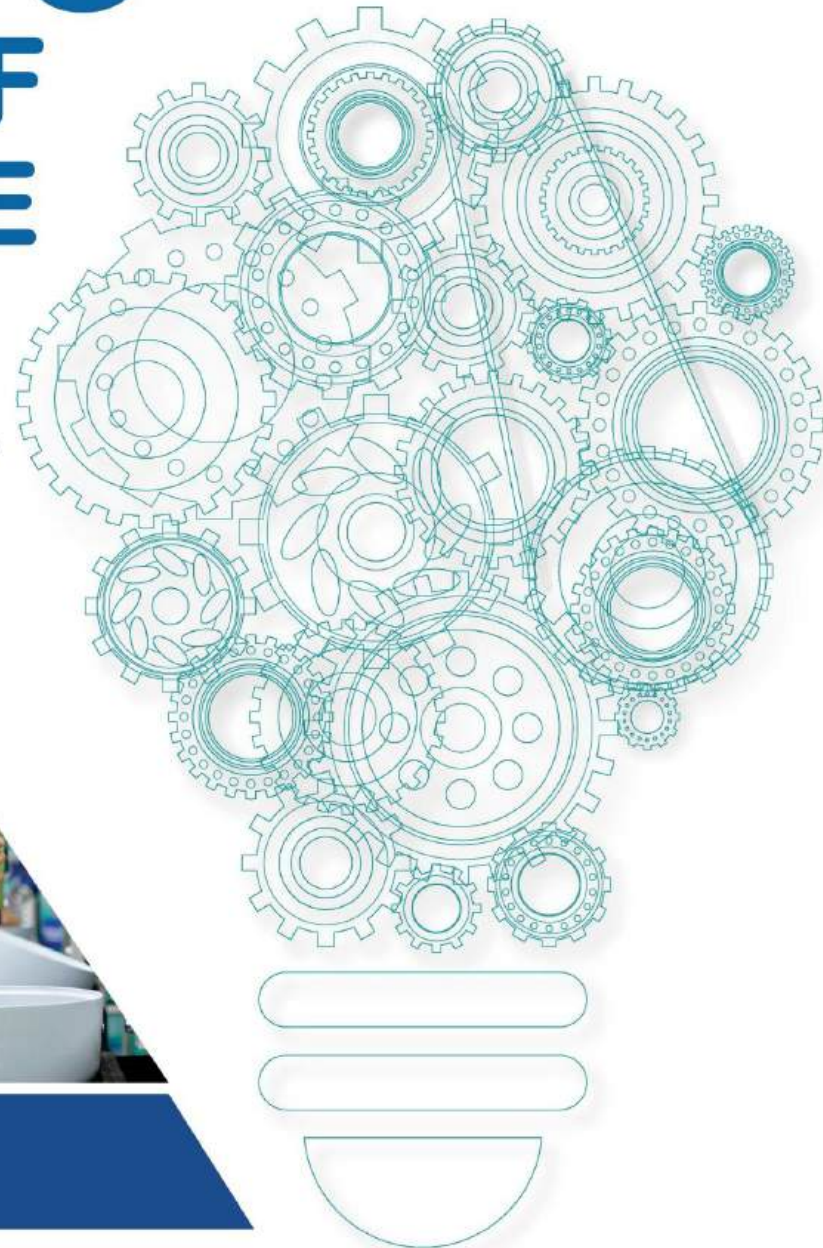




UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH

UMPSA'S CLUSTER OF KNOWLEDGE



UMPSA'S CLUSTER OF KNOWLEDGE

UMPSA'S CLUSTER OF KNOWLEDGE

Penerbit
Universiti Malaysia Pahang Al-Sultan Abdullah,
Kuantan
2024

All right reserved.

Apart from fair dealing for the purpose of study, research, criticism or review, as permitted under the Copyright Act, no part of this book may be reproduced, stored on a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission from Penerbit Universiti Malaysia Pahang Al-Sultan Abdullah, Lebu Persiaran Tun Khalil Yaakob, 26300 Gambang, Kuantan, Pahang Darul Makmur.



