

UMPSA'S CLUSTER OF KNOWLEDGE



اونيورسيتي مليسيا قهغ السلطان عبد الله
UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH



UMPSA'S CLUSTER OF KNOWLEDGE

THE EXPERT DIRECTORY



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FOREWORD

After 21 years of its inception Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) has successfully built its pool of knowledge in the various technical areas including the IR 4.0, IoT Big Data and Data Analytics. It's indeed timely to systematically market these clusters of knowledge from The Pekan and Paya Besar Valley of Knowledge for collaboration with the stakeholders and industries.

Internally, access to this comprehensive list of experts either from this publication or online would certainly facilitate us in achieving selectively the 17 Sustainable Development Goals (SDGs) and the Environment Social and Governance (ESG) targets.

These are our platforms, enablers and accelerators of UMPSA Green and Smart Campus. The pool of talents highlighted would also facilitate to enhance the spreading and embedding of Science and Technology Value System and Culture for the future generation.

For this purpose, a regular STEM Festival will be held to show case the products of these innovative and technologically based knowledge. These programmes of Team Reaching Out will be pursued relentlessly. I sincerely hope this group of Talent Marketing will be the hallmark of UMPSA Success Narrative . Insya Allah



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VICE CHANCELLOR NOTE

Being one of the Malaysian Technical Universities (MTUN), UMPA holds many experts in various fields related to engineering and technology, including high-level Technical and Vocational Education and Training (TVET).

With our motto, "**Technology for Community**", our team of experts are ready to assist and committed to sharing their expertise in bringing a better life to all. This booklet will serve as a strategic source of expertise that can be turned into potential future cooperation for shared knowledge and technology between the university and the community.

Thank you to the team that made this book possible for all to share.



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Vice-Chancellor
Universiti Malaysia Pahang Al-Sultan Abdullah

ABOUT UMPSA

Established as a technical university in 2002, Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) offers various engineering- and technology-based technical programmes, including high-level Technical and Vocational Education and Training (TVET) programmes.

After 21 years of glory, Universiti Malaysia Pahang (UMP) is now branded as Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA).

His Majesty Yang Maha Mulia Seri Paduka Baginda Yang di-Pertuan Agong XVI Al-Sultan Abdullah Ri'ayatuddin Al-Mustafa Billah Shah Ibni Almarhum Sultan Haji Ahmad Shah Al-Musta'in Billah, who is also the UMP Chancellor contributed a lot in shaping the country leadership, empowering education, disseminating knowledge and religion as well as the concern of His Majesty The King towards the people, especially in Pahang Darul Makmur.

The university started as the University College of Engineering and Technology Malaysia (KUKTEM), a technical university established on 16 February 2002. After five years of operation, the Government of Malaysia announced the change of the name KUKTEM to Universiti Malaysia Pahang (UMP), effective 1 February 2007.

The university's branding to UMPSA, when it was at the peak of success, was based on the Universiti Malaysia Pahang Order (Incorporation) (Amendment) 2023 (P.U. (A) 116/2023) effective 14 April 2023. This branding coincides with the university's vision towards a leading technological university, and it will realise the aspiration of excellence achieved through academic empowerment and impactful research outputs and produce outstanding graduates to become quality human capital in driving excellent national development.

This branding will also build the university's visibility, reputation and capabilities, which aligns with the university's development and achievement at the age of 21 this year.

Ranked as one of the best in research and innovation within the classifications of Malaysia Technical University Network (MTUN) and Non-Research University (Non-RU), UMPSA is steadfastly committed to innovating and developing unique academic programmes through strategic international collaborations. A milestone of such innovation is UMP's world-class dual-degree engineering programme in collaboration with Germany's Karlsruhe University of Applied Sciences (HKA) – now seen as the benchmark for other public institutions of higher learning in Malaysia.

In research, UMPSA collaborates with local industries to focus on industry-related applications. Such research collaboration enriches the teaching and learning modules at the university and simultaneously promotes the commercialisation of research output and products.

UMPSA RANGKINGS

NATIONAL



INTERNATIONAL



Ranked #781-790 in World
Ranked #10 in Malaysia (Public Universities)
Ranked #1 in MTUN



Ranked #132 in Asia
Ranked #25 in South Eastern Asia
Ranked #12 in Malaysia
Ranked #1 in MTUN



Ranked #201-250 in World
Ranked #3 in Malaysia
Ranked #1 in MTUN



Ranked #301-400 in World
Ranked #7 in Malaysia
Ranked #1 in MTUN

SDG1: No Poverty – #101-200
SDG4: Quality Education – #301-400
SDG6: Clean Water and Sanitation – #101-200
SDG7: Affordable and Clean Energy – #=53
SDG9: Industry, Innovation and Infrastructure – #401-600
SDG12: Responsible Consumption and Production – #201-300
SDG17: Partnership for the Goals – #101-200



Ranked #401-450 in World
Ranked #6 in Malaysia
Ranked #1 in MTUN

QS WUR BY SUBJECTS



Ranked #201-250 in Asia
Ranked #9 in Malaysia
Ranked #1 in MTUN



Ranked #601-800 in World
Ranked #8 in Malaysia
Ranked #1 in MTUN



Ranked #103 in World
Ranked #1 in MTUN
Ranked #5 in Malaysia

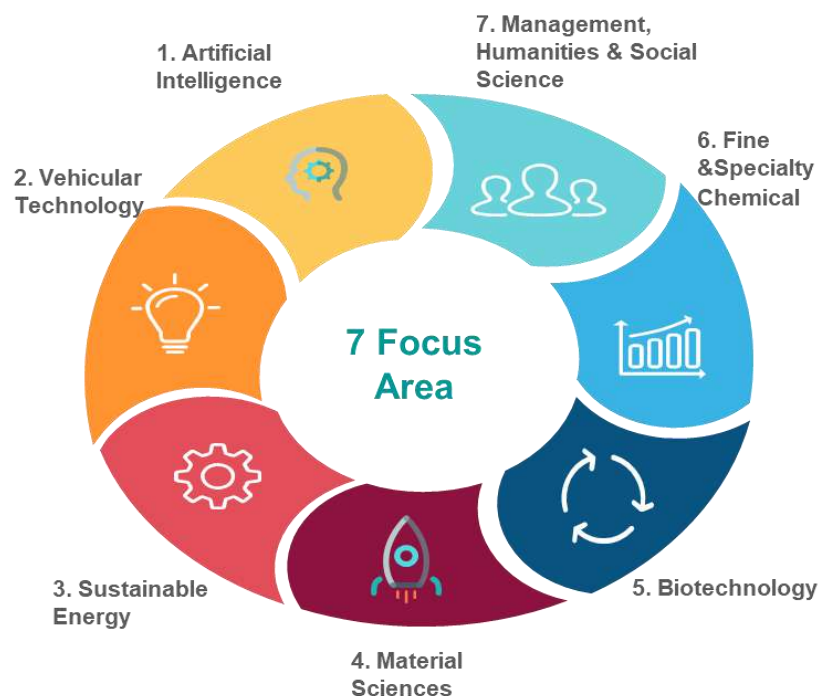


World: 992
Asia: 269
Energy & Fuel: 161
Chemical Engineering: 201
Engineering: 256
Chemistry: 637
Materials Science: 634

INTRODUCTION

In line with the university's vision to become a world-class technical university, UMPSA has set up the niche area of the university, which is Advanced Process Engineering and Automotive. The setting of the **University Niche Area** is aimed at empowering UMPSA in international rankings and shaping and determining the university's research direction and strategy, so that it is more effective and has a high impact.

The **UMPSA Research Niche Area** has been set by the university based on the strength and capabilities of UMPSA. The UMPSA research niche area is used to map the research domains at UMPSA and acts as a pillar for UMPSA academics. It is also essential in connecting academic research that fosters innovation and collaboration and promotes commercialisation. There are two research niche areas of UMPSA, Chemical Engineering and Mechanical, and Automotive and Manufacturing Engineering, which are further supported by seven **UMPSA Focus Areas**. These focus areas serve as the foundation of the university's R&D programmes to provide high-quality research outputs in the designated niche areas. However, UMPSA Focus Areas have been expanded into four **Additional Field Areas** to support key economic sectors in the state of Pahang (Pahang State Socioeconomic Report, 2021, Department of Statistics Malaysia), which covers among the fields of agriculture and food security, mining, petrochemicals and construction.



FOUR ADDITIONAL FOCUS AREAS

01

Agriculture and Food Security

02

Rare Earth

03

Petrochemical

04

Construction

UMPSA WORLD'S TOP 2% SCIENTIST



1. Dr. Sudhakar Kumarasamy – Sustainable Energy
2. Professor Dr. Jose Rojan – Smart City, Material Sciences,
3. Professor Dr. Wan Azmi bin Wan Hamzah – Vehicular Technology
4. Professor Dr. Rizalman bin Mamat – Vehicular Technology, Sustainable Energy
5. Professor Dato' Ts. Dr. Zularisam bin Ab Wahid – Sustainable Energy, Agriculture & Food Security
6. Professor Ir. Ts. Dr. Kumaran a/I Kadirgama – Material Sciences, Vehicular Technology
7. Ts. Dr. Norazlianie binti Sazali - Sustainable Energy
8. Professor Ts. Dr. Md. Mustafizur Rahman – Sustainable Energy, Vehicular Technology
9. Ts. Dr. Ahmad Shahrizan bin Abdul Ghani – Smart City
10. Associate Professor Dr. Ramdhansyah Putra Jaya – Construction
11. Professor Ts. Dr. Kamal Zuhairi bin Zamli - Smart City
12. Associate Professor Ir. Ts. Dr. Wan Sharuzi bin Wan Harun – Agriculture & Food Security
13. Associate Professor Dr. Mohd Herwan bin Sulaiman – Sustainable Energy
14. Professor ChM Dr. Mohd Hasbi bin Ab Rahim – Material Sciences, Fine & Specialty Chemical
15. Associate Professor Ir. Ts Dr. Mahendran a/I Samykano – Sustainable Energy, Material Sciences
16. Professor Ts. Dr. Jolius bin Gimbin – Sustainable Energy, Agriculture & Food Security
17. Professor Chm Dr. Chong Kwok Feng – Rare Earth Materials, Material Sciences
18. Ts. Dr. Ros Azlinawati binti Ramli - Agriculture & Food Security, Fine & Specialty Chemical
19. Dr. Izan Izwan bin Misnon – Material Sciences
20. Associate Professor Ts. Dr. Mohd Ashraf bin Ahmad - Smart City



SMART CITY

SMART CITY

The UMPSA expertise in Smart City focus area has been categorised into 7 components based on Smart City Framework Malaysia (MSCF) consist of Smart People, Smart Living, Smart Mobility, Smart Government, Smart Digital Infrastructure, Smart and Circular Economy. Through the convergence of technologies incorporating machine learning and neural network capabilities, geospatial intelligence, data analytics and visualisation, sensors, and smart connected objects, artificial intelligence which one of UMPSA's focus area offers a comprehensive view of how cities are evolving as smart city ecosystems.

Smart People

To improves the urban people way of life, high human capital, (knowledge workers), high human development index, people highly flexible and resilient to the changing circumstances.

Smart Living

To create a sustainable, vibrant and ideal place of living, especially for women, children, and senior citizens in the city.

Smart Mobility

To increase the efficiency of public transportation, accessibility, mobility of people and traffic management through intelligent traffic management in the city.

Smart Government

To improves the government services to people.

Smart and Circular Economy

To create a competitiveness, innovative and diverse economic opportunities to prepared for the challenges and opportunities of economic globalization

Smart Digital Infrastructure

To improve and provide the efficiency of infrastructure through intelligent in the city.

Smart Environment

To create a sustainable environment through reduce greenhouse emission, low-carbon lifestyle with focus on energy efficiency, renewable energy and green technology.





