MJIC 2025 PROGRAMME TABLE*

FEBRUARY 21, 2025 (FRIDAY)		
15:00-17:00	REGISTRATION	
15:00-20:00	E-POSTER & VIRTUAL INNOVATION EVALUATION	

FEBRUARY 22, 2025 (SATURDAY) BALLROOM B			
	MC: TS. SALIFAIRUS MOHAMMAD JAFAR		
08:30-09:00	OPENING CEREMONY		
	PROF. DR. TETSUO SOGA Department of Electrical & Mechanical Engineering Nagoya Institute of Technology (NITech), Japan		
	CHAIRPERSON: DR. RABIATULADAWIYAH MD AKHIR		
09:00-09:45	KEYNOTE LECTURE 1		
	PROF. DR. MEISAM TABATABAEI Institute of Tropical Aquaculture & Fisheries Universiti Malaysia Terengganu (UMT), Malaysia		

09:45-10:30	KEYNOTE LECTURE 2
	PROF. TS. DR. SURIANI ABU BAKAR Deputy Vice-Chancellor (Research and Innovations) Universiti Pendidikan Sultan Idris (UPSI), Malaysia
10:30-10.45	COFFEE BREAK & E-POSTER SESSION
10:45-11.30	KEYNOTE LECTURE 3
	PROF. DR. SAIDUR RAHMAN
	Distinguished Research Professor and Head-Research Centre for
	Nano-Materials and Energy Technology (RCNMET)
	School of Engineering and Technology
	Sunway University, Malaysia
	Advanced MXene-based nano-composite for water purification and energy conversion
	PARALLEL SESSION
	BALLROOM B STRAITS 1 STRAITS 2

	CHAIRPERSON: DR. MUSA BIN MOHAMED ZAHIDI	CHAIRPERSON: PROF. MADYA DR. NORAZILA BINTI IBRAHIM	CHAIRPERSON: NUR DIYANA BINTI ZULPAHMI
11:30-12:00	INVITED LECTURE 1	INVITED LECTURE 2	INVITED LECTURE 4
	PROF. DR. TETSUO SOGA Department of Electrical & Mechanical Engineering Nagoya Institute of Technology (NITech), Japan Direct growth of horizontal and vertical graphene and its application	ASSOC. PROF. DR. NAOKI KISHI Department of Electrical & Mechanical Engineering Nagoya Institute of Technology (NITech), Japan Improvement of thermoelectric properties of organic thin films	PROF. MADYA CHM. DR. FARIDAH BINTI ABU BAKAR Deputy Dean (Academic and Research) Centre for Graduate Studies Level 3, Research Centre Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat Johor
12:00-12.30	INVITED LECTURE 6 PROF. DR GOPINATH PACKIRISAMY Department of Bioscience & Bioengineering Indian Institute of Technology Roorkee, India	PROFESSOR DR. MOHD AMBRI MOHAMED Deputy Director (Statistics and Monitoring), Center for Research and Instrumentation Management (CRIM-UKM) Universiti Kebangsaan Malaysia	INVITED LECTURE 5 PROF. DR. AZRUL AZLAN HAMZAH Institute of Microengineering and Nanoelectronics (IMEN), Universiti Kebangsaan Malaysia

12:30-12.40	Mohd Zulkipli Bin Ab Kadir Synthesis of Bio Epoxide from Hybrid Palm Oil+Waste Cooking Oil By Insitu Process Using Different Natural And Synthetic Zeolite Catalyst	Ts. Dr. Shahrul Hisyam Marwan Innovative Design of Lattice- Structured Ankle Brace Orthosis Using Advanced Scanning and Simulation Techniques	Kadupitige Shashikala Dilrukshi Premarathna Microalgae-based combined CuO/ZnO nanoflower composites for the photocatalytic degradation of Ciprofloxacin residue in water
12:40-12:50	Syawal bin Mohd Yusof Synergistic Enhancement of CO ₂ Adsorption via Co-Doping of KCC-1 with MnO and Transition Metal Oxides	ChM. Dr. Azizul Hakim Lahuri The Effect of Adsorbent Activation Toward CO ₂ Capture for Manganese Oxide Synthesized via Precipitation Method	Hikaru Azuma Reduction of ferroelectric domain wall free energy by oxygen vacancies: A molecular dynamics simulation study
12:50-13:00	Siti Sarah Jumali Developing Biosensors for Paddy Diseases: A Review	Siti Sarahah CO ₂ Absorption Through Cellulose Dissolution with CaO	Dr Jibrin Alhaji Yabagi Thermal Decomposition Behavior and Kinetic Studies of Polystyrene Silver (PS/Ag) Nanocomposites
13:00-14:00		LUNCH BREAK	
	CHAIRPERSON: DR KELIMAH ANAK ELONG	CHAIRPERSON: TS. DR. A. SHAMSUL RAHIMI BIN A. SUBKI	CHAIRPERSON: TS. DR RUZIANA MOHAMED

