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## REPORT FROM P5- THE THIRD PERIOD

(15/01/2021 - 14/07/2021)



Prepared by Thoa Le, Department of Marine Resources and Environment Management  
Ho Chi Minh City University of Natural Resources and Environment

Date: 12 June 2021

### WP2: Curricula and learning contents

#### WP2.1. Revision of existing and development of new BSc/MSc courses

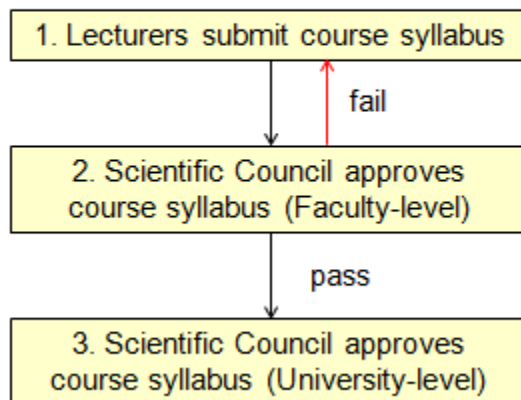
Seven online courses have been developed for BSc. student major in marine resources and environment management, in which 2 courses are existed in bachelor programme and the remain are new one in bachelor programme. The details are as follows:

Level of studies	The title of an academic program, course or curricula to be updated with new subjects	Short name of online courses	Number of credits	Accreditation body (can be at departmental, university or national levels)	Partners	Estimated date of accreditation	Estimated starting date, dd/mm/yy	Number of students to be accepted in the first year	Number of students to be accepted in the second year
BSc	<b>1-Marine ecology</b> Existing Bachelor Programme Module 1: Coastal science and management Teachers: Phan Minh Thu; Nguyen Van Tu	MARE-P5-05	3 credits (4,5 ECTS)	University level	VNIO (HCMUNRE join)	October 2021	April 2022	15 HCMUNRE	10 HCMUNRE
BSc	<b>2-Management of marine resources and environment</b> New Bachelor Programme: Module 1: Coastal science and management Teachers: Nguyen Van Tin; Nguyen Ky Phung; Tran Thi Kim	MARE-P5-06	2 credits (3 ECTS)	University level	HCMUNRE	October 2021	April 2022	15 HCMUNRE	10 HCMUNRE
BSc	<b>3-River-sea interactions</b> New Bachelor Programme: Module 3: Delta science and management Teachers: Bui Hong Long; Ngo Nam Thinh; Le Quang Toai	MARE-P5-07	3 credits (4,5 ECTS)	University level	VNIO (HCMUNRE join)	October 2021	April 2022	15 HCMUNRE	10 HCMUNRE

Level of studies	The title of an academic program, course or curricula to be updated with new subjects	Short name of online courses	Number of credits	Accreditation body (can be at departmental, university or national levels)	Partners	Estimated date of accreditation	Estimated starting date, dd/mm/yy	Number of students to be accepted in the first year	Number of students to be accepted in the second year
BSc	<b>4- Fisheries Oceanography</b> New Bachelor Programme Module 4: Fisheries, seabed resources & food security: Teachers: Hoang Xuan Ben; Phan Minh Thu; Huỳnh Thanh sang	MARE-P5-02	2 credits (3 ECTS)	University level	VNIO (HCMUNRE join)	September 2021	December 2021	15 HCMUNRE	10 HCMUNRE
BSc	<b>5- Port and Marine Construction</b> New Bachelor Programme Module 5: Offshore exploration & mining: Teachers: Tran Duc Phu; Dinh Ngoc Huy	MARE-P5-03	2 credits (3 ECTS)	University level	VMU (HCMUNRE join)	September 2021	December 2021	15 HCMUNRE	10 HCMUNRE
BSc	<b>6- Modeling the marine environment</b> Existing BSc. Programme Module 6: Marine pollution control and management Teachers: Dang Thi Thanh Le, Nguyen Ky Phung, Tran Thi Kim	MARE-P5-01	3 credits (4,5 ECTS)	University level	HCMUNRE	August 2021	November 2021	15 HCMUNRE	10 HCMUNRE
BSc	<b>7- Control of marine pollution</b> New Bachelor Programme Module 6: Marine pollution control and management Teachers: Dang Thi Thanh Le, Nguyen Ky Phung	MARE-P5-04	2 credits (3 ECTS)	University level	HCMUNRE	October 2021	April 2022	15 HCMUNRE	10 HCMUNRE