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Development of New Smart Window Materials

UMPSA World's Top 2% Scientist

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Prototype Low-Cost IoT Enabled Light Switches
with Smart Device Connectivity

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Formulation of Medicinal Cupping Point
Algorithm for Diabetic Patient Via Adjacency
Matrix Approach

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Pandemic Preparedness Simulation Tool

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Reopening for Malaysia Using SIRD
Compartmental Framework

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Development of a Predictive Algorithm for Heart
Disease Using an Ensemble Of Logit Model and
Nearest Neighbour Tree Method Based on
Smartwatch Data

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Parameter Optimisation of Cannulated Pedicle
Screw and Osteoporosis Bones Fixation through
Finite Element Method

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Nonparametric Prediction Inference for
Diagnostic Accuracy

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A Smart Bin System for FIM Learning Factory

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Development of Cupping Machine with Automatic
Suction Control

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Energy Consumption in Wireless Sensor Network

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Formulation of Clustering-based Procedure for
Identifying Multiple Outliers in Univariate Circular
Biomedical Data

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Formulating Green Economy Framework for Sustainability Development Goals (SDGs) Using Machine Learning Analytics

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A New Forecasting Algorithms for Performance Measurement in Manufacturing Industries

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Blockchain Network Model to Improve Supply Chain Visibility Based on Smart Contracts

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Development of Interactive Software for Gold Price Forecasting

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Customer Engagement towards Mobile Banking: A Study on Government Service Sector Employees in Malaysia

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Robustifying Hotelling T^2 Statistic for Monitoring the Stability of Currency Exchange Rate During Global Financial Crisis.

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Formulation of Flexible Hybrid-Fuzzy Technique for Reliability and Sustainability Assessment Model to Support Decision Making in Early Phase of Product Design

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Optimisation Using Artificial Bee Colony Algorithms

UMPSA World's Top 2% Scientist

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Emergency Scenario Using Agent Based Simulation and
Social Force Modelling

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Using Sum of Correlated Gamma Model and Poisson-
Gamma Model

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Optimal Rain Gauge Network in Pahang Using Particle
Swarm Optimization

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Heavy Precipitation Forecasting Using Hybrid Artificial Neural Network (ANN) and Auto Regressive Integrated Moving Average (ARIMA)

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Forest Fire Hazard Assessment System by Integrating Processed Satellite Images and Geographical Information System (GIS)

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IoT Based Water Quality Prediction System

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Energy Saving Air-conditioning Control System

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Smart Farming System

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for Reducing the Electricity Consumption

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Development of a Machine Vision System for Oil Palm Fruits Grading

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Bio-Coagulant and Smart System for Sustainable Water Treatment

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Crowd Movement Detection for Automated Surveillance Camera System.

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An Approach of Student Academic Identification and Classification Using Artificial Intelligence

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Developing a Standard Plagiarism Guidelines on Internet Materials

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A Model For Investigating The Effectiveness of Post-Pandemic Blended Learning In Institutions Of Higher Learning

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IoT Technology – Fisherman's Mobile Technology

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An Investigation of Online Reading Strategies Employed by University Students in a Learning Management System (LMS)

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A Study and Development of Internet Literacy Self-Learning Toolkit: Enhancement Using Multi Dialect in Voice-assisted Instruction

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Descriptor for Face Pattern Recognition Based on Novel Methods

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Smart Night Vision System for Detecting Intruders in
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Improving the Integrity of Halal Supply Chain
Management through Blockchain Technology

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The Network Intrusion Detection System in Cloud
Computing Using Whale Optimisation Algorithm and
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Risk Based Inspection GUI

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Collision Avoidance Mechanism Using Integrated Communication Architecture for Mitigating Traffic Accident

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Prediction of Road Traffic Accidents Using Machine Learning

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The Development of Data Quality Management Framework for Malaysian Government Open Data Platform

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Question Answering System : Chatbot

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Vehicle-to-vehicle (V2V) and Vehicle-to-Infrastructure (V2I) Communication for Smart City's Intelligent Transportation System (ITS)

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Development of Smart Campus Autonomous Vehicle (SCAV)

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Compliant Control on Pneumatics Gripper Servings for
Fragile Object Pick-And-Place

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Intelligent Traffic Light Control for Emergency Vehicle
Using Vision Sensor

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Inter-vehicle Communication (IVC) for Intelligent
Transportation System (ITS)

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The Development and Implementation of Artificial
Intelligence (AI) Based Autonomous Mobile Object
Finder

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Intelligent Vehicle Monitoring System for Smart Campus

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A Study on the Decision-Making Support in Scheduling and Vehicle Routing Problems via Trade-off Ranking Method

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The Development of Digital Controller in Rotary Motion System

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Smart Traffic System for Universiti Malaysia Pahang Pekan Campus

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Vision Based Intelligent Traffic Monitoring System

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New Formulation of Power Dispatch Solution Based on
Moth-flame Optimiser for Power System Planning and
Operation

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Development of Intelligent Monitoring and Control of
Urban Traffic Light System for Jabatan Kerja Raya
(Cawangan Elektrik) Selangor

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An Improved Smoothed Functional Algorithm by Using Norm – Limited Update Vector for Stable Convergence in Model – Free Control Scheme

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A New Priority Rule Cloud Scheduling Technique That Utilizes Gaps to Increase the Efficiency of Jobs Distribution

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Indigenous Test Bed for Industry 4.0 Using Visible Light Communication with Industrial Internet of Things

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Investigation a Genetic Algorithm Based Strategy for Sequence Covering Array Construction

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Intelligent Vision System for Identification of Massive and Cluttered Parts

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Development of Real-time Computer-based Multiple Motor Drive System

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Adaptive Controller of Smart Micro Grid in Intentional Islanding Mode

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Formulation of Microgrid Energy Management of Energy Internet Using Fuzzy Based Model Predictive Control

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Security of Cryptosystem Using Automorphism of Cyclic Groups of P-power Order

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Formulation of New Feature Selection Methods Based on Linear and Nonlinear Unsupervised Discriminant Analysis for Intrusion Detection System

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Implementation Artificial Network in Field Programmable Gate Array (FPGA)

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Development of Monitoring and Control System Using Wireless IoT Communications for Energy Saving in the Workplace

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Monitoring of Rotating Machinery Fault Diagnosis
Using Vibration and Artificial Intelligence Approaches

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Non-Destructive Test of Pineapple Maturity Using
Vision System

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Automatic Fishcake Slicer Machine with Vision –
Based System for Defect Monitoring

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Development Of A Student Attendance Using Vicinity
RFID System

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Artificial Intelligence-driven Properties Optimisation
of Phase Change Material

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RSA Digital Signature Authentication and Verification
Using Cryptographic Keys Generator Based on the
Compatible Actions of Cyclic P-groups

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Handwash Screening Vision System

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Modelling of Inter-cell Radio Interference and Thermal
Noise Floor in 5G Mobile Networks Using Artificial
Intelligence

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Anomaly-Based Malware Prediction Model with Optimised Static Features

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Bluetooth User Driven M-Advertising Using Pull-Based Approach

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Optimal Sizing of Distributed Generation (Dg) in Distribution Networks

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Development of Array Antenna for UHF RFID Reader

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Integrated Network Security System for Industry Security

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VEHICULAR TECHNOLOGY



VEHICULAR TECHNOLOGY

Vehicular Technology

Vehicular Technology Cluster is focusing on vehicle technology research development and industry in Malaysia. The key objective of the group is to support National Automotive Policy (NAP) 2020-2030 framework, especially in developing the next generation vehicle (NxGV) technology. The experts are divided into five components; Engines and Combustion, Electric Vehicles and Batteries, Autonomous Vehicles, Cooling and Lubrication, and Vehicle Manufacturing



VEHICULAR TECHNOLOGY COMPONENTS





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Performance Combustion Characteristics And
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Blends On Spark Ignition Engine

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Development Of Smart Campus Autonomous
Vehicle (SCAV), Diesel Engines Combustion And
Emissions

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Investigation And Analyzation On Combustion Behavior,
Performance And Exhaust Emission Characteristics Of
Homogeneous Charge Compression Ignition (HCCI)

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Development And Characterisation Of Flexible Valve
Timing System Towards Optimised Performance Of
Small Internal Combustion Engines

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Development Of Surface Vector Model For Enhancement Of Engine Performance And Lower Exhaust Emissions Of A 4 - Cylinder Four Stroke Gasoline Engine

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Investigation On Combination Of Port Fuel Injection (PFI) And Direct-Injection (DI) System For Compression Ignition Engine

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Investigation Of Compression Ignition Through New Port Injection System In Diesel Engine Integrated With HCCI Mode

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Optimal Energy Management Strategies For Energy Storage Systems And Future Challenges Of Fuel cell Electric Vehicle

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Prototype Development Of Ground Mobile Assistive System With Adaptive Suspension Mechanism For Uneven Terrain And Confined Area

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Investigation Of Ros Based Vehicle State Estimation On State Covariance With EKF In Uncluttered Environment

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Development Of A Permanent Magnet Motion Driver For Electricity Power Generation And Vehicles

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Development Of Smart Campus Autonomous Vehicle (SCAV), Diesel Engines Combustion And Emissions

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Drebar : An Automation Embedded System Module

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Designing An Add-Ons Kit Toward Autonomous Electric Powered Wheelchair With IoT Monitoring System

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Investigation On The Effect Of A Continuous-Transition Four-Wheel Independent Steering System To The Maneuverability And Safety For Electric Vehicle

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Investigation On Differential Braking Torque Controller To
Improve The Stability Of Small In-Wheel Electric Vehicle

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Mxene Nanomaterial As An Alternative Material For
Automotive Cooling System

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Development Of Hybrid Nanolubricants For
Automotive Air Conditioning System

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Elucidate The Wear Rate Reduction Mechanism Of
Minimum Quantity Lubrication To Enhance Machinability
Using Hybrid Nanocoolant

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Mathematical Models Of Magnetohydrodynamic
(MHD) Micropolar Ferrofluid Over Various Surfaces

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Elucidation Of Graphene Nano-Particles Thermo-Physical Properties As Anti-Wear Additives In Engine Oil For Resistance Of Boundary Film Lubrication

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Mathematical Model for Convective Boundary Layer Stagnation Flow Past a Sheet in Viscoelastic fluid and Williamson Nanofluid

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Sustainable Optimization In Machining Stainless Steel
316 Under Dry Lubrication Using Uncoated Carbide
Tools

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Die Design And Engineering, Manufacturing Optimization
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New Technique Of Drilling/Cutting Of Polymer Composite
For Automotive Part By Low Power Laser

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Modelling And Optimization Of Assembly Sequence
Planning For Automotive Subassembly

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Machinability Study Of Structural Automotive Alloys Using
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Dynamic Characteristic Investigation Of Multi-Axial Fiber
Bragg Grating Accelerometer For Automotive Application

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Investigation And Optimization On The Effects Of
Biodiesel Usage Towards The Noise And Vibration In The
Diesel Engine

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Formulation Of Flexible Hybrid-Fuzzy Technique For Reliability
And Sustainability Assessment Model To Support Decision
Making In Early Phase Of Product Design

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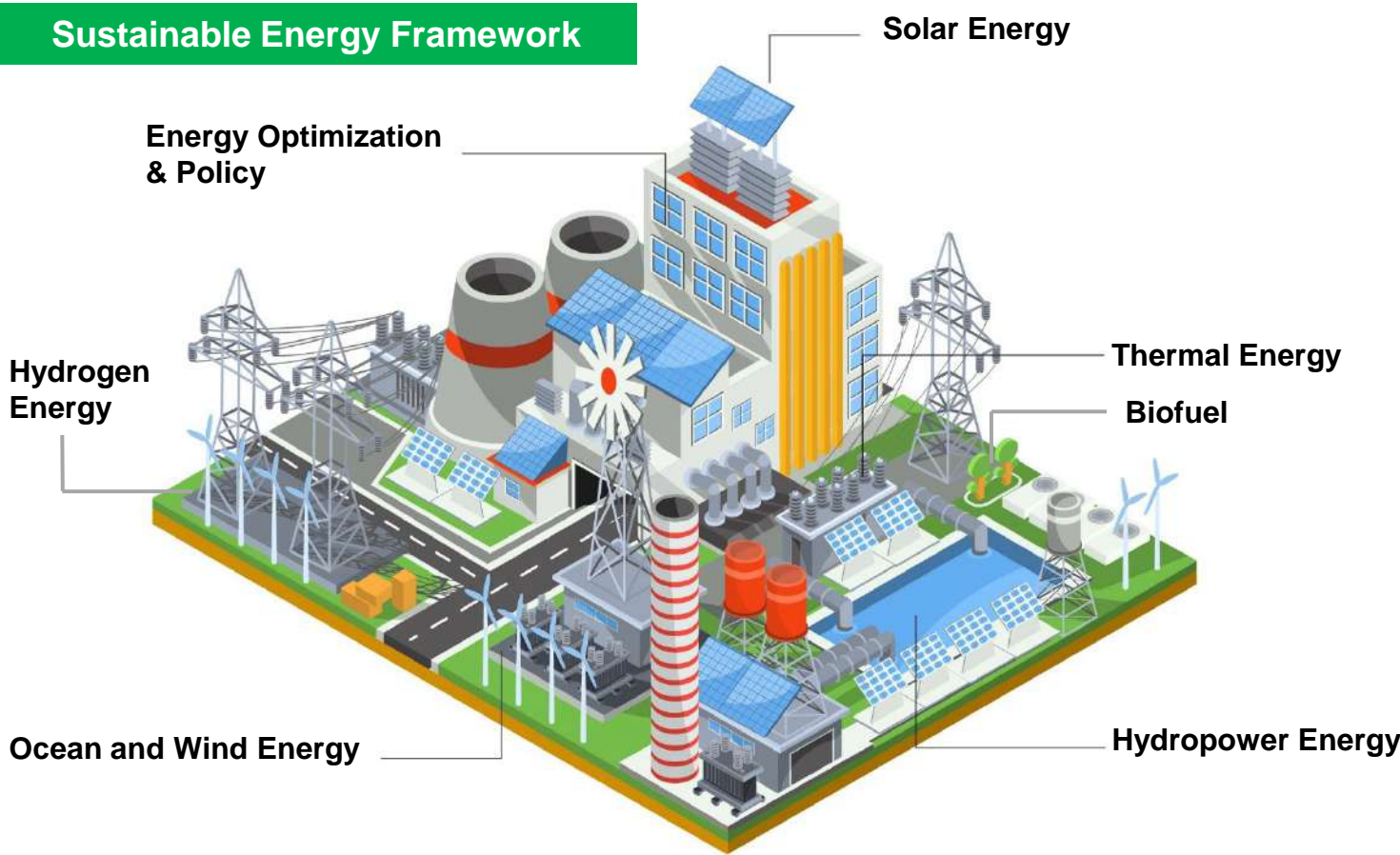




