

SCHEDULE

INTERNATIONAL SUMMER COURSE ON HUMANITARIAN ENGINEERING: THE ROLE OF ENGINEERS AND SCIENTISTS DURING PANDEMIC ERA

DATE	TIME (Indonesian time) **)	COURSE TITLE	RESOURCES PERSON/LECTURER	LEARNING ACTIVITIES	DURATION
Monday, July 5, 2021	10:00	Opening Session	Dr. Intan Supraba (Organizer)	-	-
Tuesday, July 6, 2021	10:00 - 13:00	Invention of GeNose to detect Covid-19 in Indonesia	Prof. Kuwat Triyana (UGM)	a. Lecture: 2 hours b. Quizz and discussion: 1 hour	3 hours
	15:00 – 18:00	Interdisciplinary Collaborations with Engineers to Create Impact	Prof. Juliana Sutanto (Lancaster University)	a. Lecture: 2 hours b. Quizz and discussion: 1 hour	3 hours
Wednesday, July 7, 2021	10:00 - 13:00	Working from home as a scientist or engineer during COVID-19 pandemic	Effendi Widjaja, PhD. (MNC Pharmaceutical, Singapore)	a. Lecture: 2 hours b. Quizz and discussion: 1 hour	3 hours
	14:00 – 16:00	Post Disaster Housing Reconstruction during Covid-19 Pandemic	Prof. Krishna Suryanto Pribadi (ITB)	a. Lecture: 2 hours b. Quizz and discussion: 1 hour	3 hours
Thursday, July 8, 2021	10:00 – 13:00	Microalgae biorefinery for sustainable development	Dr. Eko Agus Suyono, S.Si., M.App.Sc. (UGM)	a. Lecture: 2 hours b. Quizz and discussion: 1 hour	3 hours
	14:00 – 16:00	Challenges and Opportunities for engineers post COVID-19	Dr. Vu Van Nghi (Ho Chi Minh University of Transport)	a. Lecture: 2 hours b. Quizz and discussion: 1 hour	3 hours
Friday, July 9, 2021	09:00 – 11:30	Women and Mobility: Mind the Gap!	Dr. Masria Mustafa (Universiti Teknologi MARA)	a. Lecture: 1 hours b. Quizz and discussion: 1 hour	2 hours
	14:00 – 16:30	The impact of COVID-19: How engineers are making a difference?	Dr. Hazrina Mansor (Universiti Teknologi MARA)	a. Lecture: 1 hours b. Quizz and discussion: 1 hour	2 hours
	17:00 – 19:30	Sustainable COVID-19 vaccine supply chain?	Dr. Iskandar Halim (Institute of Chemical and Engineering Sciences, A*Star, Singapore)	a. Lecture: 1 hours b. Quizz and discussion: 1 hour	2 hours
Saturday, July 10, 2021	10:00 – 13:00	Sustainable Solid Waste Management in Malaysia	Dr. Marfiah binti Ab.Wahid (Universiti Teknologi MARA)	a. Lecture: 2 hours b. Quizz and discussion: 1 hour	3 hours
	15:00 – 17:00	Integrated Biorefineries for Circular Green Economy	Dr. Irnia Nurika (Universitas Brawijaya)	a. Lecture: 1 hours b. Quizz and discussion: 1 hour	2 hours
	17:00 – 19:00	The Impacts of COVID-19 Pandemic on the Construction Industries and Acceleration of Digitalization	Ir. Dr Julian Lee (Cinntek International, New Zealand)	a. Lecture: 1 hours b. Quizz and discussion: 1 hour	2 hours
Sunday, July 11, 2021					
Monday, July 12, 2021	10:00 – 12:00	Cross-shore Sediment Transport in the Nearshore Zone	Dr. Takayuki Suzuki (Yokohama National University)	a. Lecture: 1 hours b. Quizz and discussion: 1 hour	2 hours
	12:00 – 14:00	Current Practice for Crossing, Retainment & Protection of Slopes	ENGR. MOHD RIZAL AHMAD (REINFORCED EARTH MALAYSIA SDN BHD, Malaysia)	a. Lecture: 1 hours b. Quizz and discussion: 1 hour	2 hours