- The procedure of accreditation these online courses as follows

### Procedure of accreditation



- Course syllabi template (English and vietnamese) can be viewed at

<https://marehcm.biendaohcm.com/?p=6174>

- Learning outcome, teaching methodology, course materials,... of seven online courses can be seen in the course syllabi. All these syllabi can be viewed at

<https://marehcm.biendaohcm.com/?p=6063>

- Course materials are available online at the online library of the faculty of marine resources and environment management- MAREM. The link can be viewed at <https://thuvienso.biendaohcm.com/>
- Comment and evaluation sheets on the detailed online course outlines from internal and external reviewers (academic institutions, EU project partners) can be viewed at <https://marehcm.biendaohcm.com/?p=6419>
- Online courses compilation plan in the MARE project from P5, including accreditation plan for the courses can be viewed at [https://marehcm.biendaohcm.com/?page\\_id=6404](https://marehcm.biendaohcm.com/?page_id=6404)

## WP2.2 Development of PhD research framework

- 2 PhD students from P5- HCMUNRE. They are Ngo Nam Thinh and Tran Thi Kim from Department of Marine Resources management.

Their research titles focuss on:

- PhD student Ngo Nam Thinh. Research topic "Research for building a rip current model and its application on Bai Dai beach". Supervisor: Assoc. Prof. Dr. Nguyen Thi Bay, Ho Chi Minh City University of Technology. Organization of PhD study:
- PhD student Tran Thi Kim. Research topic "Study on hydrodynamic regime and evaporation of sediments in the coastal estuaries of Soc Trang province using numerical models on curvilinear coordinates". Supervisor Prof. Dr. Nguyen Ky Phung, Ho Chi Minh City University of Natural Resources and Environment. Organization of PhD study:

## WP3 Development e-services

### WP3.1 Deployment and implementation of elearning platform

#### ❖ The list of the required equipment for development online courses

<i>No. Items</i>	<i>Name of equipment</i>	<i>Qty.</i>	<i>Descriptions</i>
1	<b>Laptop Dell Vostro 5490</b> - Microprocessor: Intel Core i7 10510U 1.8Ghz Up to 4.9Ghz-8Mb - RAM memory: 8GB, onboard, DDR4, 2666MHz - Hard drive capacity: 512GB M.2 PCIe NVMe Solid State Drive - Fingerprint Sensor: Yes - Monitor: 14.0-inch FHD (1920 x 1080) Anti-glare LED Backlight - Graphics card: NVIDIA® GeForce® MX250 with 2GB GDDR5 graphics memory	2	Use for staff purpose in the MARE project

	<ul style="list-style-type: none"> <li>- Connection: 802.11ac 1x1 WiFi and Bluetooth</li> <li>- Operating system: Windows 10 Home</li> <li>- Battery: 3-Cell, 42 WHr, Integrated battery</li> <li>- Ports: 1Micro SD Media Card Reader (SD, SDHC, SDXC)</li> </ul>		
2	<p><b>CPU Dell OptiPlex 5070 SFF</b></p> <ul style="list-style-type: none"> <li>- Processor: Intel® Core™ i7-9700 (8 Cores/12MB/8T/3.0GHz to 4.8GHz/65W)</li> <li>- Mainboard: Intel Q370 Chipset</li> <li>- Ram: 8GB 2666MHz DDR4 Memory; 2 slots support up to 64GB 2666MHz DDR4 Memory</li> <li>- Hard Drive: 1TB 7200 RPM SATA 6Gb/s (64MB Cache)</li> <li>- Graphics: Intel UHD 630 Graphics with shared graphics memory</li> <li>- Audio: Realtek High Definition Audio Codec (supports multiple streaming)</li> <li>- Optical Drive: 8x DVD+/-RW 9.5mm</li> <li>- Ports: 1 USB 3.1 Gen 2 Type-C™ (front); 5 USB 3.1 Type-A (1 front/4 rear); 4 USB 2.0 (2 front/2 rear); 1 RJ-45; 2 Display Port 1.2; 1 UAJ; 1 Line-out; 1 optional Port (VGA/DP/HDMI 2.0b/Serial+PS/2)</li> </ul> <p><b>Monitor Dell 20" Professional P2018H LED</b></p> <ul style="list-style-type: none"> <li>- Device Type: LED-backlit LCD monitor - 20"</li> <li>- Panel Type : TN (Twisted Nematic)</li> <li>- Native Resolution: 1600 x 900 at 60Hz</li> <li>- Contrast Ratio: 1000: 1 (typical)</li> <li>- Color Gamut (typical):84% (CIE 1976), 72% (CIE 1931)</li> <li>- Color Depth: 16.7 Million colors</li> <li>- Features: USB hub</li> <li>- Aspect Ratio: 16:09</li> <li>- Brightness: 250 cd/m2 (typical)</li> <li>- Response Time: 5 ms (black to white)</li> <li>- Input Connectors: HDMI, VGA, DisplayPort</li> </ul>	20 set	Using for developing, training and teaching students
3	<p><b>Sony FDR-AXP55 4K camcorder (built-in projector)</b></p> <ul style="list-style-type: none"> <li>- Recording format: XAVC S 4K, XAVC S HD, AVCHD, MP4</li> <li>- Image sensor: 1/2.5 type(7.20mm) back-illuminated Exmor R CMOS Sensor</li> <li>- Still image resolution: 8.29 MP</li> <li>- Internal memory: Flash Memory 64GB</li> </ul>	1	Using for recording video lectures

