

IVC24-111 Fundamentals and Technology of Advanced Materials

Course Schedule

Day 1 Monday, 5 August 2024

Time		Duration	Activity
07.30	08.00	30'	Entering the classroom
08.00	08.05	5'	Singing National Anthem of Indonesia
08.05	08.10	5'	Welcoming Speech : Prof. Dr. Fatimah Arofiati Noor (Chairman of IVC24-111)
08.10	08.15	5'	Opening Speech : Prof. Ir. Wahyu Srigutomo, Ph.D (Dean of FMIPA ITB)
08.15	08.30	15'	Video Performance + Online Photo Session
08.30	10.30	120'	Session1 : <i>Functional Materials for Energy Conversion from Electrochemistry</i> Dr. Shibghatullah Muhammady (Institut Teknologi Bandung, Indonesia)
10.30	10.35	5'	Announcement
Break			
13.30	14.00	30'	Entering the classroom
14.00	16.00	120'	Session 2 : <i>Graphene & CNT grown by Plasma Enhanced Chemical Vapor Deposition Method</i> Prof. Dr. Toto Winata (Institut Teknologi Bandung, Indonesia)
16.00	16.05	5'	Announcement

Day 2 Tuesday, 6 August 2024

Time		Duration	Activity
13.30	14.00	30'	Entering the classroom
14.00	16.00	120'	Session 3 : <i>Drops dance and explode on lubricated surfaces</i> Dr. Dan Daniel (KAUST, Saudi Arabia)
16.00	16.05	5'	Announcement

Day 3 Wednesday, 7 August 2024

Time		Duration	Activity
07.30	08.00	30'	Entering the classroom
08.00	10.00	120'	Session 4 : Prof. Andriwo Rusydi., Ph.D (National University of Singapore, Singapore)
10.00	10.05	5'	Announcement
Break			
13.30	14.00	30'	Entering the classroom
14.00	16.00	120'	Session 5 : <i>Nanomaterials and Beyond</i> Dr.rer.nat. Akfiny Hasdi Aimon (Institut Teknologi Bandung, Indonesia)
16.00	16.05	5'	Announcement

Day 4 Thursday, 8 August 2024

Time		Duration	Activity
07.30	08.00	30'	Entering the classroom
08.00	10.00	120'	Session 6 : <i>Novel materials for Next Generation Solar cells</i> Prof. Lydia Wong (Nanyang Technological University, Singapore)
10.00	10.05	5'	Announcement
Break			
13.30	14.00	30'	Entering the classroom
14.00	16.00	120'	Session 7 : <i>Semiconductor - based Photocatalyst : Challenges and Opportunities</i> Dr. Osi Arutanti (BRIN, Indonesia)
16.00	16.05	5'	Announcement

Day 5 Friday, 9 August 2024

Time		Duration	Activity
13.30	14.00	30'	Entering the classroom
14.00	16.00	120'	Session 8 : <i>Artificial Intelligence for Battery</i> Dr.Eng. Muhammad Syafrudin (Sejong University, South Korea)
16.00	16.05	5'	Announcement

Day 6 Monday, 12 August 2024

Time		Duration	Activity
07.30	08.00	30'	Entering the classroom
08.00	10.00	120'	Session 9 : <i>From Structural Ceramics to Multifunctional 2D Materials: Evolution from MAX Phases to MXenes</i> Pipit Fitriani, Ph.D (Institut Teknologi Bandung, Indonesia)
10.00	10.05	5'	Announcement
Break			
13.30	14.00	30'	Entering the classroom
14.00	16.00	120'	Session 10 : <i>Critical minerals-based advanced materials: Global outlook, value chain, and key strategies for industrial development</i> Dr. Aditya Farhan Arif (Mining Industry Indonesia - MIND ID, Indonesia)
16.00	16.05	5'	Announcement

Day 7 Tuesday, 13 August 2024

Time		Duration	Activity
07.30	08.00	30'	Entering the classroom
08.00	10.00	120'	Session 11 : <i>Crystal structure modulation of energy conversion oxide electrolytes</i> Dr. Stevin Pramana (Newcastle University, United Kingdom)
10.00	10.05	5'	Announcement
Break			
13.30	14.00	30'	Entering the classroom
14.00	16.00	120'	Session 12 : <i>Bond order redefinition needed to reduce inherent noise in molecular dynamics simulations</i> Dr. Ibnu Syuhada (Yayasan Cahaya Putra Ilmu, Indonesia)
16.00	16.05	5'	Announcement

Day 8 Wednesday, 14 August 2024

Time		Duration	Activity
07.30	08.00	30'	Entering the classroom
08.00	10.00	120'	Session 13 : <i>Density functional theory for nanomaterials development</i> Dr. Erik Bhakti Yutomo (Diponegoro University, Indonesia)
10.00	10.05	5'	Announcement

Day 9 Thursday, 15 August 2024

Time		Duration	Activity
07.30	08.00	30'	Entering the classroom
08.00	10.00	120'	Session 14 : <i>MFS (Al/BaxSr1-xTiO3/Si) structure and its application for ferroelectric sensors</i> Prof. Irzaman (IPB University, Indonesia)
10.00	10.05	5'	Announcement
Break			
13.30	14.00	30'	Entering the classroom
14.00	16.00	120'	Session 15 : <i>Physics mindset to develop farmers in villages (holistic approach: science, technology, business, social)</i> Dr. Ahmad Fauzi (Pusat Penelitian Kelapa Sawit - RPN, Indonesia)
16.00	16.05	5'	Announcement