**SUSTAINABLE
ENERGY**

SUSTAINABLE ENERGY

The nation heavily relies on non-renewable based substances to produce its energy, including coal, diesel and natural gas. To be in line with Sustainable Development Goal 7 (SDG 7 – Affordable and Clean Energy), the effort has been enhanced to focus on greener options. On top of that, SEDA has initiated the Malaysia Renewable Energy Roadmap 2035 (MyRER), which is a strategic framework for a low-carbon power sector and is targeted to reach 31% of the renewable energy share by 2025. Thus, UMPSA has established Sustainable Energy focus area that consists of seven components.





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Flexible Dye-Sensitized Solar Module

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Performance Analysis of Floating and Submerged Photovoltaic System

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Formulation Of Microgrid Energy Management Of Energy Internet Using Fuzzy Based Model Predictive Control

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Theoretical And Experimental Investigations Of Lead Chalcogenide Quantum Confined Structures For Solar Cell Application Exceeding 10% Of Efficiency

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Formulate Zero-State Control Algorithm As A New
Converter Protection In Large Scale Grid-Connected
Photovoltaic System

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Solar Assisted Drying Systems With The Double Pass
Matrix Type Collector For Fish

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Development Of Solar Operated Portable
Water Pump For Agriculture Activities

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Solar Thermal Engineering

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Development Of Perovskite Solar Cell (3rd Gen)

As Power Source For Wireless Sensor Network

(Wsn) In Automotive System

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Inverter Control Optimization Using Grey Wolf

Optimizer (Gwo) To Reduce Overshoot Current In

The Grid-Connected PV System

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Energy Management Of Storage Batteries Based On

Forecasted PV Output For Small-Scale Standalone

System

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A New Local Feature Descriptor Based On

Directional Structure Map For The Hotspot

Detection In A Large-Scale Photovoltaic System

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Systematic Sustainability Assessment (Ssa) Tool For
Hydroelectric Project

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Optimization And Control Of Small Hydropower Plant
Operation

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Development And Optimization Of Screw Blade For
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Pristine Blade Characteristics Concept Emphasizing
Mathematical Model Optimization Of Floating
Undershot Wheel For Picohydropower Generators

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Formulation Of Sustainability Routing Curve
Assessment Model For Hydro-Electric Power Dam
Operation Due To The Climate Change Impact

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Development Of Portable Pico – Hydrokinetic Energy
Harnessing For River Application

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Optimization Of The Flow Characteristic In Various
Array Arrangements Of Multiple Picohydro Power
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Nanoenhanced Phase Change Materials For Smart Energy Storage And Management In Buildings

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Synthesis, Characterization And Studies On The Thermal Storage Performance Of Encapsulated Phase Change Material Composite Derived From Waste Materials

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Modelling And Analysis Of Modular Wind Turbine System

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The Development Of An Effect Of Integrated Photovoltaic And Wind Turbine For Distributed Connected

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Mathematical Modelling To Predict The Drag Force Behavior Of Vertical Axis Wind Turbine Blades For Energy Harvesting Enhancement

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Modelling Of Electrical Field Behavior On Wind Turbine Blade

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A Novel Approach For The Biohydrogen Production
From Palm Oil Mill Effluent And Subsequent Treatment,
Using Sequential Dark And Photo Fermentation

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Development Of Heat Transfer Techniques
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Analysis On Polyimide/Nanocrystalline Cellulose-
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Photocatalytic Study Of Rare-Earth Doped Oxides For
Hydrogen Production Via Photoreforming Process

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Hydrogen Production Using Gasification

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Production Of Syngas Via Bi-Reforming Of Methane From Biogas Over Palm Oil Fuel Ash Catalysts

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Elucidation Of Kinetics And Mechanism Of Dye Wastewater Treatment And Hydrogen Production Over Cqds/ G-C3n4 Photocatalyst

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Exploration Of Potential Native Microalgae (*Chlorella* Sp. and *Scenedesmus* Sp.) As A New Sources Of Hydrogen Production Through Biomass Fermentation And Stress Growth Pathway

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Correlation Between Surface Properties And Catalytic Performance Of Palm Oil Kernel Shell-Derived Carbon Catalyst For Cox-Free H₂ Production

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Photocatalytic Study Of Rare-Earth Doped Oxides For Hydrogen Production Via Photoreforming Process

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Investigation Of Eletrotrophs In Microbial Electrolysis Cell (Mecs) For Hydrogen Production

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Design And Efficient Performance Appraisal Of Hydrogen Fueled Automobile Engines Combustion Chamber And Port Injector

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Sustainability Assessment Of Biohydrogen Production
From Citrus Waste

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Performance And Emission Characteristic Of A Diesel
Engine Operating With Biofuel

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Advanced Biodiesel Production From Various
Bioresources And Waste Oil Blends

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Solid Catalyst System And Multiple Tubular
Reactor Designing For Biodiesel Production

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Lipids From Nannochloropsis Sp. And Scenedesmus Sp.
For Lipid To Be Used As Feedstock In Biodiesel
Production

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Production And Recovery Of Biobutanol From Oil Palm Frond Juice In A 2L Stirred Tank Bioreactor

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Analysis Of Mixing Behaviour In Oscillatory Baffles Reactor (OBR) In The Transesterification Of Refined Palm Oil To Produce Biodiesel Using Ca (CH₃O)₂ As A Heterogeneous Catalyst**My Profile****Associate Professor Ts. Dr. Sumaiya Bt Zainal Abidin@Murad**

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Investigation On The Performance Of Tubular Flow Reactor On The Esterification Of Highly Acidified Oil Using Heterogeneous Catalyst

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Reaction Mechanisms And Kinetic Establishment On The Sono- Fermentation And Sono-Enzymatic Hydrolysis For An Alternative Biofuel

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Torrefaction Of Oil Palm Wastes For
Enhanced Solid Fuel Properties

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Experimental And Theoretical Studies Of A Diving
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Products In Biodiesel Production

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Immobilization Of Chlorella Vulgaris For
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Bioprospecting Of Novel Biomass-Degrading
Genes Form The Rumen Of Cattle Using Integrated
Metatranscriptomic Analyses For The Production
Of Biofuel

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Investigation On Co-Pelletization Of Torrefied Forestry
Residues And Sewage Sludge As Binding Agent For Biofuel
Production

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Performance Analysis Of Grid Connected Photovoltaic Power Plant Using New Protection Scheme In Dc-Link

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Two Tier Design In Wireless Sensor Network To Select Cluster Head Using Fuzzy Logic For Energy Efficiency

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Integrated Planning And Management Model To Regulate Co2 Emission

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Adaptation Of Sequential Load Switching And Weather Prediction Algorithm In Preventing Energy Shortage Due To Unplanned Energy Utilization Of Photovoltaic-Based System

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Optimization Of Photovoltaic Distributed Generation In Smart Grid Distribution Network Considering Uncertainty For Power Loss Minimization Based On Fuzzy Embedded Grey-Wolf Optimizer (Fuzzy-Gwo)

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Systematic Optimisation Modelling Of Sustainable Palm Oil Mill Based-Biomass Cogeneration Facility In The Eco-Industrial Park

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019-7978595

Design And Development Of Battery Management System For 18650 Lithium-Ion Battery For Electric Vehicle

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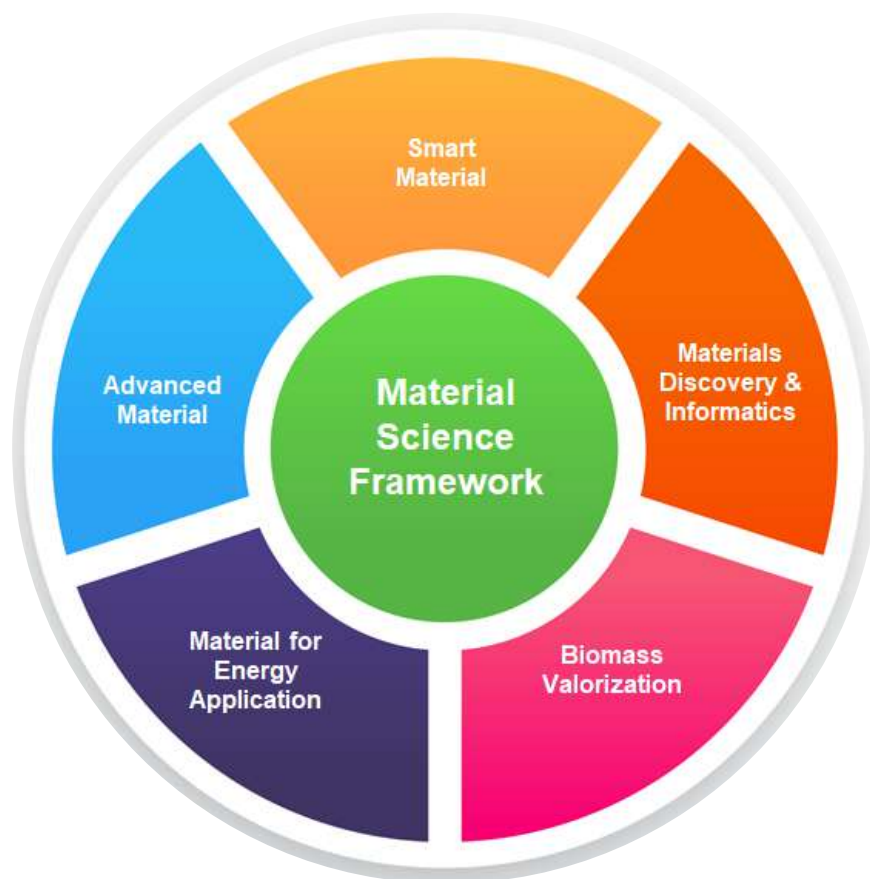
MATERIAL SCIENCES

MATERIAL SCIENCES

Material science is an interdisciplinary field that focuses on advancing the design and discovery of material. The novel or innovative materials with desired properties and behaviour provide new functionalities that lead to technological betterment and sustainability in society, and are key to become a high-income nation. The Malaysian government has implemented several policies related to material science, which include :

- 10-10 Malaysian Science, Technology, Innovation and Economy (MySTIE) Framework,
- National Policy on Science, Technology and Innovation (NPSTI) 2021-2030 and
- National Advanced Materials Technology Roadmap 2021-2030.

Numerous game changer materials have been proposed for various application. The university will support the initiatives and work together in accelerating the innovation ecosystem, reaching out to the industries, and building-up strategic partnerships with relevant parties on focused strengths, including smart materials, advanced materials, biomass valorisation, material for energy application, and material discovery and informatics.