	<ul style="list-style-type: none"> <li>- Image processor: BIONZ X</li> <li>- Image stabilization: Balanced Optical SteadyShot w/ Intelligent Active mode(5-axis)</li> <li>- Lens : ZEISS Vario-Sonnar T*</li> <li>- Focus angle of view (35mm conversion): 26.8mm</li> <li>- Aperture : 2.0 - 3.8</li> <li>- Optical zoom: 20x</li> <li>- Clear zoom image: 30x (4K), 40x (HD) (zoom KTS: 250x)</li> </ul>		
4	<p><b>Cisco AIR-AP2802E-S-K9 802.11ac W2 AP w / CA Wifi transmitter; 4x4: 3; Ext Ant; 2xGbE, S Domain</b></p> <ul style="list-style-type: none"> <li>- Integrated antennas : Flexible radio (either 2.4 GHz or 5 GHz)</li> <li>- 2.4 GHz, gain 4 dBi, External antenna, omnidirectional in azimuth</li> <li>- 5 GHz, gain 6 dBi, External directional antenna, elevation plane beamwidth 90°</li> <li>Dedicated 5-GHz radio</li> <li>- 5 GHz, gain 5 dBi, External antenna, omnidirectional in azimuth</li> <li>- Interfaces: 2x100/1000BASE-T autosensing (RJ-45)</li> </ul>	2	Using for setting up the LAN system within computer lab

#### ❖ The status of purchasing of the equipment

- Receiving the payment for purchasing equipment on April 2021 (After 2 failed transfers)
- Solving the problem of VAT not including in the invoice by
  - + Organising the meeting with Rector of University, Department of Finance, Department of Science technology and External Relations to find out the solution (Done)
  - + Sending the letter to Ho Chi Minh tax authority about VAT for confirmation of purchasing equipment being not recoverable (in process)
- Check if the list of procurement equipment for the project still exists in the market (done)
- Asked three companies to provide a quotation of procurement equipment for the MARE project (done)
- Sending the letter to Ministry of Natural resources and Environment for approval of the equipment list with the quotation provided by three companies (in progress)
- Invite contractors to bid for a list of procurement equipment (widely publicized in the press) (not yet)

- Organizing contractor selection (not yet)
- Review of proposal and Contract Negotiation (not yet)
- Submitting, appraising, approving and publicizing contractor selection results. (not yet)
- Sign the contract with the contractor (not yet)
- The contractor provides equipment according to the agreed contract time (not yet)

#### ❖ **Installation of the equipment**

- Organising the meeting with rector of HCMUNRE for providing the room of installing the equipment. (done)
- Designing the room, facilities for establishing computer lab (in process)
- The contractor provides equipment according to the agreed contract time (not yet)
- Installation of equipment (not yet)