14:00-14.10	Malia Athirah Binti Badruddin	Nur Syaza Iman Binti Muhamad Salleh	Anis Syahirah Binti Mohd Shafie
	Development of Superhydrophobic Cu(OH) ₂ -	Optimised Extraction and Physicochemical	Astaxanthin Nanoemulsion Alleviates
	Coated Cu Meshes for High Efficient Oil- Water Separation	Characterisations of Hylocereus undatus Natural Surfactant for Water-in-Crude Oil Emulsions	Motor Function and Neuronal Injuries Following Ischemic Stroke in Rats
14:10-14.20	Muhammad Amir Zarif Azrai	Saravanan Pichiah	Dr Nurul Asikin Mijan
11.10 11.20	Cantilever Vibration Energy Harvesting of Piezoelectric Material	Built in electric-field active 2D β-BN/ZIS coated water-fed photoelectrode for CH ₄ mitigation	Development of spherical porous nickel-manganese catalyst for production of bio-jet fuel rich product
14:20-14.30	Duong Tuan Anh Nguyen	Muhd Firdaus Abdul Halim	Nur Fadzilah Basri
14.20-14.30	Enhanced electrochemical performance of boron-doped cobalt oxide nanoparticles for supercapacitor application	Characterization of Nanocrystalline Cellulose (NCC) Fibre-Reinforced Starch Biopolymer Composites: A Pathway to Sustainable Material Development	Impedance Spectroscopy Study of Dilute Nitride p-i-n Diode with Multi Quantum Wells
	Dr Fatimah Khairiah Abd	Miss Nur Diyana Binti	Dilip Kumar A/L Mathevan
14:30-14.40	Hamid The Quantum Transport Characteristic of Graphene-γ2 Graphyne Nano-Ribbon Junction	Zulpahmi The Effects Precursor Salt in The Green Synthesis of Copper Nanoparticles Using Ananas Comosus Leaf Extracts	Molybdenum Telluride Integrated Dielectric Modulated Field Effect Transistor (FET) Based Biosensor for The Detection of Triple Negative Breast Cancer (TNBC)

14:40-14.50	Mr. Muhammad Syaabani Mohd Rafie	Shun Shimizu Synthesizing Graphene from	Mrs. Siti Juwairiyah A Rahman
	Structural and Microstructural Analysis of Ruthenium-Based Double Perovskites for Advanced Electronic Applications	Coconut Husks Using the CVD Method	Epoxidation of Sunflower Oil for Biolubricant Stock and Green Chemicals Precursor
14:50-15.00	Yusuf Jameel	Dr. Mutawalli Bello	Dr. Musa bin Mohamed Zahidi
	Enhancing Green Epoxy with Oil Palm Cellulose Nanofibrils: A Thermal, Mechanical, and Morphological Study	Performance Improvement of Concentrated Solar Thermal Collectors Using To and AIN Composite Coatings for Photothermal Conversion Application	Exploring the Potential of Tantalum-doped TiO ₂ /rGO Nanocomposite for Humidity Sensing Application
14:50-15.00	Ms. Nur Ain Munirah binti Ya Omar	Ts. Dr. Abdullah Amru Indera Luthfi	Nur Suraya Amad Mazni
14.50-15.00	Study of The Effect of ZrF4 ON LiAlH ₄ + NaBH ₄ Composite for Solid-State Hydrogen Storage	A Wound Dressing Alternative: Chitosan from Black Soldier Fly for Biodegradable Films	Investigation of Micro and Nano Hardness of Hybrid Thermochemical Treated Laser Powder Bed Fusion (LPBF) 316L Stainless Steel
15:00-15.10	Nur Basiroh Binti Mohd Rahim	Dr. Nurul Shafikah binti Mohd Mustafa	Anas Ahzaruddin bin Ahamad Tarmizi
	Tin/Indium Electrodes for Liquid Ethanol Sensing at Various Concentrations	Catalytic effects of TiH ₂ and ZrF ₄ addition on the hydrogen storage properties of LiAlH ₄ .	Biosynthesis and Optimization of Marantodes pumilum-mediated Selenium Nanoparticles Utilizing Box-Behnken Design