Cataloguing-in-Publication Data

Perpustakaan Negara Malaysia

A catalogue record for this book is available
from the National Library of Malaysia

ISBN 978-629-7641-00-0

Director Penerbit : Dr. Mel
Chief Editor : M. Azli
Editor : M. Azli
Proofreader : M. Azli
Graphic Designer : R. W. Chamie
Administration : Zue & N. A. Aryan
Sales & Marketing : N. H.

Published By
Penerbit
Universiti Malaysia Pahang Al-Sultan Abdullah
Lebu Persiaran Tun Khalil Yaakob,
26300 Gambang, Kuantan,
Pahang Darul Makmur.
Tel: 09-431 5034

Printing
PNC Printing
No.2, Tingkat Bawah, Taman Damai Indah,
Peramu, 26600, Pekan, Pahang Darul Makmur
Tel: 09-425 2010

Share | Like | Tag
Online Shop: <https://msha.ke/penerbitump>
Official Page (FB) : Penerbit UMPSA
Official IG : Penerbitumpsa

TABLE OF CONTENTS

TABLE OF CONTENTS	4
ACKNOWLEDGEMENT	8
FOREWORD	9
VICE CHANCELLOR'S NOTE	10
ABOUT UMPSA	11
UMPSA RANKINGS	12
INTRODUCTION	15
RESEARCH CLUSTER	16-255
CENTRE OF EXCELLENCE	256
CLUSTER 1 : SMART CITY	16
Smart Living	18
Smart & Circular Economy	23
Smart Environment	26
Smart People	34
Smart Government	40
Smart Mobility	44
Smart Digital Infrastructure	49
CLUSTER 2 : VEHICULAR TECHNOLOGY	58
Engines and Combustion	60
Electric Vehicles and Batteries	63
Autonomous Vehicles	65
Cooling and Lubrication	67
Vehicle Manufacturing	69
CLUSTER 3 : SUSTAINABLE ENERGY	73
Solar Energy	75
Hydropower Energy	80
Thermal Energy	82
Ocean and Wind Energy	85
Hydrogen Energy	87
Biofuel	91
Energy Optimisation & Policy	94
Others	97

CLUSTER 4 : MATERIAL SCIENCES	98
Biomass Valorisation	100
Advanced Materials	104
Material for Energy Application	115
Smart Material	118
Material Discovery & Informatics	120
Others	122
 CLUSTER 5 : INDUSTRIAL BIOTECHNOLOGY	 123
Molecular Biology	125
Bioprocess	127
Microbiology	129
Plant and Mammalian	131
Enzymology & Proteomic	133
Others	134
 CLUSTER 6 : FINE AND SPECIALTY CHEMICAL	 135
Chemical Synthesis	137
Fragrances and Perfumery	140
Bio - Pharmaceutical	142
Bio - Agrochemical	145
Textile and Colour	147

CLUSTER 7 : MANAGEMENT AND SOCIAL SCIENCE	148
Supply Chain, Logistics, Digitalisation & Operations Management	150
Sustainability & Environmental Management	153
Management Sciences	155
Entrepreneurship	157
Education, Gender & Knowledge Management	158
Accounting & Financial Management	162
Civilisation Studies, Islamic Studies, & Historical Studies	163
Social Sciences	169
Language Studies & Applied Linguistics	174
 CLUSTER 8 : AGRICULTURE AND FOOD SECURITY	 181
System Development	183
Tissue Culture	185
Fertiliser Development	186
Microbial and Molecular Analysis	188
Waste Management	189
Market Analysis	190
Downstream Product	191
Medicinal Plant Analysis	193
Food Nutrition and Functional Food	196
Food Technology	198
Food Biochemistry and Biotechnology	199
Immunology/ Disease Control	200
Halal Science and Management	201
Data Caching	205
Food Packaging	206
Animal Feed	207