#### ❖ **Installation of eLearning Platform**

- Choose the elearning platform for developing online courses: moodle
- Investigating on (1) how to install and set up LMS in department website; (2) Important plugins that need to be included in the e-learning system; (3) How to create the online course; (4) How to make the online course more lively and attractive to learners?;
- Choosing the software for recording and editing lecture video: camtasia
- Investigating on how to use the camtasia software for editing video
- Creating the elearning platform at <https://elearning.biendaohcm.com/>



## WP3.2 Development of eLearning modules

### ❖ Design the interface of the e-learning platform

- Design User Interface: identifying what elements need to develop for users easy to access, understand, and use to facilitate available for student to enroll the courses.
- + Requirement:
  - (1) All students/ guests can view available courses including course' summary.
  - (2) Students have to enroll to access the online courses
  - (3) Student will receive the information through mail automatically to login the elearning system after paying fee for the course
  - (4) User guide for accessing the elearning system

The link of elearning platform interface at <https://elearning.biendaohcm.com/moodle/>

## KHÓA HỌC TRỰC TUYẾN - ONLINE COURSES



**Khoa Quản lý Tài nguyên Biển và Hải đảo - MAREM, Trường Đại học Tài nguyên và Môi trường TP.HCM**

Địa chỉ: 236B Lê Văn Sỹ, Phường 1, Quận Tân Bình, TP. HCM, Việt Nam  
Điện thoại: 028-39914492 Email: qitnbienhaidao@hcmunre.edu.vn  
Website: <https://biendaohcm.com> Fanpage: <https://www.facebook.com/KhoaBienDao>

Hướng dẫn sử dụng (Nhấp vào để xem/dóng lại) - User Guide (Click to view and close)

Search courses

### Available courses

#### Tương tác sông biển - River sea interactions



Số Tín chỉ: 2 TC (3 ECTS)

Mã môn học - Enrollment key - MARE-P5-07

**Tóm tắt môn học:** Cung cấp kiến thức về ảnh hưởng của sông đối với biển; xác định các vấn đề khoa học về ranh giới tác động của biển đến hệ thống sông. [Đọc thêm ...]

**Summary:** Provide the knowledge of the influence of the river into the sea; identify scientific issue of upper boundary of sea impacts into the river. [Read more ...]

[Đăng ký khóa học - Enroll Now](#)

#### Quản lý tài nguyên và môi trường biển- Marine resources and environment management



Số Tín chỉ: 2 TC (3 ECTS)

Mã môn học - Enrollment key - MARE-P5-06

**Tóm tắt môn học:** Môn học cung cấp những kiến thức cơ bản về tài nguyên biển và hải đảo, các công cụ quản lý tài nguyên biển. [Đọc thêm ...]

**Summary:** The course provides basic knowledge about the resources of the sea and islands, tools for the management of marine resources. [Read more ...]

[Đăng ký Khóa học - Enroll Now](#)

- Create the online course on the e-learning system based on the course syllabi

Mã môn học: MARE-P5-07

**Giảng viên: Bùi Hồng Long**

Email: .....

Điện thoại: 1322397856

Thông báo của Giáo viên đến sinh viên- Announcement

Diễn đàn trao đổi - Discussion forum

### Bài 1. Giới thiệu về các cửa sông - Introduction to estuaries

Bài Giảng - Online Lecture

Tài liệu tham khảo - Course materials

Câu hỏi ôn tập- Check your knowledge

Câu hỏi trắc nghiệm - Quiz

Thảo luận trực tuyến - Chat

Thảo luận trên diễn đàn - Q&A Forum

Khảo sát bài học - Feedback



- Organising the online meeting with VN partners who are engaged in compiling online courses for P5. (in process)
- Hosting online seminar for teaching those above staff on how to create, update their lecture on the e-learning system. (not yet)
- Create an account for quality control team to log in to the e-learning system (not yet. In order to doing this, P5 needs the emails of EU partners' staff and NGOs' staff who in charge of testing and quality control of the elearning system)

### **WP3.3 Development of eScience modules for doctoral students**

- All information related to PhD students in P5 including list of PhD students, list of supervisors, research topics, Organisation of the study and Regulations and guide lines can be viewed at [https://marehcm.biendaohcm.com/?page\\_id=6102](https://marehcm.biendaohcm.com/?page_id=6102)
- PhD student Ngo Nam Thinh eportfolio can be viewed at [https://marehcm.biendaohcm.com/?page\\_id=6504](https://marehcm.biendaohcm.com/?page_id=6504)
- PhD student Tran Thi Kim eportfolio can be viewed at the link [https://marehcm.biendaohcm.com/?page\\_id=6437](https://marehcm.biendaohcm.com/?page_id=6437)
- Regulations and guide lines of PhD students can be viewed at [https://marehcm.biendaohcm.com/?page\\_id=6102](https://marehcm.biendaohcm.com/?page_id=6102)
- HCMUNRE don't have PhD course/ research, 2 PhD students from P5 study in other institutes/university.

