

## SENARAI PROJEK FRGS 2023

BIL	KETUA PROJEK	FAKULTI	TAJUK PROJEK	E-MAIL
1	Dr. Nur Soleha Binti Abd Rahim	Fakulti Kejuruteraan & Teknologi Awam	Mechanism of Change Risk Self-Assessment Adaptation Readiness for Integrating Building Information Modeling and Industrialized Building System	nursoleha@unimap.edu.my
2	Prof. Madya Dr. Rafiza Binti Abd Razak	Fakulti Kejuruteraan & Teknologi Awam	Formulation of Intumescent Geopolymer Plaster (GeoPlast) Towards Comprehension of Fire Protection Mechanism	rafizarazak@unimap.edu.my
3	Dr. Nur Anira Asyikin Binti Hashim	Fakulti Kejuruteraan & Teknologi Awam	Elucidation of The Fracture Mechanism in Quasi-Brittle Material Using a Non-Ordinary State-Based Peridynamics Framework With a Stabilised Correspondence Model	aniraasyikin@unimap.edu.my
4	Dr. Nur Liza Binti Rahim	Fakulti Kejuruteraan & Teknologi Awam	Derivation of Stiffness Equation of Bolted Timber Connections for Malaysian Timber	nurliza@unimap.edu.my
5	Dr. Nur Amierah Binti Harun	Fakulti Kejuruteraan & Teknologi Awam	Take-Back System As Mechanism To Improve Construction Waste Management Performance In Malaysia	nuramierah@unimap.edu.my
6	Dr. Norazrin Binti Ramli	Fakulti Kejuruteraan & Teknologi Awam	Analysis of Granger Causality and Pearson Correlation for Discovering the Significant Parameters in Improving Air Pollution Predictive Model in Malaysia	norazrin@unimap.edu.my
7	Ts. Dr. Farah Naemah Binti Mohd Saad	Fakulti Kejuruteraan & Teknologi Awam	Adsorption Behavioural of Banana Stem as an Adsorbent in Reducing Colour Solution	farahnaemah@unimap.edu.my
8	Dr. Siti Rafidah Binti Abdul Rahim	Fakulti Kejuruteraan & Teknologi Elektrik	Integrated Nature Inspired-ANN for Multi-Objective Optimization Problem Considering Fault Occurrence with Distributed Generation	rafidah@unimap.edu.my
9	Puan Zetty Nurazlinda	Fakulti Kejuruteraan & Teknologi Elektrik	Characterisation of Space Charge Dynamics in Dielectric Liquid using Kerr Effect Method for Better High Voltage Liquid Insulation	zetty@unimap.edu.my
10	Prof. Madya Dr. Mohamad Nur Khairul Hafizi Bin Rohani	Fakulti Kejuruteraan & Teknologi Elektrik	Enhancing Electrical Tree Structures Characterization Based on Generative Adversarial Networks and Multi-Scale Edge Tracking Algorithm for High Voltage Solid Insulation	khairulhafizi@unimap.edu.my
11	Dr. Haryati Binti Jaafar	Fakulti Kejuruteraan & Teknologi Elektrik	Optimizing IMLE and Nearest Neighbor Approaches in Generative Adversarial Networks for Synthetic Data Generation of Dye-Sensitized Solar cells	haryati@unimap.edu.my
12	Prof. Madya Dr. Mohammad Faridun Naim Bin Tajuddin	Fakulti Kejuruteraan & Teknologi Elektrik	Formulating an Enhanced PSO-Based MPPT Algorithm with DC Optimizer Framework for Optimized Mitigation of Mismatch Effect in BIPV System	faridun@unimap.edu.my
13	Ir. Ts. Dr. Tiang Tow Leong	Fakulti Kejuruteraan & Teknologi Elektrik	Novel Optimisation Design of 100kW Torus Axial Flux Surface-Inset PMSM using Firefly Algorithm and FEM	towleong@unimap.edu.my
14	Dr. Steven A/L Tanisellass	Fakulti Kejuruteraan & Teknologi Elektronik	Elucidating Dual-Cardiac Protein Recognition Mechanism Reinforced by Graphene through Impedimetric for Ischemic Heart Diseases	steven@unimap.edu.my
15	Prof. Madya Dr. Ruzelita Binti Ngadiran	Fakulti Kejuruteraan & Teknologi Elektronik	Wavelet-based Features and Generative Adversarial Networks (GANs) for Image Forgery Detection and Localization	ruzelita@unimap.edu.my

