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COME!

Costal and Marine Sustainability Enacted


Universiti Teknologi PETRONAS & Universiti Kuala Lumpur (Malaysia), August 15-28, 2022

The Summer School is organised under Erasmus+ CBHE projects MARE "Marine Coastal and Delta Sustainability for Southeast Asia" (<https://mare-project.net>)

Day to day program

Day 1 – Monday, 15th August 2022

Summer School Opening Day

UTP Campus			
			
No	Time	Format, Lecture room	Event
1.	10.00-10.10	Undercroft – 80pax	Opening speech – Institute Director
2.	10.10-10.30		Introductory speech – Deputy Vice Chancellor Research & Innovation
3.	10.30-10.50		Welcoming speech – Vice Chancellor Photo session with the VC
4.	11.00 – 11.20		Official Opening of Summer School 2022 by MARE Project leadership - <i>Dr. Holger Auel</i>
5.	11.20 – 12.00		Introduction of Summer School participants.
6.	12.00 – 13.00		Program and organizational arrangements. Briefing of Programme
7.	13.00 – 14.00	Lunch	
8.	14.00 -15.00		Lecture: Prof. Kalev Sepp , Estonian University of Life Sciences Introduction: global and regional sustainability – from policy concepts to the management action
	15.00 -17.30	Chancellor Complex & CETaL	UTP Campus Tour & CETaL Laboratory Visit to 1. Civil Engineering Department (Wave tank facility) 2. Sedimentology Lab-Rock Physics Lab Visualization Lab (for subsurface data-seismic, well) at CSI and SEACaRL

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Day 2 – Tuesday, 16th August 2022

Plenary and parallel sessions

No	Time	Format, Lecture room	Event	
1.	9.00 -11.00	Plenary session	Lecture: Dr. Holger Auel , University of Bremen: Marine Productivity, Food Webs, and Strategies for a Sustainable Use of Marine Living Resources	
2.	11.00-13.00	Parallel sessions	Lecture: Dr Muhammad Hafeez Jeofry , Universiti Malaysia Terengganu Title: Sea level rise from ice-sheet melting using CMIP6 model: Impact for Marine Sustainability	Lecture: Siiri Külm , Estonian University of Life Sciences Data integration and participatory process in developing integrated coastal zone management (ICZM). Example of the Eastern Baltic Sea
3.	13.00 – 15.00	Lunch		
4.	15.00 – 17.00	Parallel sessions	Lecture: Dr Shamila Azman , Universiti Teknologi Malaysia Title: Coastal Wetlands and Mangroves	Practical exercise: Siiri Külm, Lagle Lõhmus , Mapping Ecosystem Services of Coastal areas. Ecosystem services matrix – expert evaluation. Ecosystem Services hot and cold spots

Day 3 – Wednesday, 17th August 2022

Educational Trip to UniKL – MIMET, Lumut

No	Time	Format, Lecture room	Event
	8.30	Bus for 71 pax	Educational Trip to UniKL – MIMET, Lumut
			Lunch
			Dinner hosted by UniKL Return to UTP

Day 4 – Thursday, 18th August 2022

Plenary and parallel sessions

No	Time	Lecture room	Event	
1.	9.00 -11.00	Plenary session	Lecture: Prof. Kalev Sepp , Estonian University of Life Sciences Ecosystem Service concept. Methods for mapping and assessment of ecosystem services. ES concept in Environmental Policy (implications for coastal spatial planning and management)	
2.	11.00-13.00	Plenary session	PETRONAS Talk (TBC date)	Practical exercise: Dr. Anne Kull , Estonian University of Life Sciences

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				Defining Ecosystem services of Coastal areas (carbon storage and sequestration, etc.) using QGIS <i>(beginning)</i>
3.	13.00 – 15.00	Lunch		
	15.00 – 17.00	Parallel sessions	Practical exercise: Dr. Daniele La Rosa , University of Catania Positive effects of trees on climate regulation, carbon sequestration and noise reduction	Practical exercise: Dr. Anne Kull , Estonian University of Life Sciences Defining Ecosystem services of Coastal areas (carbon storage and sequestration, etc.) using QGIS <i>(continued)</i>