	Syuhadah Mohd Tahir	Ts. ChM. Dr.	Dr. Norikhwan Hamzah
15:10-15.20	Enhancement of Ionic Conductivity and Mechanical Properties of Carboxymethyl Cellulose-Based Solid Biopolymer Electrolytes with TiOâ,, Nanoparticles	Irmaizatussyehdany Buniyamin The Influence of Calcination Process on the Green Synthesis of SnO ₂ Nanoparticles using Morinda	Carbon nanotube synthesis using quasi-pyrolysis chamber in methane diffusion flame
	Lim Teng Sheng	citrifolia Leaves Extract Suriya Vathi Subramaniam	Aein Afina Mohd Redzuan
15:20-15.30			, to, tilla mona itoazaan
	Seed Method Gold Nanorod	Review on Single &	Mechanical and Thermal
	Synthesis and Spectrometric	Integrated/Hybrid Technology for Contaminants of Emerging	Properties of PMMA/CNF
	Analysis	Concern (CECs) removal	Electrospun Composite Fibre Coatings for Marine Environment
	Dr. Vasi Uddin Siddiqui	Dr. Mohd Faizal Achoi	Dr. Siti Rabizah Makhsin
15:30-15.40	Graphene-Based Polymer Composites: Enhancing Performance and Applications	Immersion Time Dependence in the Fabrication of Cesium Bismuth Iodide	Insights into the Influence of Chemical Variables on Reduced Graphene Oxide Formation in the Modified Tour Method
15:40-15.50	Prof. Madya Dr. Norazila Binti Ibrahim	Assoc. Prof. Ts. Dr. Abdul Halim Abdullah	OP45
	Magnetoresistance Effect in	Optimizing Ankle Foot Orthosis	
	La0.8 - xErxNa0.2Mn03 (x =0.0 and 0.1) Manganites for	Through Material Selection and Topology Mass Reduction Techniques	

	Next Generation Spintronic Devices		
15:50-16.00	OP46	OP 47	OP 48
16:00-16:30	со	FFEE BREAK & E-POSTER SESSI	ION
		CHAIRPERSON: ASSOC. PROF. TS. DR. ABDUL HALIM ABDULLAH	CHAIRPERSON: TS. CHM. DR. IRMAIZATUSSYEHDANY BUNIYAMIN
16:30-16:40		Nur Syazwani Binti Abdul Malek Antibacterial Activity and Structural Enhancement of 3D- Printed Waste-Derived Graphene Oxide Membranes for Water Filtration	Kevin Alvin Eswar Effect of Annealing Temperature on the Structural and Morphological Properties of Nb-Doped ZnO Thin Films
16:40-16:50		OP 51	Ts. Nadya binti Hajar Physicochemical, Optical, and Structural Properties of Cassava Starch/Xanthan Gum/Zinc Oxide Nanoparticles Coating Solution for Fruit Preservation
16:50-17:00		Maryam Mohammad	Ms. Durratun Nasihah Binti Mohd Shuhairi