16	Ir. Dr. Shazlina Binti Johari	Fakulti Kejuruteraan & Teknologi Elektronik	Conductivity and Surface Area Properties of Oil Palm Trunk-Based Reduced Graphene Oxide Functionalized with ZnO Nanoparticles	shazlinajohari@unimap.edu.my
17	Prof. Madya Dr. Thennarasan A/L Sabapathy	Fakulti Kejuruteraan & Teknologi Elektronik	Reflection Phase Mechanism of A Non-Destructive Reconfigurable Artificial Magnetic Conductor Array with Dielectric Properties of Mango	thennarasan@unimap.edu.my
18	Dr. Siti Zarina Binti Md Naziri	Fakulti Kejuruteraan & Teknologi Elektronik	Optimization of Logarithmic Number System (LNS) Architecture using Improved Co-transformation Procedure for Multiply-Accumulate (MAC) Operation in image Processing	sitizarina@unimap.edu.my
19	Ts.Dr. Lim Chee Chin	Fakulti Kejuruteraan & Teknologi Elektronik	Modification of Nuclei Semantic for Convolution Neural Network Architecture in Diagnosis of Diffuse Large B-Cell Lymphoma	cclim@unimap.edu.my
20	Ts. Dr. Nor Farhani Binti Zakaria	Fakulti Kejuruteraan & Teknologi Elektronik	Enhancement of Lateral Charge Transfer Mechanisms by Introduction of Various Terrace Hetero p-n Junction Geometries in Photovoltaic Cells for Improved Optical and Electrical Performance	norfarhani@unimap.edu.my
21	Prof. Madya Dr. Rozmie Razif Othman	Fakulti Kejuruteraan & Teknologi Elektronik	Enhanced Wingsuit Flying Search (WFS) Algorithm for Optimizing Combinatorial Test Suite Generation	rozmie@unimap.edu.my
22	Dr. Norfatimah Binti Bahari	Fakulti Kejuruteraan & Teknologi Elektronik	Synthesizing Negative Refractive Index Metamaterial using Artificial Magnetic Conductor in a High-Performance Reconfigurable Graphene-Based Antenna For 6G Applications	norfatimah@unimap.edu.my
23	Prof. Madya Ts. Dr. Ahmad Anas Nagoor Gunny	Fakulti Kejuruteraan & Teknologi Kimia	Mitigating Fungal Diseases and Water Permeability Issues in Postharvest Mango via Modified Green Hydrophobic Nanocoating	ahmadan@unimap.edu.my
24	Prof. Madya Ts. Dr. Ong Hui Lin	Fakulti Kejuruteraan & Teknologi Kimia	Elucidating the Energy Storage Mechanism of Rice Straw-Derived Flexible Cellulose-MXene Hybrid Nanocomposite for Supercapattery Electrode	hlong@unimap.edu.my
25	Dr. Mohd Hanif Bin Mohd Pital	Fakulti Kejuruteraan & Teknologi Kimia	Tunnelling Surface Charge of Industrial Wood Waste-derived Cellulose Nanofibrils Using Grafting Approach for Supercapacitor Separators	hanifpital@unimap.edu.my
26	Prof. Madya Dr. Khairul Farihan Binti Kasim	Fakulti Kejuruteraan & Teknologi Kimia	Extraction and Degradation Kinetics of Anthocyanin from Clitoria Ternatea Flower and Its Stability as Natural Dye for Textile Industry	khairulfarihan@unimap.edu.my
27	Dr. Amin Rukaini Bin Mustafa	Fakulti Kejuruteraan & Teknologi Kimia	Elucidating Phytopathogenic Fungi Control by Biomolecular Analyses of Antifungal-Producing Bacillus sp. from Harumanis Mango Rhizosphere	aminrukaini@unimap.edu.my
28	Prof. Madya Dr. Akmal Hadi Bin Ma' Radzi	Fakulti Kejuruteraan & Teknologi Kimia	Elucidating Underlying Mechanism of Cigarette Filters based Nanocrystalline Cellulose (NCC) with Methacrylate Graft Copolymers Incorporated with Polysulfones	akmalhadi@unimap.edu.my
29	Ts. Dr. Mohd Sharizan Md Sarip	Fakulti Kejuruteraan & Teknologi Kimia	Elucidation of Polyurethane Degradation Kinetic in Deep Eutectic Solvents (DES) at Low Temperature with Sonochemistry Aided System	sharizan@unimap.edu.my