## **WP4 Development of governance and organisational arrangements**

### **WP4.1 Establishment of sectoral collaborative platforms in each PC**

- In order to facilitate communication and personal interaction in corporate the MARE project, VN partners have use several collaborative platforms such as Zalo group, Google meet, Stran, Zoom, Ms Teams.

+ **Zalo:** Set up different professional groups on Zalo such as

- Project coordination group: including 7 staff from VN partners
- Researcher group: including 28 staff from VN partners
- Technicians group: including 4 technicians, 5 administrators, and 5 project leaders from P5, P6, P7, P8, P9
- Administrative group: including 4 administrators, 2 staff, and 5 project leaders from P5, P6, P7, P8, P9

These groups operate as often as needed.

**Project leader-MARE**  
7 7 thành viên

**Bình chọn**  
Hợp với Anton. Các partners chọn những ngày mình có thể họp được trong tuần sau.

c vẫn hà kmt tham gia cuộc bình chọn "Hợp với Anton. Các partners chọn những ngày mình có thể họp được trong tuần sau.". [Bình chọn](#)

**Hợp với Anton. Các partners chọn những ngày mình có thể họp được trong tuần sau.**  
Đã có 19 lượt bình chọn ▶

Ngày	Thời gian	Số lượt
Thứ 4, 24/3/2021	3:00 - 4:00 pm	5
Thứ 3, 23/3/2021	3:00 - 4:00 pm	4
Thứ 6, 26/3/2021	3:00 - 4:00 pm	4

\* Còn 3 lựa chọn khác

[Xem lựa chọn](#)

14:13 24/03/2021

3 pm họp với Anton nhé mọi người

**Thành viên**  
Thêm thành viên

**Danh sách thành viên (7)**

- Lê Thoa  
Trưởng nhóm
- a tuần ttcc dh cần thơ
- c vẫn hà kmt
- Nam VMU
- TM Thu Mcd Hp
- TM Thu Minh CTU
- thu viện hnh nha trang