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Bio-based Vitrimers: Synthesis And Functionalization For
Electrical And Optical Applications

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Production Of Polyhydroxyalkanoates (PHA) From Oil
Palm Biomass

My Profile



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Functioning Palm Mill Biomass-Based Carbon As A Solid
Acid Catalyst For Esterification Of Palm Fatty Acid
Distillate (PFAD)

My Profile



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019-9221475

Optimization Of The Pretreatment Of Red Meranti Wood
Sawdust For The Production Of Cellulose Using Response Surface
Methodology In Pilot Batch Reactor Tank

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Biochemical Platform For Conversion Of Diversified Lignocellulosic Biomass To Priceless Precursor And Biobased Fine Chemicals

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Development Of A Biomass Torrefaction System For Solid Fuel Production

My Profile



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Carbon Black From Pyrolised Agricultural Wastes As Electromagnetic Shielding Material

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Hybrid Hydrothermal Carbonisation Of Oil Palm Biomass: Process Optimisation And Evaluation Of Its Characterisation For Agro-Environmental Potential

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Development Of Torrefied Pellet From Palm Oil Waste For Biofuel Production

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Elucidation Of The Biotransformation Mechanism Of The Municipal Waste To Volatile Fatty Acids.

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Biomass-Based Carbon Aerogel From Oil Palm Waste Materials For Thermal Insulation Properties

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Dr. Rasidi Bin Roslan

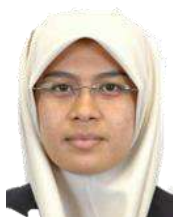
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Fast And Effective Production Of Nanocellulose From Biomass

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Utilization Of Food Waste As Biomass Energy
Source

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Production Of Ferulic Acid From Banana Stem Waste

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Formulation Of Locally Available Materials Into Catalyst
Support For Oil And Gas Industry

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Surface Modification Of Graphene Nanofillers Through
Controlled Radical Polymerization To Improve The Interaction
In Polylactic Acid (PLA) -Graphene Nanocomposites.

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Evaluation Of Properties Of Industrial Wastes As Adsorbents
In Removing Steryl Glucosides In Palm Based Biodiesel

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A Study On Properties Of MoS₂ Fabricated Using Vacuum
Thermal Evaporation Technique At Steady And Rapid Rate
Of Heating

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Nanocellulose-based Membrane For Water Treatment And Purification

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Mechanism And Molecular Interaction Of Carrageenan In The Crosslinking Of Cellulose Nanocrystals Biocomposite

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In Vitro Evaluation Of Electrospun Edible Bird Nest/Poly (Vinyl Alcohol) Scaffolds For Fibroblast Cell Proliferation In Wound Healing

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Characterization And Optimization Of Hydrophobicity And Thermo-physical Properties Of Fluorinated Palm Oil-based Polyurethane

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Mechanism Of Electrospun Bi-2223 Superconducting Nanowires With Controlled Grain Size In Forming Bulk Bi-2223 Superconductors

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A New Mechanism Of Double-negative Metamaterial-based Anti-reflective Coating Towards Vis-light And Near-infrared (NIR) Solar Energy

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Materials Formulation And Processing Design For Magnetic Ferrites Cores

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Elucidating The Effect Of Mechanical Durability, Optical Transparency And Conductivity Of Fabricated Copper Nanostructures-PTFE Thin Film

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Corrosion Resistance Enhancement Mechanism Of Hybrid
Modified Cellulose Nanowhiskers And Graphene Oxide Epoxy
Nanocomposite Coating

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Antimicrobials Encapsulated Nanoparticles For Socks To
Prevent Bromodosis

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Synthesis And Characterization Nanofiber Metal Oxide
Catalyst Via Electrospinning And Its Potential For Carbon
Dioxide Methanation

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Nanocarbons-graphene Hybrid Material As
High-Performance Supercapacitor

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Formulation Of A Titanium Carbide/Mxene (Ti₃C₂tx)
Nanomaterial Optical Property Model For Potential Heat
Transfer Liquid

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A Development Of Ceramic Reinforced Porous Carbon-
based High-performance Electrode Paste For
Supercapacitor Application

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Characterizing Of Mxene For Solar Application

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UMPCAP: Supercapacitor From Local Activated Carbon

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Enhancing Thermal Energy Storage Of Pvt System Using Modified Carbon-based Nano Phase Change Materials For Rural Applications

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Producing Favorable Mobile Free Ions Of Carboxymethyl Cellulose-polyvinyl Alcohol As Hybrid Polymer Electrolytes

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Behavioral Of Activated Carbon As Attached Growth In Microbial Fuel Cell For Wastewater Treatment And Energy Recovery Sustainability

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Atomic Diffusion In Superhydrophobic Laser Modified Glass Surface For Light Transmission Properties

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Design And Fabrication Of Functional Surfaces With Controllable Wettability, Adhesion And Reflectivity

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Development Of UV-curable Lignin-based Coating Aerosol Prototype With Cellulose Nanocrystal As Self-healing Accelerator For Automotive Application

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Ph-responsive Nanocontainer For Corrosion Inhibition Agent Of Smart Coating For Car Body Paint

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Investigation On The Effect Of Graphene/Photo Paper Composite In Mechanical Reinforcement And Tuned-phonon Detection (Strain Sensitive) For Polyvinyl Alcohol

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Evaluation Of Electromechanical Properties Of Stretch Sensor From Dielectric Elastomer

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An Artificial Neural Network-sine Cosine Algorithm (Ann-SCA) Based Hybrid Prediction Model For The Production Of Cellulose Nanocrystals (CNC) From Oil Palm Empty Fruit Bunch (OPEFB)

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Materials 4.0 @ Asean

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Integration Of Gasification Process And High Temperature Proton Exchange Membrane Fuel Cells For Stationary Applications: A Simulation Study

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Extending Internet Of Things (IoT) To Create A Manufacturing Condition Of Super-capacitive Energy Storage Materials

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The Role Of Nanoparticle-gemini Surfactant As Wax
Deposition Suppressant In Malaysian Crude Oil Using
Molecular Dynamics (Md)simulation

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A Machine Learning Based Keyphrase Extraction Technique
From Academic Literature For Implementing Material 4.0 @
ASEAN

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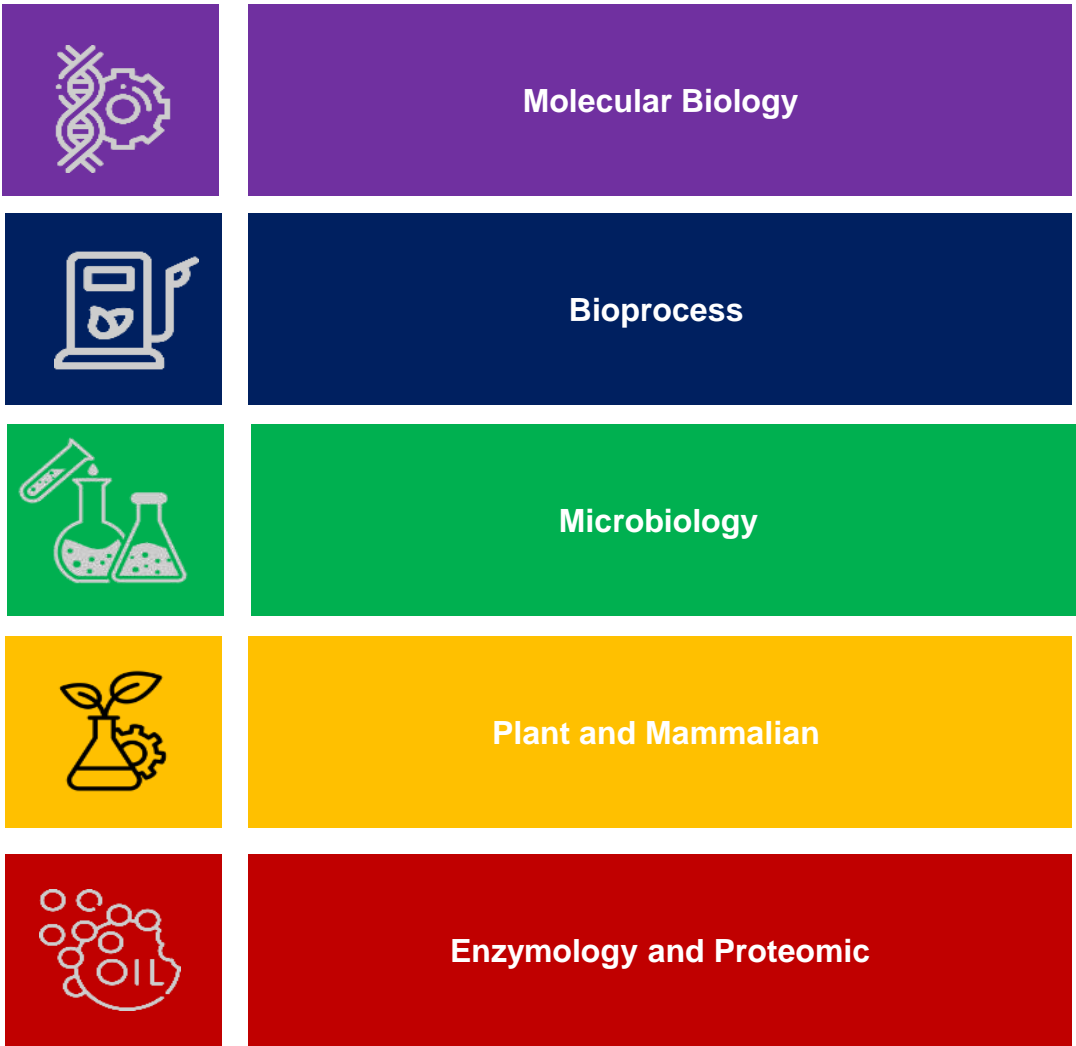


INDUSTRIAL BIOTECHNOLOGY



INDUSTRIAL BIOTECHNOLOGY

By 2030, biotechnology will transform Malaysia into a high-tech bio-innovation nation that is progressive, prosperous, inclusive and sustainable. Thus, UMPSA has established an Industrial Biotechnology focus area that consists of five components to facilitate those interested in exploring industrial biotechnology-related fields; Molecular Biology, Bioprocess, Microbiology, Plant and Mammalian, and Enzymology and Proteomic



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Isolation And Heterologous Expression Of Genes Associated With Formation Of Marker Compounds (Sesquiterpenes) Of Agarwood

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Structure-function Elucidation Of Indigenous Microbial Consortium In Rice Straw Degradation Via Integrated Analysis Of Metagenomic

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Elucidating The Role Of The Gut Mycobiome And Metabolomes As Putative Markers For The Prediction Of Colorectal Cancer Pathogenesis

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Assessment Of Antibiotic Resistance Genes, Heavy Metals And People On Landfill: A Preliminary Insight For A Sustainable Landfill

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Analysis Of Microbial Communities And Diversity In Malaysian Fermented Foods Using Metagenomic Approach

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Molecular Characterization Of The DNA And Protein Interaction, Cell-based Assay And Cytotoxicity, Phytochemical Analysis Of The Natural Products For Anti-cancer Properties

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Molecular Characterization Of Fragrance-Related Transcripts In Benzenoid/Phenylpropanoid Pathway Of Vanda Mimi Palmer (Fragrant-Orchid)

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Tertiary Treatment Of Palm Oil Mill Effluent (POME) By The Combination Of Microalgae And Activated Sludge Using Sequential Batch Reactor

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Kinetics Study of *Monascus Purperus* in Solid State Fermentation for Red Pigment Production

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Growth Kinetic And Microbial Dynamics Between Indigenous Microbes For Acetic Acid Production

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Elucidation Of The Effect Of Biosurfactant In Sequential Fungal And Hydrothermal Pre-treatment Of Lignocellulosic Waste For Sugar Recovery

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Elucidation of the Biotransformation Mechanism of the
Municipal Waste to Volatile Fatty Acids

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Kinetics And Isotherm Studies Of In-Situ Immobilized Laccase
On Bacteria Cellulose Valorize From Pineapple Waste For Dye
Degradation

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Pro-Golive: Mixed Starter Inoculum Powder

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Immobilization Of Potential Probiotics Of Lactic Acid Bacteria (LAB) Strains Isolated From Selected Fermented Products

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Evaluation Of Antibiotics And Antibiotic Resistance Genes In Wastewater Treatment Plant

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Profile study of microbial acetic acid production from pineapple peel waste

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Isolation Of Cellulolytic Microorganisms For Rice Straw
Degradation

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Mass Propagation On Pisang Lang And Pisang Tanduk

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Bioactive compounds of plants, Nutrition,
Carbohydrate quality and health: sugars and fibers, sugars
analysis

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Evaluation Of Human Wharton'S Jelly Stem Cells (HWJSCS) In
The Management Of Alzheimer'S Disease

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Investigation Of The Roles Of Cutaneous Papillomaviruses
Oncoproteins In Cellular Transformation

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Culture of human immunological cells

