



Going Global Partnership **Blue Energy for Blue Economy** June-July 2022

VIRTUAL PROGRAM **BLUE ENERGY FOR BLUE ECONOMY** 20–23 and 27–30 June, 2022

A. Program Overview

To continue the successful accomplishment of previous collaboration between ITS and Heriot-Watt University in the Blue Energy and Blue Economy project, 2021, the program is currently proceeding into virtual program and on-site project implementation in Eastern Indonesia. The virtual program will be conducted in two (2) weeks with the combination of international students from Heriot-Watt University and Indonesian students/lecturers from ITS and Eastern Part of Indonesian universities. The students are going to have a chance to experience the class with the current updated curriculum on sustainable blue energy and blue economy. The lecturers on this course will consist of academics, professionals, and also expertise on the subject which are from ITS, Heriot-Watt University, and Aquateira Ltd. The best students will be selected and invited to join two weeks on-site project implementation that will be conducted in one of Eastern Indonesia regions.

B. Timeline

Activities	Timeline	
	Week-1	Week-2
Short Course	20 - 23 June 2022	27 - 30 June
On-site Project	Week 3-4 of July (<i>to be informed</i>)	

ITS Global Engagement

Global Kampoeng Building
 Kampus Institut Teknologi Sepuluh Nopember Surabaya
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C. Agenda

Day	Date	Time (GMT+7)	Time (UK Time)	Topic
1	Monday, June 20, 2022	15.30-17.45	09.30 - 11.45	Opening & Pre-Test
		17.45-18.15	11.45 - 12.15	<i>Break</i>
		18.15-20.30	12.15 - 14.30	Energy in the 21st Century: Decarbonisation Agenda & Energy Transition
2	Tuesday, June 21, 2022	15.30-17.45	09.30 - 11.45	Economics of Renewable Energy
		17.45-18.15	11.45 - 12.15	<i>Break</i>
		18.15-20.30	12.15 - 14.30	Coastal Blue Economy
3	Wednesday, June 22, 2022	15.30-17.45	09.30 - 11.45	Environmental Policy & Risk
		17.45-18.15	11.45 - 12.15	<i>Break</i>
		18.15-20.30	12.15 - 14.30	Oceanography & Marine Ecology
4	Thursday, June 23, 2022	15.30-17.45	09.30 - 11.45	<ul style="list-style-type: none"> • Introduction to Tidal Energy Conversion System • Case studies (large and small or lab-scale and on-site installations)
		17.45-18.15	11.45 - 12.15	<i>Break</i>
		18.15-20.30	12.15 - 14.30	<ul style="list-style-type: none"> • Introduction to Wave Energy Conversion • Case studies (large and small or lab-scale and on-site installations)
5	Monday, June 27, 2022	15.30-17.45	09.30 - 11.45	Marine Renewable Technologies
		17.45-18.15	11.45 - 12.15	<i>Break</i>
		18.15-20.30	12.15 - 14.30	Renewable Technology: Integration
6	Tuesday, June 28, 2022	15.30-17.45	09.30 - 11.45	Engineering Economics
		17.45-18.15	11.45 - 12.15	<i>Break</i>
		18.15-20.30	12.15 - 14.30	<ul style="list-style-type: none"> • Blue Energy for Blue Economy: Social and Cultural Approach • Case studies

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7	Wednesday, June 29, 2022	15.30-17.45	09.30 - 11.45	Theory of Inventive Problem Solving (TRIZ) in Blue Energy for Blue Economy
		17.45-18.15	11.45 - 12.15	<i>Break</i>
		18.15-20.30	12.15 - 14.30	Development Appraisal
8	Thursday, June 30, 2022	15.30-17.45	09.30 - 11.45	Development Project (Ensuring Initiative's Sustainability: Multi-stakeholders' Engagement & Business Model)
		17.45-18.15	11.45 - 12.15	<i>Break</i>
		18.15-20.30	12.15 - 14.30	Closing & Final Test

D. Qualifications and Requirements

- **Requirement for Indonesian participants (student & lecturer)**
 1. Undergraduate students (all year) / post-graduate students / junior lecturer
 2. Have good English skills both written and spoken
 3. Have an educational background from any major with the strong interest in the development of Blue Energy & Blue Economy in Indonesia
 4. Highly motivated and committed to attend all the session during the program
 5. Scan of student/lecturer ID Card
- **Requirement for Heriot Watt University students**
 1. Undergraduate or postgraduate students at Heriot-Watt University
 2. Have an educational background from any major with the strong interest in the development of Blue Energy & Blue Economy in Indonesia
 3. Highly motivated and committed to attend all the session during the program
 4. Formal photo
 5. Passport / ID Card / Student Card

E. Registration

Please kindly visit this following link to register in this program:

<https://bit.ly/BlueEnergyEconomy>
No later than 22 May, 2022

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F. Credit Transfer Scheme

- As to support the program of Indonesia's freedom of learning (*Merdeka Belajar Kampus Merdeka*), participants are allowed to claim credit transfer of this program.
- This program shortens 16 meetings in a semester into 2-weeks intensive class.
- This program consists of 3 SKS / 1.7 ECTS with the detail as follow:

3 SKS x 50 minutes x 16 meetings = 2400 minutes = **40 hours**

G. Credit Transfer Assesment

To claim the credit transfer on this program, participants have to attend in minimum 80% of total scheduled-sessions/classes. There are 16 sessions in 8 meetings.

Grade will be based on:

- Class participation : 15%
- TWIL (*That's What I Learn*) Assignments : 35%
- Post-test : 15%
- Project & final presentation : 35%

H. Visa Information for International Students

Students who will visit Indonesia for a short program (less than 60 days) are currently allowed to use Visa on Arrival (VoA). Students may arrange their own VoA in the arrival airport in Indonesia. By having VoA, students are eligible to stay in Indonesia for 30 days:

- Visa on Arrival Fee: IDR 500.000
- Requirements: Valid Passport, Vaccine Certificate, PCR negative result, Proof of Hotel Reservation, and Return Ticket.

Further information regarding Visa on Arrival: <https://www.imigrasi.go.id/en/permohonan-visa-republik-indonesia-wisata-b211a/>

I. Contact Person

Email : international@its.ac.id (*Subject: Blue Energy for Blue Economy*)
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