CLUSTER 9 : RARE EARTH	207
Up – stream and Mid – Stream Sector: REE Mining Activities	209
Down – stream Sector: REE Application	211
Sustainability & Environmental Conservation	214
 CLUSTER 10 : PETROCHEMICAL	 216
Reaction Intensification And Sustainable Energy	218
Proses System Engineering	220
Circular Economy And Life Cycle Analysis	222
Environment and Water	223
Advanced Structural Integrity and Vibration	225
Structural Performance Material Engineering	227
Instrumentation And Control Engineering	230
Data Analytics	233
 CLUSTER 11 : CONSTRUCTION	 235
Quality and Safety	237
Sustainable Built Environment	239
Construction Productivity	249
Infrastructure Maintenance	251
Internationalizations and Competitiveness	253
Good Governance and Adoption of Best Practices	254

ACKNOWLEDGEMENT

“Heartfelt gratitude to all the contributors who made this book possible.”

All praise is due to Allah (SWT), the Lord of the universe, who has made the completion of this book possible. We also wish to express our gratitude to everyone who has contributed their time and effort towards the publication of this book.

Dato' Seri Abdul Razak Jaafar | Professor Dato' Ts. Dr. Yuserrie Zainuddin | Professor Ts. Dr. Aida Mustapha | Professor ChM Dr. Mohd Hasbi Ab Rahim | Professor ChM Dr. Chong Kwok Feng | Associate Professor Dr. Ahmad Tarmizi Haron | Professor Ts. Dr. Kamal Zuhairi Zamli | Associate Professor Dr. Aizi Nor Mazila Ramli | Associate Professor Dr. Abdul Rahimi Abdul Rahman | Associate Professor Dr. Norhayati Rosli | Associate Professor Ts. Dr. Rohayu Jusoh | Associate Professor Ts. Dr. Muzamir Hasan | Professor Ir. Dr. Chin Sim Yee | Associate Professor Dr. Hafizoah Kassim | Professor Dr. Yudi Fernando | Professor Dr. Saiful Nizam Tajuddin | Associate Professor Dr. Tan Suat Hian | Ir. Dr. Zamri Mohamed | Associate Professor Ts Dr Mohd Yusri Mohd Yunus | Sr. Ts. Dr. Ngahzaifa Ab Ghani | Associate Professor Dr. Noryanti Muhammad | Dr. Nazikussabah Zaharudin | ChM. Dr. Izan Izwan Misnon | Dr. Nasrul Hadi Johari | Dr. Nazira Mahmud | Dr. Jamaludin Salim | Ts. Dr. Ahmad Rosli Abdul Manaf | Ts. Dr. Azizan Ramli | Associate Professor Dr. Azrina Abd Aziz | Associate Professor Dr. Puteri Fadzline Muhamad Tamyaz | Associate Professor Ir. Dr. Mohd Hafizi Zohari | Dr. Mahfuzah Mustafa | Associate Professor Dr. Mahyuddin Ismail | Dr. Mazni Ismail | Associate Professor Ir. Dr. Muhamad Zahim Sujod | Dr. Nurul Ain Ismail | Roslan Awang Abdul Rahman | Rosilavi Mat Jusoh | Laili Zulkepli | Emma Melati Burhanuddin | Ahmad Fadly Ibrahim | Dina Diyana Rastam Tan | Hardyana Mohd Saman | Idayu Mat Ali | Mohd Shahrin Ezzat Sumadi | Nurul Haida Idrus | Zaffaruddin Hamzah | Muhammad Azli Shukri | Athirah Ruzaini | Rohaniah Abdul Wahab | Noor Aftalina Omar

FOREWORD

This book was published as a reference to other researchers, funders, stakeholders, industries, research agencies as well as communities who are looking for opportunities for strategic collaborations with UMPSA experts. It comprises a comprehensive pool of talent and expertise in all UMPSA niche areas, and we are proud to share our expertise and knowledge with the surrounding community by bringing ideas to impactful knowledge or tools.

We are here to create the next generation of knowledge, who will then apply the technology to society's in enhancing economic development and promote a rich quality life.

DATO' SERI ABDUL RAZAK BIN JAAFAR
Chairman of the University Board of Directors
Universiti Malaysia Pahang Al-Sultan Abdullah



VICE-CHANCELLOR NOTE

UMPSA proudly houses a diverse group of experts across various fields of engineering and technology, including advanced Technical and Vocational Education and Training (TVET). With 11 distinct clusters of knowledge, we stand ready to collaborate with the community and industry to elevate technology, processes, and tools, driving towards a more impactful future.