30	Dr. Noor Amirah Binti Abdul Halim	Fakulti Kejuruteraan & Teknologi Kimia	Parametric Studies and Mathematical Modeling of Oleoresin Isolation from <i>Syzygium aromaticum</i> via Subcritical Water Extraction	amirahhalim@unimap.edu.my
31	Dr. Mismisuraya Binti Meor Ahmad	Fakulti Kejuruteraan & Teknologi Kimia	Elucidating Microstructure of Superhydrophobic Coating on Magnesium Alloy	mismisuraya@unimap.edu.my
32	Dr. Nor Helya Iman Bi Kamaludin	Fakulti Kejuruteraan & Teknologi Kimia	Interfacial Interaction and Water Absorption Behavior of Esterified-Crystalline Nanocellulose in Polylactic Acid Nanocomposites	helya@unimap.edu.my
33	Ts. Dr. Norshah Aizat Bin Shuaib	Fakulti Kejuruteraan & Teknologi Mekanikal	Elucidation of Interfacial Behaviour and Dielectric Mechanism of Moulded Multi-walled Carbon Nanotube Reinforced Recycled Carbon Fibre Epoxy Composites Through Mixture Design Methodology	norshahaizat@unimap.edu.my
34	Ts. Azizul Bin Mohamad	Fakulti Kejuruteraan & Teknologi Mekanikal	Correlating Phase Change Effectiveness of Encapsulated Phase Change Material via $\epsilon$ -NTU Method for Optimum Thermal Performance	azizul@unimap.edu.my
35	Ts. Dr. Zailani Bin Zainal Abidin	Fakulti Kejuruteraan & Teknologi Mekanikal	Elucidating the Effects of Graphene Nanoparticles and Chilled Air Cooling Assisted Machining on Phase Transformation Behavior of Nickel Titanium Shape Memory Alloys	zailani@unimap.edu.my
36	Ir. Mohd Nasir Bin Mat Saad	Fakulti Kejuruteraan & Teknologi Mekanikal	Correlational Effects between Thermal Conductivity and Compressive Strength of Geopolymer-based Composites Reinforced with Recycled Copper as Mould Inserts for Rapid Tooling in Injection Moulding Process	nasirsaad@unimap.edu.my
37	Dr. Md Tasyrif Bin Abdul Rahman	Fakulti Kejuruteraan & Teknologi Mekanikal	Elucidation the Interaction Mechanism of <i>Furcraea Foetida</i> Fibre and Graphene Nanofiller on Wear and Frictional Behaviour of Hybrid <i>Furcraea Foetida</i> /Graphene Reinforced Epoxy Composites during Dry and Wet Sliding	tasyrif@unimap.edu.my
38	Ts. Dr. Tan Chan Sin	Fakulti Kejuruteraan & Teknologi Mekanikal	Evaluating Industry 4.0 Technological Readiness Using Analytical Hierarchy Process (AHP) and Weighted Product Model (WPM) for Malaysian Small-Medium Enterprise Production System	cstan@unimap.edu.my
39	Prof. Madya Dr. Ahmad Humaizi Bin Hilmi	Fakulti Kejuruteraan & Teknologi Mekanikal	Harnessing the Intrinsic Properties and Optimal Weave Patterns of Banana Fiber for Enhanced Blast Resistance: A Sustainable and Cost-Effective Approach	humaizi@unimap.edu.my
40	Dr. Shahidah Arina Binti Shamsuddin	Fakulti Kejuruteraan & Teknologi Mekanikal	Elucidating Signal Transduction Mechanistic of Activated Rice Husk Carbon-Coated Screen-Printed Electrode in Detecting Respiratory Intact Viruses	shahidaharina@unimap.edu.my
41	Prof. Madya Ts. Dr. Norshahrizan Binti Nordin	Fakulti Perniagaan & Komunikasi	A Framework for Optimizing Personnel Selection through a Hybrid Decision Making Model: A Mahalanobis Gram-Smith Taguchi System Approach	norshahrizan@unimap.edu.my
42	Ts. Dr. Wan Zuki Azman Bin Wan Muhamad	Institut Matematik Kejuruteraan	Hybrid Algorithm for Multiple Imputation of Missing Data with Class Imbalanced Medical Datasets	wanzuki@unimap.edu.my