	Hybrid Microwave-Assisted	Tailoring Mechanical Properties
	Sonochemical Synthesis of One-	of 3D-Printed Polymer
	Dimensional Zinc Oxide	Composites with Graphene
	Nanowires and the Enhancement	Oxide Via Digital Light
	of its Physical and Morphological	Processing
	Properties	
	Hafsa binti Omar	Nordania Farisha Binti
17:10-17:20		Ahmad Puzi
	The Heat of Transformation:	
	Annealing Temperature Effects	The Effect of Anodizing Time on
	on Reduced Graphene Oxide	the Formation of Aluminum
	Derived Coconut Shell Charcoal	Oxide nanowires by Two-Step
		Anodization Method
	Zahidah Othman	Nurfarhana binti Rosman
17:20-17:30		
	Low microwave power growth of	Sustainable Synthesis of
	Copper Oxide (CuO)	Nitrogen-Doped Graphene Oxide
	nanostructures via Microwave-	Films from Fermented Koji-
	assisted Sonochemical method	Based Carbon
	Nur Fairuz binti Mohd	Mohamad Dzulfiqar Bin Bakri
17:30-17:40	Rostan	
		The Development of Metal
	The Structural and Optical	Doped Zinc Oxide
	Properties of Cu-doped ZnO	Nanostructures for Hydrogen
	Nanowires Grown via Facile	Sensors: A Review
	Microwave-assisted Ultrasonic	
	Irradiation Technique	
	OP 62	OP 63
17:40-17:50		

17:50-18:00		OP 64	OP 65	
	GALA DINNER			
19:30-20:00		REGISTRATION		
20:00-22:00		DINNER		
		Officiated By		
	YBhg. Prof. Datuk Vice Ch	Ts. Dr Shahrin bin Sahib @ Sah nancellor Universiti Teknologi MA	nibuddin , FASc .RA	

	FEBRUARY 23, 2025 (SUNDAY)
09:00-1400	NETWORKING SESSION (MELAKA TOUR)

^{*}Subject to any changes.
*The schedule is subject to periodic updates based on requirements.

E-POSTER PF	RESENTATION
Ir. Ts. Dr. Zaharah Johari Voltage Applied Effect on Bilayer Carbon-Doped Boron Nitride Nanoribbon for Hydrogen Gas Sensing	Nur Amirah Syafiqah Binti Amirul First-Principles Calculation on Structural, Electrical, and Optical Properties of APbl ₃ (A=CH ₃ NH ₃ , Cs) For Perovskites Solar Cell Applications
Nor Amirah binti Ladjahirin Deposition of Li-doped Nickel Oxide Thin Films by Sol-Gel Spin Coating: Effect of Annealing Temperature on Structural, Optical, and Electrical Properties	Nurul Syafiqah Binti Mohamed Mustakim Sustainable Energy Strategies: Generating Electricity from Renewable Sources and Waste
Ts. Dr. Norfarariyanti binti Parimon Synthesis and Characterization of Deposited Manganese Doped Nickel Oxide Thin Films at Different Annealing Temperatures	Mr. Muhammad Afif Syazani Bin Rozani Thermal Stability and Characterisation of Virgin Coconut Oil-In-Water Emulsions: The Role of Mixed Surfactants
Nurain Najwa Ramli POFA-PET Incorporated Concrete for Gamma Ray Shielding	Muhammad Amir Bin Md Fu'ad / Muhammad Syazwi Salihin Bin Sobri Augmented Reality (Ar) and Qr Code Design Implementation of File Folder Innovation at Majlis Bandaraya Johor Bahru
Nafisha Balqis binti Khairuddin First-principles Study on Structural, Electronic and Optical Properties of Cu ₂ ZnSnS ₄ as Absorber Layer for Thin Film Solar Cell	Nurzaihani Batrisyia Binti Said The First- Principles Study on Structural and Electronic Properties of NiCo2O4 as an Electrode in Supercapacitors
Najwa Ezira Binti Ahmed Azhar Nanostructured Metal-Oxide Semiconductors: Towards Ultra- Sensitive Humidity Sensors	Mr Muhammad Syakir Azri bin Anuar Short Review on SrTio₃ – Synthesis Methods and Ways to Improve Its Characteristics

Nurfatini Atiqrah Binti Khairul Azhar Low-Temperature Synthesis of ZnO Nanostructures: A Precursor Concentration Study for Piezoelectric Nanogenerator
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