Human Type 1 diabetes

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The Isolation Of Bioactive Protein Of Tongkat Ali For The Elevation Of Testosterone Hormone In Male

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Development Of An Immobilized Biocatalyst With Keratinase And Protease Activities As A Multipurpose Cross-linked Enzymes Aggregate (Multi-clea) On Edible Bird Nest Cleaning Process

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Kinetic Studies On Transfructosylation By Fos-Producing Enzymes Isolated From Fruit Plantation

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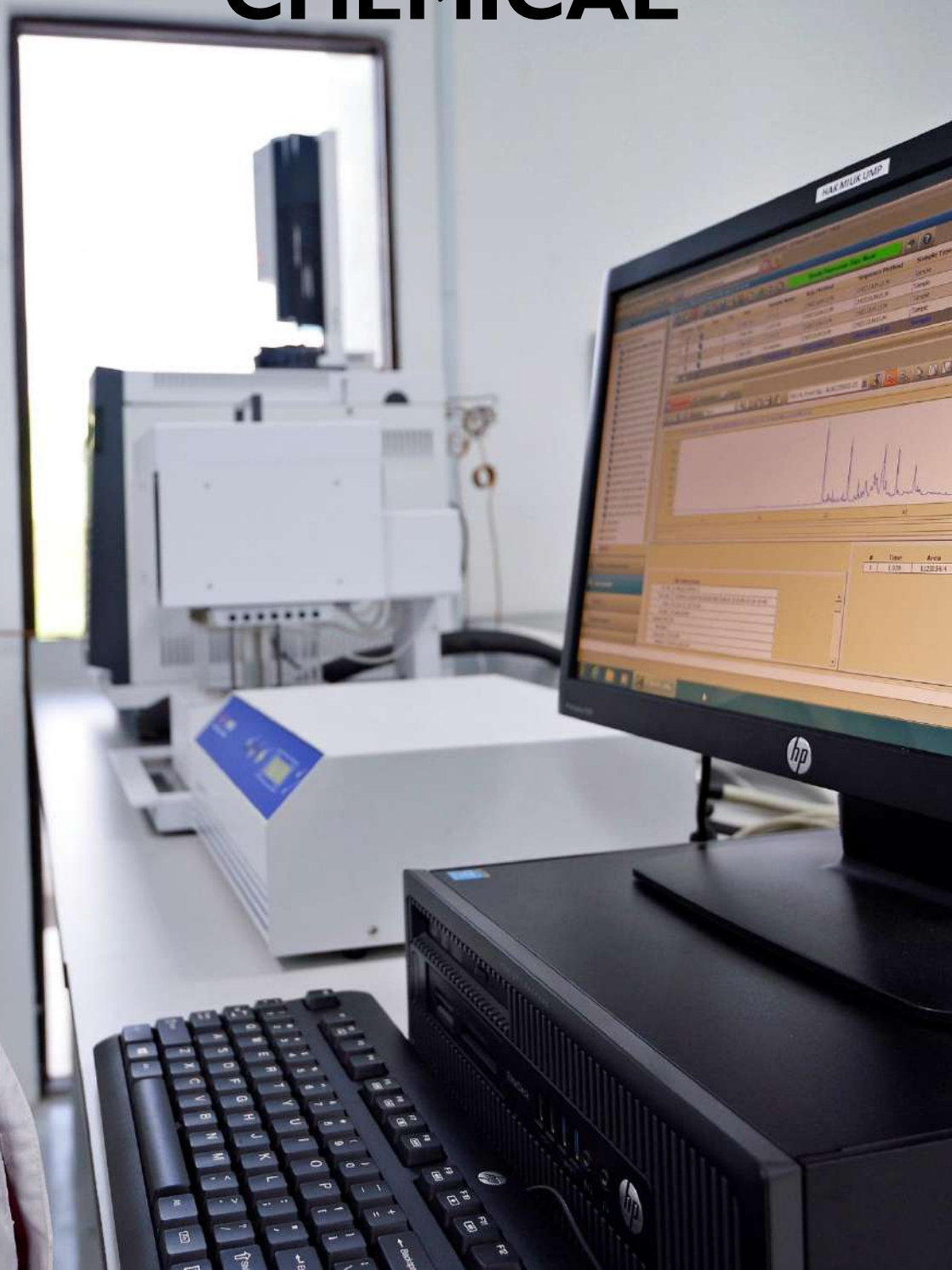
017-964 2839

Enzymatic Hydrolysis Of Protein For Bioactive Peptides. Transglutaminase Mediated Protein Conjugation

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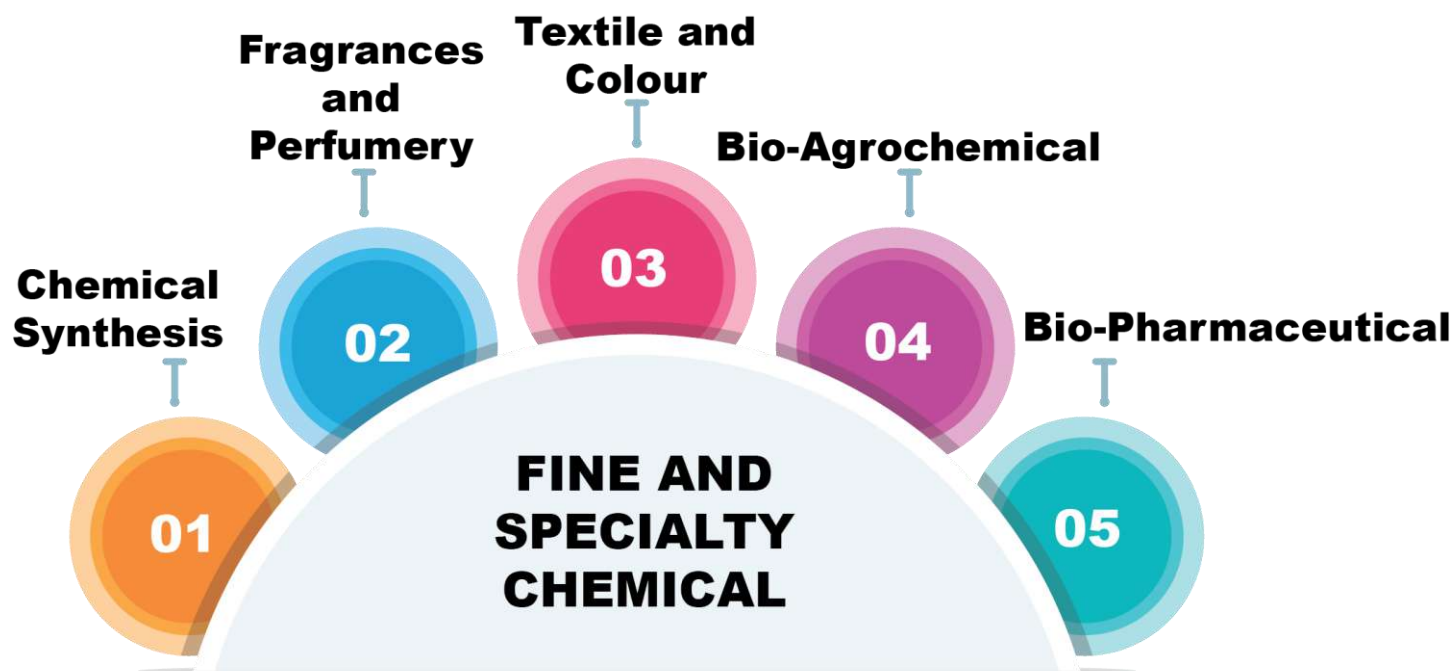


FINE AND SPECIALTY CHEMICAL



FINE AND SPECIALTY CHEMICAL

Fine and specialty chemicals are chemical substances that are produced by complex synthesis processes with a guaranteed degree of purity and possess properties that suit certain applications, depending on their respective active effect. The potential applications of fine and specialty chemicals include several examples of sectors that depend on fine and specialty chemicals, including pharmaceuticals, agrochemicals, electronics, automotive, cosmetics and construction. Five components are listed under fine and specialty chemicals focus areas at UMP SA, including Chemical Synthesis, Fragrances and Perfumery, Textile and Colour, Bio-Agrochemical and Bio-Pharmaceutical.



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Oil Palm Sap As A New Feedstock For The
Catalytic Synthesis Of Organic Carbonate

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Production Of Polyhydroxyalkanoates (PHA) From
Oil Palm Biomass

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Optimization Of Acid Pretreatment Of Lignocellulosic
Biomass For Xylooligosaccharides Production

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Synthesis And Characterization Of Metal Supported Sba-
15 Nanocatalyst For Conversion Of Carbon Dioxide To
Fine Chemicals

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Optimization, Scale-Up And Characterization Of
Sesquiterpene From Oil Palm Frond Juice

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Sythesize, Characterization And Performance Evaluation Of
Novel Pour Point Depresant (PPD) Polymer For Wax
Deposition Inhibition Of Malaysia Crude Oil

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Synthesis And Characterization Of Biodegradable
Plastic From Corn Starch And Nata De Coco

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Characterization Of Semi-refined Carrageenan (SRC) Based
Film Incorporated With A- Tocopherol

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Design, Synthesis And In Silico Evaluation Of Novel Anti-denv From The Lead Of Usnic Acid

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Synthesis Of Phytosterol From Cocoa Shell Waste (CSW) By Using Microwave Assisted Extraction Hydrodistillation (Mae-Hd) For Antidiabetic

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Production Of Ferulic Acid From Fiber Presses Oil Palm Frond (FPOPF) Biotransformation Using Ferulyl Esterases From Co-Culture Inoculum.

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Essential Oil Quality And Standards Based On Novel Marker
Compounds Isolated And Identified For Aqualaria Malaccensis

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Comparison Of Microwave Assisted Hydrodistillation With The
Conventional Hydrodistillation Method In The Extraction Of
Essential Oil

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Essential Oil Production From Patchouli (Pogostemon) Cablin
And Waste Recovery

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Incense Smoke Quality And Standard Based On Marker
Compounds Isolated And Identified For Agarwood (Gaharu)
Chipowoods

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A Method Of Determining Grade Of Agarwood At Ambient Temperature

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Molecular Cloning And Overexpression Of Stem Bromelain From Ananas Comosus In Kluyveromyces Lactis

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Production Of Aroma Compounds By Degradation Of Carotenoid From Crude Oil

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Development Of An Open Architaecture Temperature Module Of Hybro-Distillation Essential Oil Extractor

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Mechanism Of Antibacterial Action, Chemical Profiling
And Development Of Malaysian Honey As Topical
Antibacterial Hydrogel

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Evaluation Of In Silico And Chemopreventive Effects On Breast
Cancer Cell Lines Of Novel Flavonoid Hybrid Of Usnic Acid
Derivatives

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Development And Encapsulation Of Propolis Powder From
Raw Propolis Of Stingless Bees Species

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Crystallization Of Pharmaceutical Compound

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Stochastic Modelling Of The COVID - 19 Outbreak Under Non-Pharmaceutical Intervention (NPI) Enforcement

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Polymorphism Of Pharmaceutical Compound: 2,6-Dihydroxybenzoic Acid Case Study

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Development Of A Vaccination Capsule - An Optimal Vaccination Centre Virtual Model To Increase Agility, Flexibility And Performance Efficiency In Malaysia

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Study On Gelam Essential Oil: Extraction Technique Optimization, Pharmaceutical And Therapeutic Potential

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Hydrogels

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Production Of Fructooligosaccharides From The Enzymatic
Conversion Of Sucrose Catalyzed By Phytoenzymes Extracted
From Ananas Comosus Waste
Hydroponics And Aquaponics With Aiot In Qatar (Haia)

My Profile



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Isolation And Characterization Of Biodegradable Genes From
Municipal Solid Waste

My Profile





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Kinetic Mechanism Of Microbial Succession During Production Of Multi-Enzymes Via Solid State Fermentation Of Agro-Industrial Waste

[My Profile](#)



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Development Of High Quality And Economical Fertilier By Utilizing Palm Oil Mill Effluent (POME) Sludge And Red Gypsum (RG)

[My Profile](#)



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Synthesis And Field Evaluation Of In-Situ Slow-Release Fertilizer Hydrogel Based On Super Absorbance Polymer Composite For Home Gardening Applications

[My Profile](#)





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Optimization Of The Pretreatment Of Red Meranti Wood
Sawdust For The Production Of Cellulose Using Response
Surface Methodology In Pilot Batch Reactor Tank

My Profile



MANAGEMENT AND SOCIAL SCIENCE



MANAGEMENT AND SOCIAL SCIENCE

The Management and Social Science are key elements in supporting engineering and technological principles and development. In fact, The Management, Humanities and Social Science are also critical in ensuring the sustainability of digital innovation, and technical and engineering solutions. The Management, Humanities and Social Science focus area in UMPSA includes nine components such as Supply Chain, Logistics, Digitalisation & Operations Management, Sustainability & Environmental Management, Management Sciences, Entrepreneurship, Education, Gender & Knowledge Management, Accounting & Financial Management, Civilisation Studies, Islamic Studies, & Historical Studies, Social Studies, and Language Studies & Applied Linguistics.