Day 5 – Friday, 19th August 2022

Plenary and parallel sessions

No	Time	Lecture room	Event	
1.	9.00 -11.00	Plenary session	Lecture: Dr. Vincenzo Maccarrone , Institute for Marine Biological Resources and Biotechnology of the Italian National Research Council – (IRBIM-CNR) Anthropocene speaks: impact on the coastal areas	
2.	11.00-13.00	Parallel sessions	Lecture: Dr Teh Hee Min , Universiti Teknologi PETRONAS Title: Coastal Structures	Lecture: Dr Siti Nur Fathiyah , Universiti Teknologi PETRONAS Title: Delta Environment and Hydrocarbon Potential: Present-day Analogue
3.	13.00 – 15.00	Lunch (and Friday prayer for Muslims)		
4.	15.00 – 17.00		Lecture: Dr. Pietro Scandura , University of Catania Hydromorphodynamics of the coastal area	Lecture: an overview of Mekong delta (TBC)

Day 6 – Saturday, 20th August 2022

Educational Fieldwork & Site visits to Seri Tanjung Pinang 2, Tg. Tokong, Penang

Aim: Familiarize with the construction technologies used for coastal reclamation (a dedicated leaflet for the trip tba)

Day 7 – Sunday, 21st August 2022

Educational Fieldwork & Site visits to Seri Tanjung Pinang 2, Tg. Tokong, Penang (cont)

Aim: Determine the environmental impacts caused by the reclamation operations and the control measures (a dedicated leaflet for the trip tba)

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Day 8 – Monday, 22nd August 2022

at UniKL

<i>No</i>	<i>Time</i>	<i>Format, Lecture room</i>	<i>Event</i>
1.	10.00 – 11.00	<i>Lecture, TBC</i>	UniKL MIMET's Presentation
2.	11.00 – 13.00	<i>Lecture, TBC</i>	Asia Marine Design Centre (AMDeC) Marginal Oil Field Platform: Is it sustainable
3.	13.00 – 14.00	Lunch	
4.	14.00 – 17.00	<i>Lecture, TBC</i>	Dr Mohd Redzuan Zoofakar Green Ship: What will the future hold
5.	17.00		Return to UTP

Day 9 -Tuesday, 23rd August 2022

at UniKL

<i>No</i>	<i>Time</i>	<i>Format, Lecture room</i>	<i>Event</i>
1.	10.00 – 13.00	<i>Lecture</i>	VALE Mineral Malaysia S/B Socio-economy vs Sustainability Plan
2.	13.00 – 14.00	Lunch	
3.	14.00 – 17.00	<i>Lecture</i>	VALE Mineral Malaysia S/B Remain sustainable yet dear to community's heart
4.	17.00		Return to UTP

Day 10 – Wednesday, 24th August 2022

at UniKL

<i>No</i>	<i>Time</i>	<i>Format, Lecture room</i>	<i>Event</i>
1.	10.00 – 13.00	<i>Lecture</i>	Lumut Port Facing the future
2.	13.00 – 14.00	Lunch	
3.	14.00 – 17.00	<i>Lecture</i>	Lumut Port Green Port
4.	17.00		Return to UTP

Day 11 – Thursday, 25th August 2022

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at UniKL



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<i>No</i>	<i>Time</i>	<i>Format, Lecture room</i>	<i>Event</i>
1.	10.00 – 13.00	<i>Lecture</i>	Lecture: UniKL Maritime Management Section Supply chain and logistic demand: How to remain sustainable
2.	13.00 – 14.00		Lunch
3.	14.00 – 17.00	<i>Lecture</i>	Lecture: UniKL MICET Sustaining coastal environment ecosystem
4.	17.00		Return to UTP

Day 12 – Friday, 26th August 2022

at UniKL

<i>No</i>	<i>Time</i>	<i>Lecture room</i>	<i>Event</i>
1.	10.00 -13.00	<i>Lecture and discussion</i>	Educational talk by local authorities / NGO (TBC)
2.	13.00 – 15.00		Lunch (and Friday Prayer for Muslims)
3.	15.00 - 17.00	<i>Lecture</i>	Meeting with VALE's representative (TBC)
4.	17.00		Return to UTP

Day 13 – Saturday, 27th August 2022

Educational Visit to Tin Mine Cavern (Gua Tempurung)

Aim: Exposing students to the marine environment (shallow water) that was formed thousands of years ago and has been now exposed inshore.

Day 14 – Sunday, 28th August 2022

Educational Visit to TT5: Tin Dredge Mining

Aim: Exposing students on management of tin mines within Malaysia: impact to delta sustainability

Day 15 – Monday, 29th August 2022)

Day of Departure

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