Embodying our motto, "**Technology for Community**," our experts are deeply committed in applying their knowledge for the greater good. This booklet is designed to serve as a strategic resource, showcasing the breadth of expertise within our university that can be harnessed for future collaboration

We envision this as a catalyst for shared knowledge and technological advancement, bridging the gap between UMPSA and the wider community.

We extend our sincere gratitude to the team whose efforts have made this booklet possible, allowing us to share these invaluable resources with all.

PROFESSOR Ts. Dr. AIDA MUSTAPHA
Acting Vice-Chancellor



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.

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 and latest to Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) in April 2023.

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

<https://www.umpsa.edu.my/en/ranking>

INTERNATIONAL



QS Stars University Ratings Excellent Award

Teaching	Employability
Internationalisation	Research
Facilities	Engineering - Mechanical
Innovation	



2025 Quacquarelli Symonds (QS) World University Rankings

Ranked #741-750 in World
Ranked #9 in Malaysia (Public Universities)
Ranked #1 in MTUN



2025 Quacquarelli Symonds (QS) Asia University Rankings

Ranked #159 in Asia
Ranked #39 in South Eastern Asia
Ranked #16 in Malaysia
Ranked #1 in MTUN
published on : 6 November 2024



2024 QS World University Rankings by Subject

Engineering & Technology: Ranked #451-500 in World Ranked #9 in Malaysia	Material Science: Ranked #351-400 in World Ranked #7 in Malaysia
Engineering – Chemical: Ranked #201-250 in World Ranked #7 in Malaysia	Engineering – Electrical & Electronic: Ranked #351-400 in World Ranked #9 in Malaysia
Engineering – Mechanical, Aeronautical & Manufacturing: Ranked #301-350 in World Ranked #7 in Malaysia	Computer Sciences & Information Systems: Ranked #651-680 in World Ranked #14 in Malaysia
Chemistry: Ranked #451-500 in World Ranked #7 in Malaysia	

UMPSA RANGKINGS

<https://www.umpsa.edu.my/en/ranking>

INTERNATIONAL



**World
University
Rankings**

2025 Times Higher Education (THE) World University Rankings

Ranked #601-800 in World

Ranked #8 in Malaysia

Ranked #1 in MTUN



**World University
Rankings
Asia**

2024 Times Higher Education (THE) World University Rankings Asia

Ranked #166 in Asia

Ranked #8 in Malaysia

Ranked #1 in MTUN



**World University
Rankings
Young**

2024 Times Higher Education (THE) Young World University Rankings

Ranked #146 in World

Ranked #3 in Malaysia

Ranked #1 in MTUN



**World University
Rankings
by Subject**

2024 Times Higher Education (THE) World University Rankings by Subject

Business and Economics:

Ranked #301-400

Ranked #6 in Malaysia

Computer Science:

Ranked #501-600

Ranked #5 in Malaysia

Physical Sciences:

Ranked #501-600

Ranked #5 in Malaysia

Engineering:

Ranked #601-800

Ranked #7 in Malaysia



2021/2022 US News and World Report Best Global University Rankings

Ranked #992 in world

Ranked #269 in Asia

Ranked #8 in Malaysia

Ranked #1 in MTUN

UMPSA RANGKINGS

NATIONAL



Malaysia Research Assessment (MyRA)

Note:

- UMPA has maintained its 5-stars since 2017 until to date.



2022 MyMohes Ratings

Note:

- UMPA has maintained its 5-stars since 2017 until to date.



VERY COMPETITIVE

Note:

- For the evaluation, Higher Education Institutions (HEI) achievements are categorized into 2 statuses, namely;Competitive and Viable.
- Competitive: Excel and meet the evaluation criteria.
- Good and meet the minimum evaluation criteria.

