine resources of Vietnam (conducted by CTU);
 - Chapter 2. Coastal areas in the Red river delta (conducted by MCD);
 - Chapter 3. Coastal Areas in the center of Vietnam (conducted by VNIO);
 - Chapter 4. Coastal Areas in the Mekong Delta (conducted by CTU);
 - Chapter 5. Issues of natural resources in coastal areas of Vietnam (conducted by HCMUNRE);



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- Chapter 6. Environmental issues in coastal areas of Vietnam (conducted by VMU); and
- Chapter 7. International conventions, laws and policies of Vietnam on marine management (conducted by CTU, HCMUNRE, VNIO, VMU, MCD).

In the year 2022, two book writing discussion meetings were held in Ho Chi Minh City and Hai Phong City. In June, 2023, we will have a e-book meeting organized in Nha Trang City, conducted by VNIO.

And another book with titled “*Water management in the Mekong Delta in the context of climate change*” has been being written by CTU leaching staff team. This book focuses on water resource assessment, including surface, groundwater, and rainfall, as well as water resource management challenges in the context of climate change in the Mekong River Delta of Vietnam.

- MARE - CTU has participated training activities:
 - 01 summer schools (large international open call training events hold annually) took place in 2022, and
 - 01 webinars with a series of online webinars that cover various topic on groundwater resources management took placed in 2021.
 - Besides that, CTU has participated in 3 project meetings in Catania (Italy) in May 2022, Malaysia in Nov., 2022 and in Hai Phong, Viet Nam in Dec., 2022. We are planning to patriciate more 2 the project training in Mazara del Vallo city, Italy in May 2023, and Estonia in August 2023.
- For MARE project communication and promotion works, CTU has:
 - Published a leaflet and a poster for introducing the MARE project in CTU;
 - In the spirit of celebrating World Water Day 22 March 2022, two Projects MARE and INOWASIA together with the Department of Water Resources, College of Environment and Natural Resources, Can Tho University have organized a Seminar on the Webinar platform, named Groundwater in the Mekong Delta of Vietnam: Current status and Sustainable exploitation. This is one of collaboration activities on scientific exchange under the Memorandum of Understanding (MoU) agreement signed between the two Projects of Can Tho University. There were 83 participants joined the seminar. They are Bachelor and Master students of Can Tho University and some come from water-related Mekong Provincial Departments staff members.
 - Organized an introduction event of the MARE project in Enrollment Counseling Day to young students at Can Tho University in March 2022. The printed leaflets were delivered to young students.
 - Developed a web-link of the MARE project in CTU internet platform: <https://wrd.ctu.edu.vn/projects/mare-project.html>
- A final project meeting will be held in Ho Chi Minh City in August 2023, organized by HCMUNRE.

The project has strongly supported the development of adaptive, end-user-oriented, and internationally relevant curricula to support the sustainable management and governance of partner countries' coastal



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and adjacent marine areas: Malaysia and Vietnam. To meet the future development of information technology, many modules in the Master's program have been revised, and online courses have been launched.