Project leader group in Zalo

**MARE-chuyên môn**  
28 28 thành viên

**Tin nhắn**  
Lê Thoa: Vậy thầy cô thu xếp công việc, 30/6\_2/7 là tham dự HT nha

Google Drive này chỉ cho đọc chứ chưa cho phép sửa

17:11

1

sao anh ko gửi request? em nhập cho phép là Ok hà

17:13

a tuần ttcc dh cần thơ

HD PHD-student-VNU-Partners

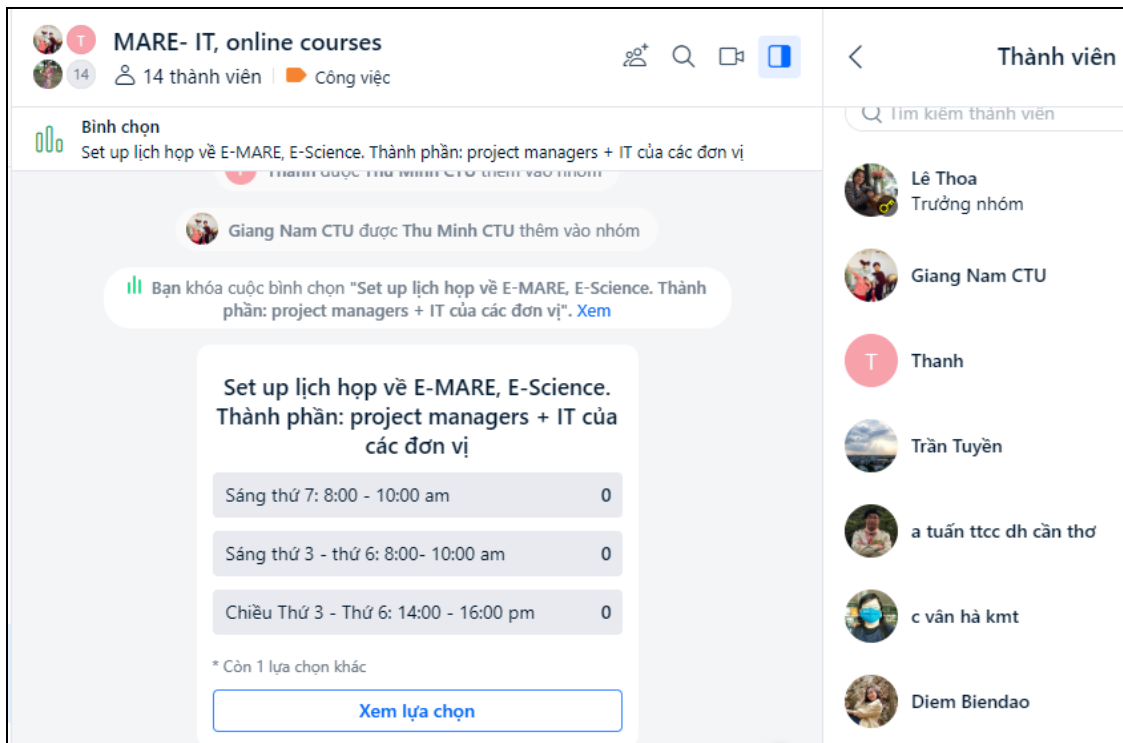
Gửi request rồi

17:14

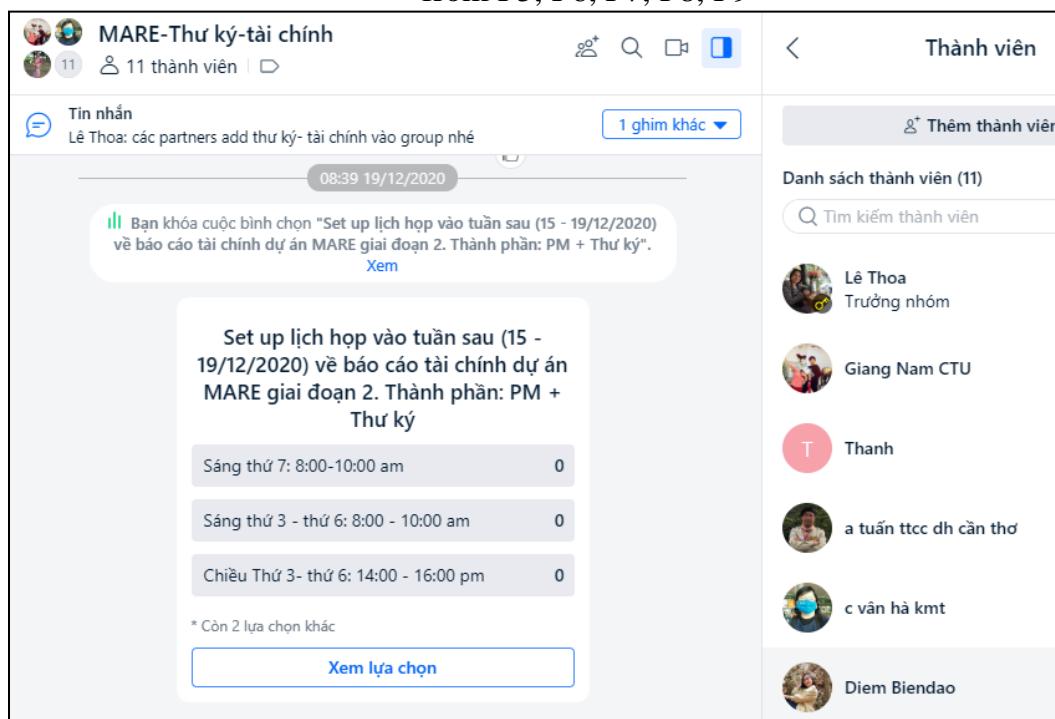
**Thành viên**

- AK A Kỳ Phung Skhcn
- a tuần ttcc dh cần thơ
- Diem Biendao
- hằng dhhh Hà Nội
- Huy Biendao
- Huyền
- Kim Biendao
- Lam Van Thinh