<https://www.umpsa.edu.my/en/ranking>

SUSTAINABILITY



2023 UI Green Metric World University Ranking

Ranked #68 in World
Ranked #1 in MTUN
Ranked #4 in Malaysia



<https://mygreen.umpsa.edu.my/>

2024 Times Higher Education (THE) Impact Rankings

Ranked #201-300 in World
Ranked #7 in Malaysia (#6 Public Universities)
Ranked #1 in MTUNquality Education, #65
SDG1: No Poverty, #5
SDG4: Quality Education, #65
SDG6: Clean Water & Sanitation, #37
SDG7: Affordable Clean Energy, #49
SDG9: Industry, Innovation and Infrastructure, #301-400
SDG12: Responsible Consumption & Production, #89
SDG17: Partnership for the Goals, #89



2024 QS World University Rankings Sustainability

Ranked #565 in World
Ranked #12 in Malaysia
Ranked #1 in MTUN



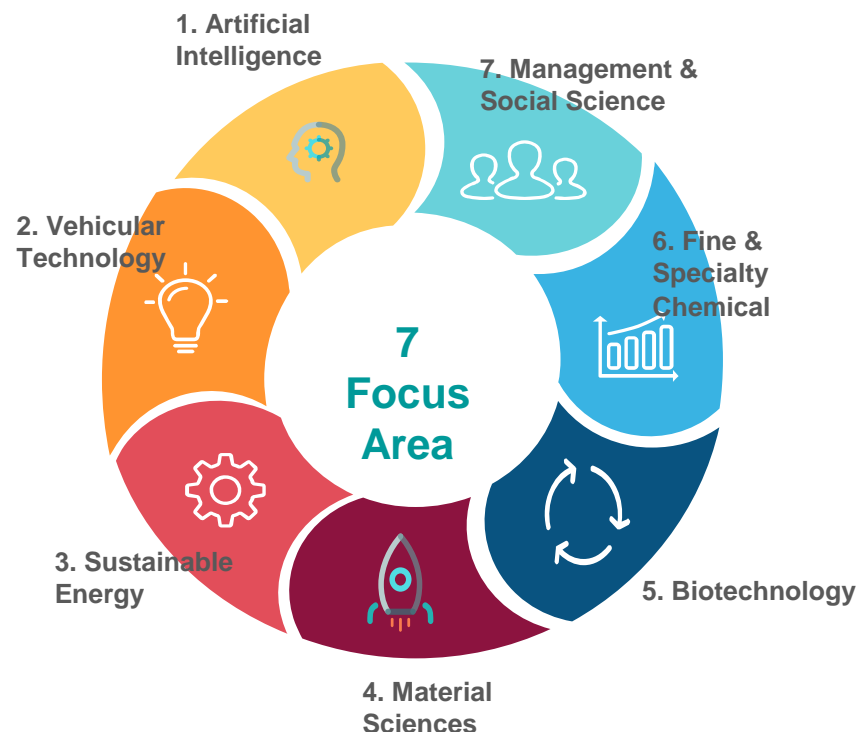
2022 SEDA Certificate

3 Diamond Rating (out of 5 Diamond)

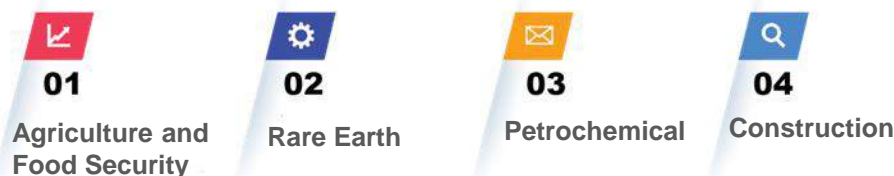
INTRODUCTION

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





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

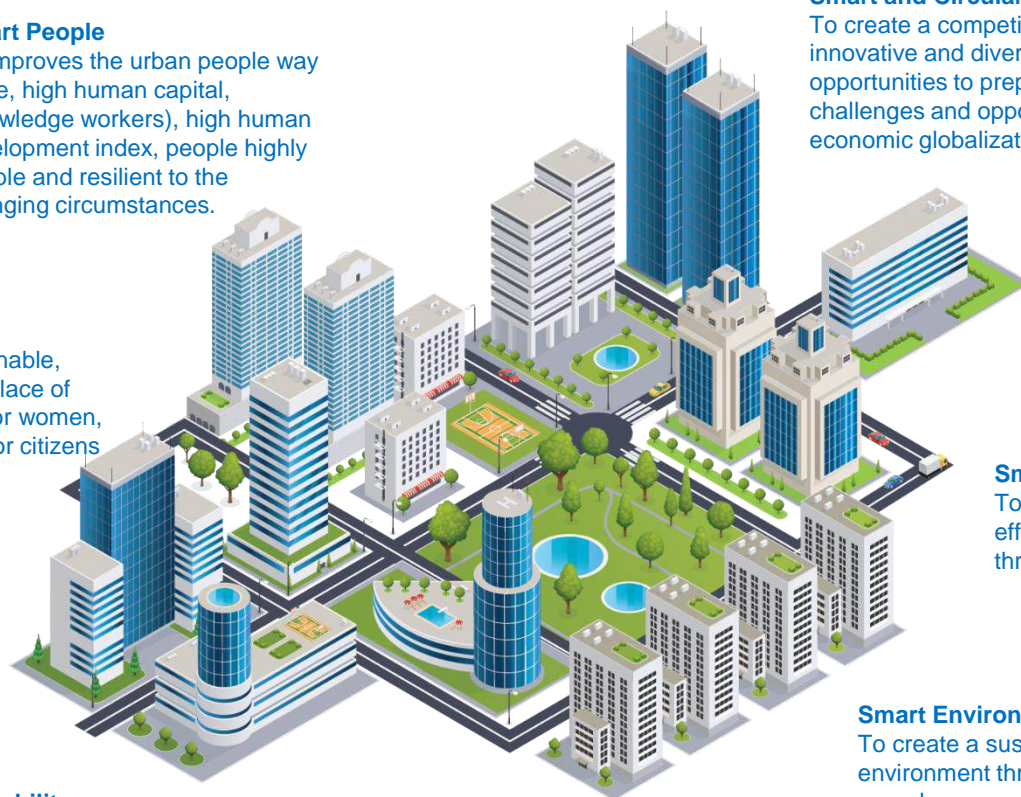
To create a competitiveness, innovative and diverse economic opportunities to prepared for the challenges and opportunities of economic globalization

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.





Professor Dr. Jose Rajan