1SUPPLY CHAIN, LOGISTICS, DIGITALIZATION
& OPERATIONS MANAGEMENT**2**SUSTAINABILITY & ENVIRONMENTAL
MANAGEMENT**3**

MANAGEMENT SCIENCES

4

ENTREPRENEURSHIP

5EDUCATION, GENDER & KNOWLEDGE
MANAGEMENT**6**ACCOUNTING & FINANCIAL
MANAGEMENT**7**CIVILISATION STUDIRS, ISLAMIC
STUDIES & HISTORICAL STUDIES**8**

SOCIAL SCIENCES

9LANGUAGE STUDIES & APPLIED
LINGUISTICS



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Practices In Relation Towards Operational Performance

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2RELOGCARCHAIN Using Blockchain Technology For
Carbon Footprint Tracking And Monitoring

[My Profile](#)



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A New Forecasting Algorithms For Performance
Measurement In Manufacturing Industries

[My Profile](#)



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Blockchain Network Model To Improve Supply
Chain Visibility Based On Smart Contracts

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Logistics-related Knowledge Process Capabilities
In Malaysian Courier Service Industries

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Investigation Of Abandoned Building In Malaysia
- Cause And Effect To The Social, Economy And
Safety

My Profile



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The Role Of Educational Supply Chain
Management (EduSCM) In Developing
Professional

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Customer Engagement Towards Mobile Banking: A
Study On Government Service Sector Employees In
Malaysia

My Profile





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Pairwise Aggregated Rank Based Approach for
Malaysian Eco-Friendly Car Purchasing
Preference

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Formulation Of Flexible Hybrid-fuzzy Technique
For Reliability And Sustainability Assessment
Model To Support Decision Making In Early Phase
Of Product Design

My Profile





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Interventions To Enhance Fishermen Value Chain
Towards Sustainability In Kuala Pahang

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Model For The Implementation Of Environmental
Technological Innovation In The Malaysian
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Formulation Of Macro-micro Safety Predictors In Construction Sites Based On DEMATEL Algorithm And Structural Equation

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Socio-economic Analysis And Business Model Of Nano-cellulose From Oil Palm Fiber And Its Composites For Biodegradable Food Packaging Application

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Development Of Decision-Making Framework
Decommissioning Malaysian Offshore Platforms

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Research On Ump Advanced Human Resources Administration & Management Effectiveness

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Identification Of Entrepreneurship Learning In
Technology Based Business Incubators

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Innovation Excellence Framework for Malaysian Higher Education Institutions.

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Knowledge Creation, Efficiency Performance And University Rankings: An Analysis Of Vietnam Universities

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A New Integrated Framework For Practitioners In English-based Huffaz Program For Preschools

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Formulation Of Slow Learners Cognitive Development Model Through Playground Equipment Design

My Profile





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Professional Development Programme for Zon Timur and Zon Barat Preschool Educators of Persatuan Pengasuh Negeri Pahang: Communication English and Effective Storytelling Techniques

My Profile



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Formulation of a New Creative Learning Framework for a Technology-Infused Language Learning Environment in the 4IR Context

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Meaningful English as Second Language (ESL) Seamless Learning Model for B40 Undergraduates in the East Coast of Malaysia

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Formulation Of The Sustainable Educational Development Model (SEDM) To Evaluate Workforce Contribution Based On Migrant Labours In Malaysia

My Profile





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Does Government Monitor Managerial Overconfidence To The Benefits Of Promoting R&d Investments Among Malaysian Listed Companies?

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Role Of Life Cycle Cost Analysis To Examine Economic Assessment Of Artificial Intelligence Based Malaysian Petrochemical Industrial Wastewater Treatment

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Stock Market Modeling And Forecasting: Stock Market Return And Volatility Behavior During Covid-19 Outbreak On Asean Stock Market

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The Application Of Islamic Reflexology Treatment To Cure
Erectile Dysfunction (Ed): A Study On Its Effectiveness To
Patients In Al-manarah Islamic Treatment Centre At Kuang,
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Modeling A Fundamental Of Islamic Finance System
Based On Maqasid Al-Shari`Ah

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Formulasi Asas Astrometri Dalam Penentuan Zon Waktu
Solat Di Kawasan Tanah Tinggi Dan Sempadan Di Pahang

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Kajian Keabsahan Batu Nisan Permatang Pasir Bukti
Kedatangan Terawal Islam

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Pembangunan Dan Pengujian Program Latihan
Pemulihan Dadah Berbantuan Latihan Spiritual Islam
Dan Biofeedback Untuk Pengukuhan Kepulihan Orang
Kena Pengawasan (OKP)

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Pembangunan 'Mental Model' Bagi Pengukuran
Wasatiyah Dan Extremism Dalam Kalangan Umat Islam
Di Malaysia

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An Analysis of Foreign Language (FL) Learner Writing:
The Role of Feedback and the Classroom Environment

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Kajian Tahap Keterancaman Bahasa Che Wong (Study
Of Threatened Level Of Che Wong Language)

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Arabic Language and Medieval Arabic Literature

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A New Competency Based Framework For English For
Specific Engineering Purposes (ESEP) Practitioners

My Profile





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A CEFR-aligned English Language Proficiency Writing Test Framework for Higher Education: A Way Forward Approach

My Profile



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Development Of A Process Model For CEFR-Informed English Syllabus For Age 4 For Malaysian Preschools

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Developing a Customised Essay Generator App to Facilitate ESL Learners Writing Tasks

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Arabic Language

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Applying Multiple Intelligence Theory In Foreign Language Teaching (German As Foreign Language In UMP)

[My Profile](#)



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Using "Hot Potatoes" Application To Develop An Online Vocabulary Test

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Assessment Modelling For Creativity Enhancement And Cognitive Load Management In Technical Writing

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An Analysis Of Foreign Language (FL) Learner Writing: The Role Of Feedback And The Classroom Environment

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English For Specific Academic Purpose Mobile Learning
(MOESAP) Prototype For Engineering Students'
Communication Skill: Development & Evaluation

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ADevelopment Ump English Language Proficiency Test
(UMP-ELPT)

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Virtual Reality Teaching Approach In Reading Classroom

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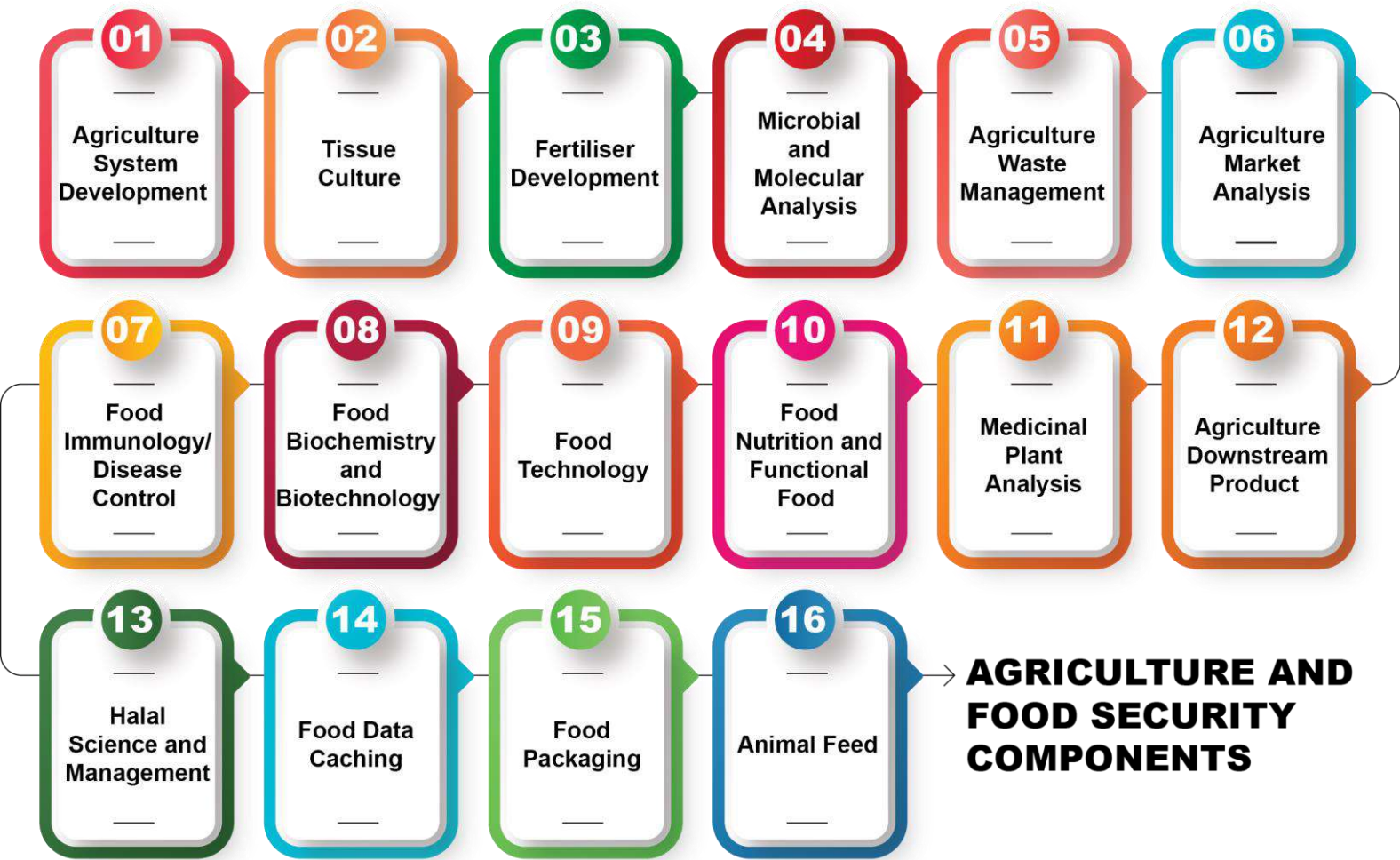




AGRICULTURE AND FOOD SECURITY

AGRICULTURE AND FOOD SECURITY

The Agriculture and Food Security play important roles in securing the nation during challenging times like pandemic, natural disasters, regional conflicts, economic downturn etc. The Agriculture and Food Security focus area consist of 16 key components including the number of experts from UMPSA for each key component that can be a reference to those interested in increasing the crop yield and planning strategic food security measures in Malaysia.





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Potential Groundwater Assessment for Agriculture Field
Irrigation Using Geo-Electrical Resistivity Method

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Aquaponic system

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IoT-Powered Solar Irrigation System for Oil-Palm
Prenursery

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Optimised Design Agriculture Drone for Small Scale
Farmers

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UMP Model Farm: Fertigation Economic Driven

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Microbubbles Generator for Agriculture

My Profile





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Mass Propagation on Pisang Lang and Pisang Tanduk

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Characterisation of Aquilaria malaccensis Callus Cells using
SEM and Somatic Embryogenesis Associated Genes
Identification

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Studies of Single-Coated Controlled-Release Fertilizer and Water-Retention (Crwr) with Green Supersorbent Polymer Composites

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Kleva Bio Fertilizer Plus +

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Slow-Release Fertiliser Hydrogel

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Hydroponics And Aquaponics with Aiot in Qatar (Haiat)

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Establishment of Optimum BiofertiSer'S Parametric
Conditions for the Plantation of Fruit, Essential Oil and
Herb Plants

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Isolation and Heterologous Expression of Genes
Associated with Formation of Marker Compounds
(Sesquiterpenes) of Agarwood

My Profile



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Metagenomics Analysis of Microbial Community in a Palm
Oil Mill Biogas Plant

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Transcriptome Profiling of Stevia Rebaudiana MS007
Revealed Genes Involved in Flower Development

My Profile



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Elucidating the Role of Gut Microbiomes and Metabolomes
as Putative Biomarkers Sea Cucumbers Species from East
Coast, Malaysia .