	14:30 – 16:30	HUMAN ENGINEERING: 'MIND' YOUR MIND	DR. ANGZZAS SARI MOHD KASSIM (UTHM, Malaysia)	a. Lecture: 1 hours b. Quizz and discussion: 1 hour	2 hours
	16:30 – 18:30	<i>tba</i>	Assoc. Prof. Dr. Muhammad Hussain Ismail (Universiti Teknologi MARA, Malaysia)	a. Lecture: 1 hours b. Quizz and discussion: 1 hour	2 hours
Tuesday, July 13, 2021	09:00 – 12:00	Blessing in Disguise: Accelerating Innovative and Adaptive Ideas in Energy Sector Following COVID-19"	Prof. Muhammad Aziz (Tokyo University)	a. Lecture: 2 hours b. Quizz and discussion: 1 hour	3 hours
	13:00 – 15:00	Application of Dredged Marine Soil for a Sustainable Construction	Prof. Chan Chee Ming (UTHM, Malaysia)	a. Lecture: 2 hours b. Quizz and discussion: 1 hour	3 hours
Wednesday, July 14, 2021	10:00 – 13:00	Inhaled Therapy for Superinfection in Covid-19 Patients (keywords: lung infection, pulmonary drug delivery)	Assoc. Prof. Kunn Hadinata (NTU, Singapore)	a. Lecture: 2 hours b. Quizz and discussion: 1 hour	3 hours
	15:00 – 18:00	Seismology and Earthquake Hazard	Dr. Wolfgang Bruestle (Professional, Germany)	a. Lecture: 2 hours b. Quizz and discussion: 1 hour	3 hours
Thursday, July 15, 2021	10:00 – 13:00	Improving tsunami preparedness in Indonesia	Prof Radiana Triatmadja (UGM)	a. Lecture: 2 hours b. Quizz and discussion: 1 hour	3 hours
	15:00 – 17:00	Challenges and opportunities in Engineering Higher Education in the pandemic era	Prof. Georgia Kremmyda (University of Warwick)	a. Lecture: 1 hours b. Quizz and discussion: 1 hour	2 hours
	17:00 – 19:00	Exploring the potential of photocatalytic nanofiber in the treatment of wastewater.	Ts. Dr. Nur Hashimah Alias (Universiti Teknologi MARA, Malaysia)	a. Lecture: 1 hours b. Quizz and discussion: 1 hour	2 hours
Friday, July 16, 2021	09:00 – 11:00	BIM integration for post pandemic construction	N.V. Kumaran (Bina Initiatives Sdn Bhd, Malaysia)	a. Lecture: 1 hours b. Quizz and discussion: 1 hour	2 hours
	13:30 - 15:30	Bioremediation technology for wastewater treatment: Phycoremediation strategies and potentials	Assoc. Prof. Dr Norshuhaila Mohamed Sunar (UTHM, Malaysia)	a. Lecture: 1 hours b. Quizz and discussion: 1 hour	2 hours
	17:00 - 19:00	New advancements and challenges in pavement engineering	Dr. Issam Qamhia (University of Illinois, USA)	a. Lecture: 1 hours b. Quizz and discussion: 1 hour	2 hours
Saturday, July 17, 2021	10:00 – 11:30	A Perception on Roles and Activities of Indonesian Engineers during Covid-19 pandemic.	Prof Djoko Legono (UGM)	a. Lecture: 1 hours b. Quizz and discussion: 1 hour	2 hours
	14:00 - 17:00	Indonesia as volcanic islands: hazards in tropical paradise	Dr. Danang Sri Hadmoko, S.Si., M.Sc. (UGM)	a. Lecture: 1 hours b. Quizz and discussion: 1 hour	2 hours
	17:30	Closing Session	Dr. Indra Perdana (Organizer)	-	-
TOTAL LECTURES					69 hours
NOTES:					
For Students from Europe, recorded courses will be ready for the morning classes					