Researcher group: including 28 staff from VN partners



Technicians group: including 4 technician staff, 5 administrator, 5 project leaders from P5, P6, P7, P8, P9



Administrative group: including 4 administrators, 2 staff, and 5 project leaders from P5, P6, P7, P8, P9

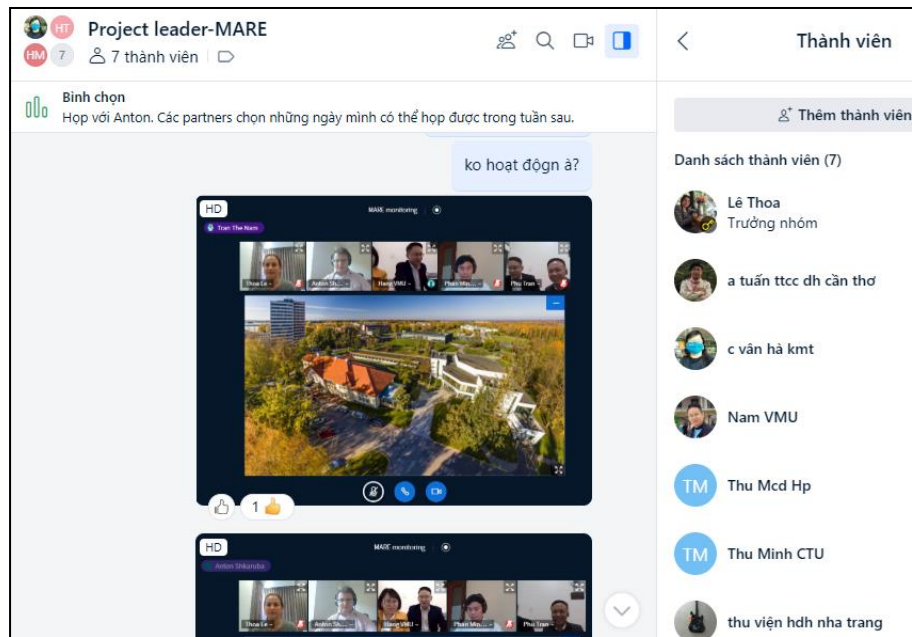
+ Google Meet, Zoom, STran, Ms Teams are setting for online meeting

#### **WP4.2 Development of arrangements for credit and physical mobility, sharing of experimental facilities, joint MSc & PhD supervision and research collaboration**

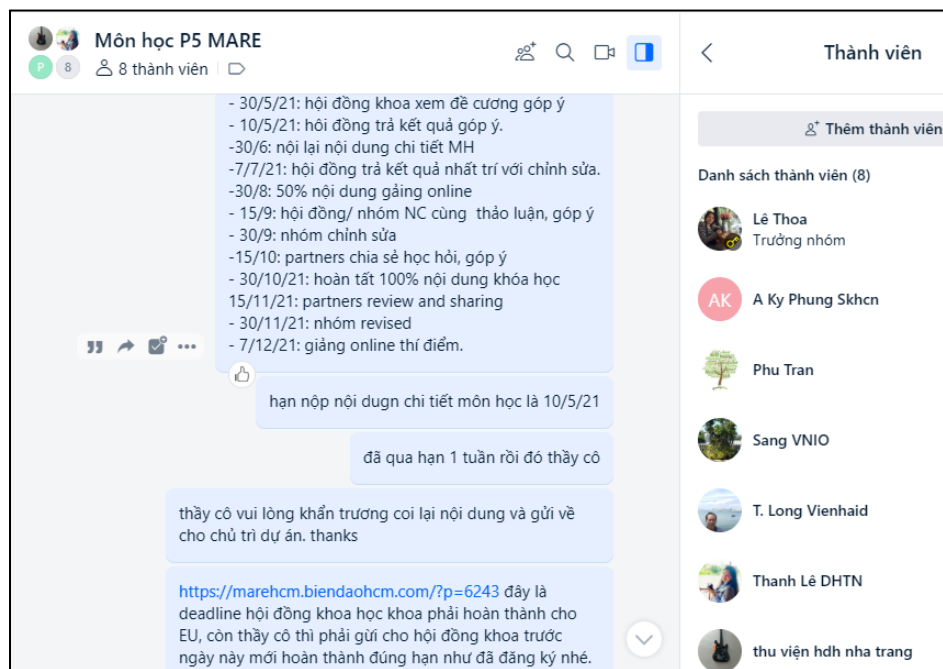
- Seven online courses for P5 students are compiled with the cooperation of three partners: HCMUNRE- P5, VMU-P6 and VNIO-P9. To do this, the lecturers of the three partners conducted many exchanges and discussions on the course syllabus and necessary contents to be put into teaching for undergraduate students of P5 through the zalo media.
- In addition, the project leaders from P5, P6, P7, P9 also discussed the possibility of collaborating in research such as joint writing of journal papers and seminars. However, these plans were not implemented due to the impact of the Covid-19 epidemic.
- VN partners also discussed about the ability of organizing some lectures for PhD students in P5, P6, P9 to help them gain more knowledge for their research topic. Unfortunately, we haven't found out the suitable lecture that fix for all PhD students due to their research topic is very specific.
- VN partners also discussed about the ability for sharing learning resources such as course materials through the electronic libraries. P5 has developed the electronic library website <https://thuvienso.biendaohcm.com/> and happy to share this resource with VN partners.