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Fundamental Application of Two-Stage Fermentation for Sustainable Hythane Production and Treatment Efficiency of Palm Oil Mill Effluent

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Investigate the Effect of Polyvinyl Alcohol (Pva) in Peat Soil as Natural Adsorbent to Reduce Malodour Problem at Palm Oil Mill Effluent (Pome)

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A Noble Knowledge Management Framework For
Agriculture Industries In Malaysia

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Empirical Analysis On The Critical Success Factor For
Benchmarking Implementation In Palm Oil Industry

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Ananaspro: Green Detergent From Pineapple
Byproducts

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Optimization Of Acid Pretreatment Of Lignocellulosic
Biomass For Xylooligosaccharides Production

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Development Of Cocoa Leaves As Potential Source Of
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Fundamental Study On The Reaction Mechanisms And
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Juice In A Stirred Tank Bioreactor

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Understanding The Reaction Mechanism Of Feruloyl-
Polysaccharide Hydrolysis Of Banana Stem Waste Using
Mixed Culture From Soil

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Ferulic Acid Production From Banana Stem Waste
Using Mechanical Extraction

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Formulation Of Enzyme Juice Derived From Pineapple
Waste To Be Used As Poultry Feed

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Effect Of Auxiliary Energy On The Yield Of Polyphenols

Extraction From Andrographis Paniculata

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Charaterization Of Bioactive Compounds Extracted

From Bitter Leaf (Vernonia Amygdalina) Using Soxhlet

And Microwave Assisted Methods

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Formulation Of Microemulsion Containing C.Nutans

Extract For Topical Antifungal Therapy

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Mechanism Of Self-Diffusion And Molecular Recognitions

Of Mahkota Dewa (Phaleria Macrocarpa) Active

Ingredients In Green Solvents Extraction Process

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Effects Of Christia Vespertilionis Leaf Extract Against Breast Cancer Cell Line And The Expression Of Growth Receptor

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Quality Control At The Farm Level In Producing High Quality Herbal Raw Material Product In Malaysia

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Extraction Of Phytochemical Compound In Leucaena Leucocephala (Petai Belalang) By Using Microwave Assisted Hydrodistillation (MAH)

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Testosterone Boosting Capabilities of the Isolated Protein in *Eurycoma Longifolia* (Tongkat Ali) Root As the Active Ingredient of Prototype Product: Men Hormone Generator (Mhg)

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Effect of Drying Methods on Nutrient Composition and Physicochemical Properties of Malaysian Seaweeds
Determination of Proximate Composition of Malaysian Horseshoe Crab (*Tachypleus gigas*)

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Bioactive compounds of plants carbohydrate quality and immunomodulatory

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Evaluation of the Aqueous Extraction Method for the Determination of Taste Active Compounds in Selected Malaysian Durian Cultivars and their Techno-Functional Properties

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Production of Pineapple Vinegar from Pineapple Fruits
and Microbes Inhibitor from Pineapple Leaves

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Development of Colour Measuring Instrument for
Canned Pineapple using Image Processing
Technique

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Physicochemical properties and tenderness analysis of bovine meat using proteolytic enzymes extracted from pineapple (*Ananas comosus*) and jackfruit (*Artocarpus heterophyllus*) by-products

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Metagenomic Analysis for Assessing Microbial Communities and Diversity in Malaysian traditional Prebiotic Fermented Foods

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Development of Natural Additives for Organic Derived Semi-Processed Foods to Extend the Shelf Life

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Production of Pineapple Vinegar from Pineapple Fruits and Microbes Inhibitor from Pineapple Leaves

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Investigation Disease Related to White Shrimp
(*Fenielopnaeus Vannamei*) Aquaculture Industry

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Modelling the Impact of Covid – 19 Border Reopening for
Malaysia Using SIRD Compartmental Framework

My Profile





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Halal Gelatin Production Incubator Development

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Application of Milk Coagulants from Selected Plant Sources in the Development of Halal and Value-Added Dairy Products

My Profile



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Carboxymethyl Sago Starch (CMSS) As Halal Thickener for Food and Beverages Industry

My Profile



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Developing CMSS Application in Pharmaceutical as Halal Binder, Thickener and Soft/Hard Capsule

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Analysis of Gelatin Extracted in Bovine Bone for its
Protein Quality and Safety

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Development of Microbiological Testing Procedure for
Edible Gelatine

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Physical and Chemical Testing of Gelatine Protein
Products

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Extraction of Halal Gelatin from Bovine Bones

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Halal Supply Chain Adoption Barriers Among Halal Manufacturers in Malaysia

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Improving the Integrity of Halal Supply Chain Management through Blockchain Technology

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Membangunkan Kit Maklumat Halalan Tayyiba (Developing Information Kit)

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Organizational Innovativeness Among Model of Success SMEs in Malaysia Halal Industry

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Development of Islamic Personal Comprehensive Guidelines
and Kit Complaint with Halal- Adhered Slaughter Procedure

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Maqasid Syariah And Halal Studies

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(Developing Information Kit)

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Modelling and Simulation for Quick Steam Food
Processing in Vending Machine

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Food Chain on Database and Ontology (Food
Traceability)

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The Roles of Silver Nanoparticles into Cellulose Nanocrystal (CNC) to Reinforce Biodegradable Composite Film for Antimicrobial Food Packaging Application

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Development of New Carrageenan Active Packaging Film Incorporated with Natural Antioxidant from *Eucheuma Cottonii* and *Kappayachus Alvarezii* Seaweed

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Formulation of Food Packaging from Palm Oil Waste Cellulose

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Investigation of Feed Quality and Growth Performance of Poultry by using Seaweed as a Pellet Binder

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The effect of Protein Composition on the Properties of Fish Pellet

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Elucidation Of In-Vitro Poultry Feed Digestion Kinetics Through Enzymatic Hydrolysis Using Local Pineapple Enzymes

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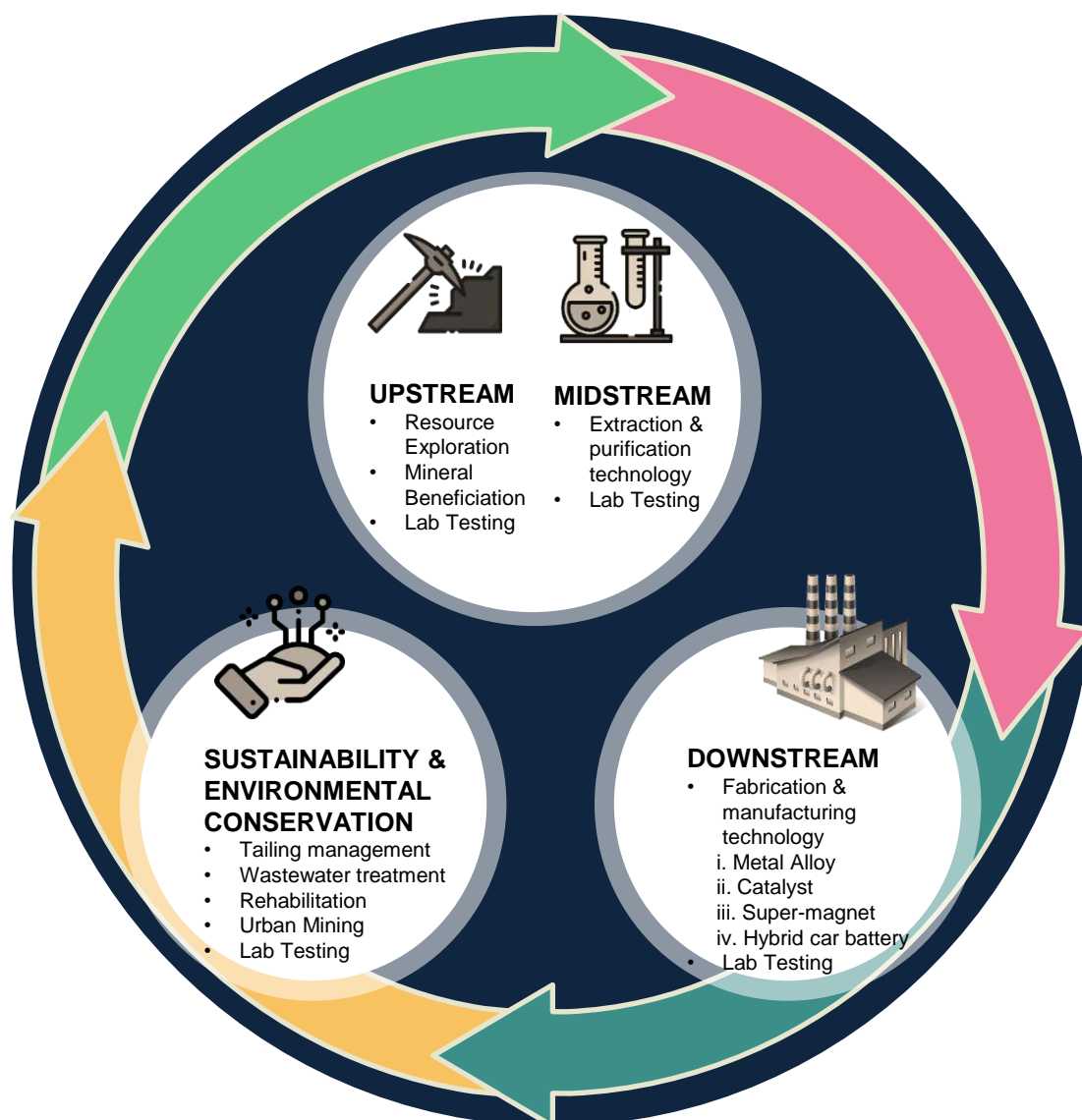




**RARE EARTH
MINERAL**

RARE EARTH MINERALS

Malaysia has strategised its mineral industry development by focusing on RE minerals as a strategic mineral commodity. In UMPSA, the Rare Earth Mineral focus area consists of four components based on Rare Earth Mineral value chain, which are Upstream Sector: **Rare Earth Mineral Mining Activities**, Midstream Sector: **Rare Earth Mineral Processing**, Downstream Sector: **Rare Earth Mineral Application**, and **Sustainability and Environmental Conservation**.





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Gold And Rare Earth

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Ionic liquid Studies On Isotherm, Kinetic And Mechanism Of Rare Earth Elements (REE) Adsorption On Polymeric Resin Supported Ionic Liquid (PSIL)

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Leaching system and solvent extraction design, modelling & optimization.

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REE separation using liquid membrane

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Subsurface Exploration And Modelling To Determine
Potential Ore Body On Secondary Deposit

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Development Of Solvent Extraction Process Model For
Separation Of Rare Earth Elements

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Modelling And Simulation Of Separation Sequence Of Rare Earth
Elements

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Mathematical Modelling Of Rare Earth Recovery By Ion
Exchange Leaching From Ion Adsorption Clays

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Metal Oxide Semiconducting Hole Transport Materials For Stable Perovskite Solar Cells

UMPSA World's Top 2% Scientist

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Evaluation Of The Ce-Based Materials As F Ions Removal

UMPSA World's Top 2% Scientist

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Metal Oxides-Conducting Polymers Composites For High Performance Asymmetric Supercapacitor Assembly

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Study Of Photocatalytic Degradation Of Pome Over Lanthanum Doped Calcium Derived From Cockle Shells

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The Effect Of Alkali And Rare Earth Metals Loading On Waste Deoiled-Spent Bleaching Clay As A Catalyst In Transesterification Reaction

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Light Rare Earth Oxide Nanoparticles As Flux Pinning Centers To Enhance Critical Current Density In Ag-Sheathed Bi-2223 Superconductor Tapes

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Photocatalytic Study Of Rare-Earth Doped Oxides For Hydrogen Production Via Photoreforming Process

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Synthesis And Characterization Of Ni-Based Catalysts Modified With Rare Earth And Alkaline Metal Oxides (CeO_2 , La_2O_3 , BaO) For Methane Cracking

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The use of gypsum and waste gypsum for electrical grounding backfill.

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Investigation On The Physical And Chemical Properties Of Bauxite Mining And Solutions To Minimize The Potential Environmental Impacts In Kuantan

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Development Of Real Time Radiological Monitoring Framework Based On Lynas Advanced Materials Plant (LAMP)

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The Application of Unmanned Aerial Vehicles (UAV) for Slope Mapping with the Determination of Potential Slope Hazards.

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Development Of Optimal Supply Chain Model For Malaysian Rare Earth Resources

My Profile



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Development of a continuous pneumatic jig for solid waste separation.