rjose@umpsa.edu.my

016-9620388

Development of New Smart Window Materials

UMPSA World's Top 2% Scientist

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Dr. Mohamed Ariff bin Ameen

mohamedariff@umpsa.edu.my

012-2032400

Prototype Low-Cost IoT Enabled Light Switches with

Smart Device Connectivity

Faculty of Computing

My Profile



Associate Professor Dr. Yuhani binti Yusof

yuhani@umpsa.edu.my

012-2760706

Formulation of Medicinal Cupping Point

Algorithm for Diabetic Patient Via Adjacency

Matrix Approach

Centre for Mathematical Sciences

My Profile



Associate Professor Dr. Norhayati binti Rosli

norhayati@umpsa.edu.my

019-9544531

Pandemic Preparedness Simulation Tool

Centre for Mathematical Sciences

My Profile





Ts. Dr. Norazaliza binti Mohd Jamil

norazaliza@umpsa.edu.my

013-7407016

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

Centre for Mathematical Sciences

My Profile



Dr. Nor Azuana binti Ramli

azuana@umpsa.edu.my

017-3595498

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

Centre for Mathematical Sciences

My Profile



Dr. Razali bin Muda

razali@umpsa.edu.my

012-6643801

Investigation on the Non-Invasive Detection of Lung Cancer Biomarkers Using a Portable fibre Optics Surface Plasmon Resonance Biosensor