#### **WP6.4 Running of collaborative sectoral platforms**

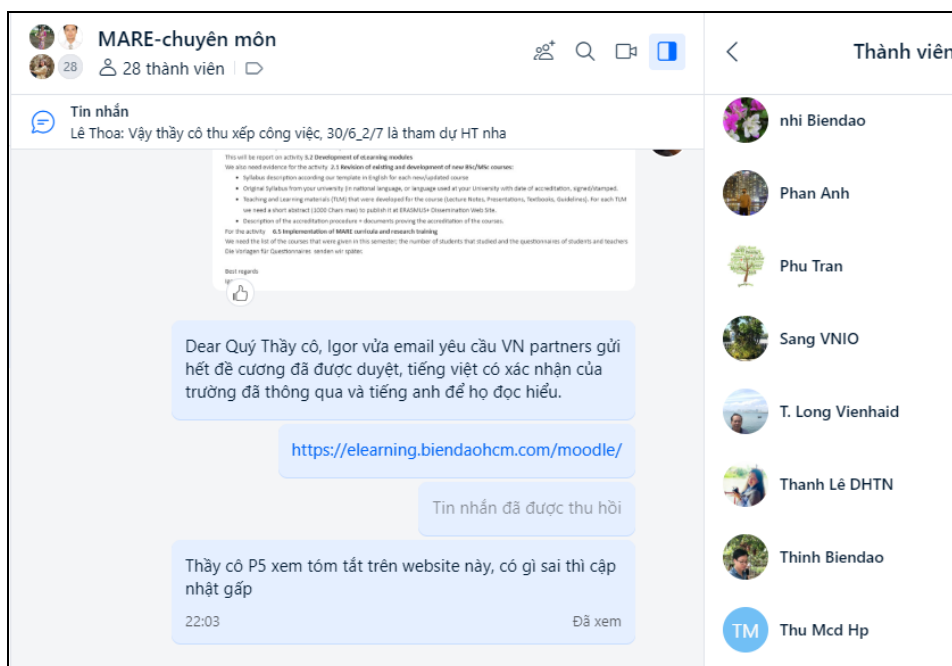
- Zalo is a frequently used communication platform to exchange information between partners.



- Internal information exchange between members who compiled lectures for P5



- Zalo communication across VN partners



- Google meet, Zoom, MsTeam also used for exchange sometimes

#### WP6.5 Implementation of MARE curricula and research training

- The earliest course to open online is on 22 November 2021, it will fall in the next semester. see at link [https://marehcm.biendaohcm.com/?page\\_id=6404](https://marehcm.biendaohcm.com/?page_id=6404)

Course' name	Expected start and end date
Modelling marine environment (4.5 ECTS)	22 Nov 21 - 21 Mar 22
Fisheries Oceanography (3ECTS)	22 Nov 21 - 24 Jan 22
Port and marine constructions (3ECTS)	27 Dec 21 - 21 Mar 22
Control marine polutions (3ECTS)	21 Mar 22 -23 May 22
Management of marine resources and environment (3ECTS)	4 Apr 22 - 6 Jun 22
Marine ecology (4.5 ECTS)	21 Mar 22 -27 Jun 22
River sea interactions (3ECTS)	4 Apr 22 - 6 Jun 22