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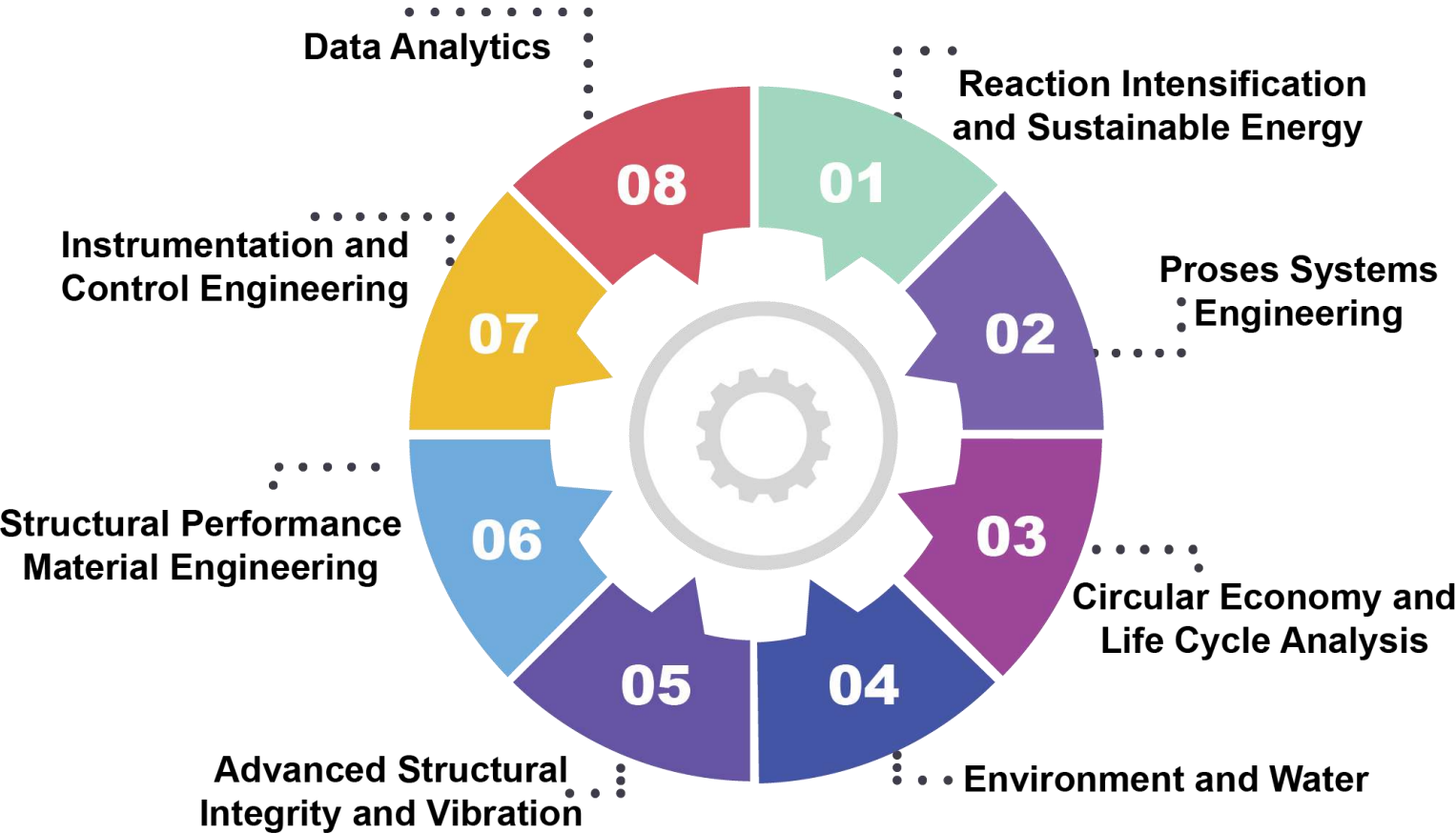




PETROCHEMICAL

PETROCHEMICAL

Malaysia is rich in oil and gas reserves, and petrochemical feedstocks, as well as equipped with world-class facilities in petrochemical zones such as Gebeng Industrial Estate. Malaysia petrochemical industry anticipates an annual growth of 5-6%. The strategic location of UMPSA provides favourable opportunities to the petrochemical focus area in collaborating with the petrochemical industries in the following components: Reaction Intensification and Sustainable Energy, Proses Systems Engineering, Circular Economy and Life Cycle Analysis, Environment and Water, Advanced Structural Integrity and Vibration, Structural Performance, Material Engineering, Instrumentation and Control Engineering, and Data Analytics





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Methane Dry Reforming Over Electrospun Nanofibrous Ni-
Based Catalyst For Hydrogen-Rich Syngas Production

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Photodegradation Of Dibenzothiophene Using Modified Fibrous
Silica (Kcc-1) Catalyst

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Ethylene Production From Ethanol Dehydration Over SBA-
15 Derived From Palm Oil Fly Ash

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Transfer Of Reactor Modeling Knowledge For Intensifying
The Production In A Petrochemical Plant

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Hydrogen Production Via Simultaneous Reactions Of Methane Reforming And Water Splitting Using Hollow Fiber Perovskites Membrane Reactor

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Reaction Kinetics Of Methane Dry Reforming Over Ni/Efb Biochar Catalysts

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Development Of Torrefied Pellet From Palm Oil Waste For Biofuel Production

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Kinetics And Mechanistic Studies Of Photocatalytic Reduction Of CO₂ Over Phytochemically Synthesized Ag Doped TiO₂ Nanoparticles

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Development Of A Monitoring And Control System For Operational Study Of Dividing Wall Column Pilot Plant

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Process Analysis, Modification And Improvement Of A Small-Scale LNG Plant

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Quantitative Risk Assessment In Blending Unit Operation For V-Blender

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Mechanism of Interaction Between Concentration Polarisation and Biofouling For High – Permeance Membrane

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Determinations Of Low Carbon Supply Chain Practices To Achieve Low Carbon Performance In Manufacturing Industry

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Role Of Life Cycle Cost Analysis To Examine Economic Assessment Of Artificial Intelligence Based Malaysian Petrochemical Industrial Wastewater Treatment

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Environmental Lifecycle Assessment

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Techno Economic Analysis

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Catalytic Wet Air Oxidation (CWAO) Of Phenol At Atmospheric Pressure

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Mercury Removal From Petrochemical Wastewater Using Portable Mercury Removal Rig (PMRR) For Enhancing Water Quality

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Air Pollution Assessment On Particulate Matter Dispersion At Mega Construction Site

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Bioremediation Of Amine Contaminated Wastewater Using Indigenous Bacteria

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Development Of Ion Imprinted Polymer For The Arsenic Species Removal From Bauxite Mine-Impacted River Water And Sediments In Pahang Terrestrial, Malaysia

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Waste-based Drug Epidemiology Study In Selected Malaysia Cities. Collaboration Study With Indah Water Konsortium Malaysia

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A Novel Demulsifier, Nd-20-02 Assisted Microwave Technology For Separation Of Crude Oil Emulsions

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Development Of Composite Smart Structures

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Development Of Single Sensor Leak Detection System Based On Pressure Transient For Field Testing

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Structural Dynamics And Vibration

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Characterization Of Natural Fibre Sandwich
Structure Based On Corrugated Core

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Low Cycle Fatigue Behaviour Of High
Tempature Material

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Reliability Evaluation Of Hardening Models To Predict
Defects In Deep Drawing Metal Forming

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Metallurgy And Materials

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Impact Modelling Of Automotive Side Member Made
Of Martensitic Boron Alloyed Steel

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Local Fracture Criterion Model For Ductile Failure
Of Api Steel Pipes

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Formulation of Initial Flaw Size for New Crack Growth
under Fatigue Loading

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Development Of Tele-operated Pipeline Inspection
System With Flexible Mechanism

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Stabilization Of Underactuated Autonomous Underwater
Vehicles Based Backstepping Control

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Ultrasonic Transmission-mode Tomography For
Multiphase Flow Regime Identification

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Terahertz Sensing Analysis For Early Detection Of
Ganoderma Boninense Disease Using Near
Infrared (Nir) Spectrometer

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Application Of Statistical Classifiers In
Modelling And Prediction Of Cardiovascular
Diseases (CVDS) Using Newly Devising Score
System

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Prediction Of Potential Addiction To Online Gaming
Using Particle Swarm Optimization

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Formulation of Hybrid Fuzzy Multi-criteria Decision-
making Model to Risk Assesment in Oil and Gas Industry
Using Hesitant Uncertain Linguistic Z-numbers

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CONSTRUCTION



CONSTRUCTION

The Ministry of Work’s National Construction Policy (NCP) 2030 is one of the government’s initiatives in transforming the Malaysian construction industry towards the digitalisation era. Construction is one of the UMPSA focus areas that covers several components including Strengthen Quality and Safety, Embrace a Sustainable Built Environment, Improve Construction Productivity, Strengthen Infrastructure Maintenance, Strengthen Internationalisation and Competitiveness, and Strengthen Good Governance and Adoption of Best Practices.

CONSTRUCTION COMPONENTS



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Pembangunan Modul Atas Talian Building Information Modelling (BIM) For Contractor Part 1

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Behavioral Based Safety In Construction Industry

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Feasibility Study On The Application Of Building Information Modelling (BIM) As A Tool To Achieve A Sustainable Development For Public Healthcare Facility Project

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Construction Quality Assessment (CQA) Mobile Application

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Formulation Of Macro-micro Safety Predictors In
Construction Sites Based On DEMATEL Algorithm
And Structural Equation.

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Development Of Porous Concrete Drainage Cover
Slab From Waste Material

UMPSA World's Top 2% Scientist

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Feasibility Survey For Utilizing Super Well Point
Method For Soft Ground Improvement And Flood
Prevention, Malaysia

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Transfer Of Energy Efficient Ground Exchanger System
For Improving Thermal Comfort Of Building Indoor
Environment

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Development Of GIS-based Flood Inundation
Extent By Incorporating Change Detection And
Image Fusion With 2d Numerical Flood Modeler In
Kuantan River Basin

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Development Of Precast Lightweight Concrete Fencing Wall Panel Containing Industrial Waste

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Elucidation Of Blended Cement Using Industrial Waste

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Consultation To Conduct A Feasibility Study On The Solar Rooftop Project At The UMP Holding Complex

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Water Conservation Program: Rainwater Harvesting System At Sports Complex, UMP Gambang Campus

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Application Of Digital Surface Model To Investigate The Potential Slope Hazard

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Penyediaan Pelan Pengurusan Lembangan Sungai Bersepadu Sungai Muda, kedah/Pulau Pinang (Seksyen Pemodelan & Kualiti Air

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Elucidation On The Effect Of External Strengthening Technique By Bamboo Fiber Composite To The Mechanical Properties And Durability Of RC Beams With Openings In The Shear Zones

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A Study Of Potential Aerated Wall Block By
Using By Product Of Palm Oil Fuel Ash (POFA)

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Development Of An Integrated Decision Support
Tool For Green, Well, And Universal Building
Design: The Case Of Well Building

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Development Of Domestic Wastewater Treatment Facility
Using Integrated Bioremediation And Phytoremediation
Technology For Refurbishment Of Oxidation Pond Process
Via Phytogreen UMP

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Forecasting The Future Flow Characteristics Of Pahang
River Basin With Climate Change Adaptation"

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Elucidating The Determinants Of House Owners To Green Retrofit: Consumer Adaptation Of Green Building Based On TPB And Motivation-opportunity-ability Theory

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Smart Traffic System For Universiti Malaysia Pahang Pekan Campus

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Formulation Of Wind Storm Risk Assessment Model For Building Damages In Northern Peninsular Malaysia

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Role Of Socio-economic And Property Variables For Flood Hazard And Vulnerability Mapping At A Data-scarce Area

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Formulation Of Accessibility In Malaysian Housing
Based On Universal Design Concept

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Formulation Of A Hybrid Salinity And Hydrological Model
For Sustainable Water Resources In The Kuantan River
Basin

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Investigating The Root Causes Of Effective
Enforcement Of The Erosion And Sediment Control
Plan In Construction Projects

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Air Pollution Assessment On Particulate Matter
Dispersion At Mega Construction Site

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Integration Of Probabilistic Life Cycle Costing And
Fuzzy Analytical Hierarchy Process For The
Development Of Decision-Making Model In
Sustainable Construction

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Research And Development Of Magnetic Patch For
Leaked Pipeline Repair



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Microstructure Interaction Mechanism Of
Asphalt Binder Incorporating Natural Fibers

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Evaluation On The Rheological And Mechanical
Properties Of Concrete Containing Eggshell And
Tire Crumb

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Satellite-based Landslides Susceptibility Modelling In
Kuantan River Basin

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Kencrete: Green Materials For Building Structures

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Assessment Of Organizational BIM Capabilities

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