Faculty of Electrical & Electronics Engineering Technology

My Profile



Associate Professor Dr. Noryanti binti Muhammad

noryanti@umpsa.edu.my

011-37701334

Nonparametric Prediction Inference for Diagnostic Accuracy

Centre for Mathematical Sciences

My Profile





Ts. Dr. Syafiq Fauzi bin Kamarulzaman

syafiq29@umpsa.edu.my

019-2669605

A Smart Bin System for FIM Learning Factory

Faculty of Computing

My Profile



Ts. Dr. Mohd Riduwan bin Ghazali

riduwan@umpsa.edu.my

013-2015432

Development of Cupping Machine with Automatic Suction Control

Faculty of Electrical and Electronics Engineering Technology

My Profile



Ts. Dr. Wan Isnii Sofiah binti Wan Din

sofiah@umpsa.edu.my

019-2262602

Energy Consumption in Wireless Sensor Network

Faculty of Computing

My Profile



Dr. Siti Zanariah binti Satari

zanariah@umpsa.edu.my

019-7699240

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

Centre for Mathematical Sciences

My Profile





Dr. Khairul Anuar bin Shahid

khairulanuars@umpsa.edu.my

016-232 6302

Temperature assessment of extensive green roof
under tropical climatic condition

Faculty of Civil Engineering Technology

My Profile



Associate Professor Dr. Mohd Anwar bin Zawawi

mohdanwar@umpsa.edu.my

017-6401980

Modeling of Optical Fiber Sensor to Elucidate Foot Pressure
Distribution Monitoring

Faculty of Electrical & Electronics Engineering Technology

My Profile



Dr. Nur Huda binti Ramlan

hudaramlan@umpsa.edu.my

014-7399866

Knowledge Transfer on Smart Farming Management Towards
Sustainable Agriculture Among Mushroom Grower
Community

Faculty of Electrical & Electronics Engineering Technology

My Profile



Associate Profesor Ir. Dr. Nurul Hazlina binti Noordin

hazlina@umpsa.edu.my

018-4633914

IoT Based Smart Farming

Faculty of Electrical & Electronics Engineering Technology

My Profile





Abbas Saliimi bin Lokman

abbas@umpsa.edu.my

014-5140401

IR4.0 Factory Automation-Artificial Intelligence Predictive Maintenance

Faculty of Computing

My Profile



Associate Professor Dr. Fazeeda Binti Mohamad

fazeedamohamad@umpsa.edu.my

012-9661942

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

Faculty of Industrial Management

My Profile





Professor Dr. Yudi Fernando

yudi@umpsa.edu.my

019-5718008

Formulating Green Economy Framework for Sustainability Development Goals (SDGs) Using Machine Learning Analytics
UMPSA World's Top 2% Scientist

Faculty of Industrial Management

My Profile



Associate Professor Ts. Dr. Awanis binti Romli

awanis@umpsa.edu.my

010-4388036

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

Faculty of Computing

My Profile



Dr. Siti Roslindar binti Yaziz

roslindar@umpsa.edu.my

013-9231487

Development of Interactive Software for Gold Price Forecasting

Centre for Mathematical Sciences

My Profile



Associate Professor Dr. Sudhakar Kumarasamy

sudhakar@umpsa.edu.my

012-6813531

Techno-Economic Study of Agrivoltaic Systems for The Development of The Malaysian Green Economy
UMPSA World's Top 2% Scientist

Faculty of Mechanical and Automotive Engineering Technology

My Profile





Ts. Dr. Nur Farhayu binti Ariffin

farhayu@umpssa.edu.my

013-7003769

Investigation of Abandoned Building in Malaysia - Cause and Effect to the Social, Economy and Safety

Faculty of Civil Engineering Technology

My Profile



Associate Professor Dr. Muhammad Ashraf bin Fauri @ Fauzi

ashrafauzi@umpssa.edu.my

013-3005169

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

Faculty of Industrial Management

My Profile



Dr. Wan Nur Syahidah binti Wan Yusoff

wnsyahidah@umpssa.edu.my

013-7011857

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

Centre for Mathematical Sciences

My Profile



Dr. Kartina binti Johan @ Rahmat

kartina@umpssa.edu.my

012-6813531

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

Faculty of Manufacturing and Mechatronic Engineering Technology

My Profile





Ir. Ts. Dr. Mohd Ikhwan bin Muhmmad Ridzuan

ikhwanr@umpsa.edu.my

019-3185024

A Formulation of Hybrid Monte-Carlo Simulation and Grey Wolf Optimization for Optimal Distributed Generation Placement and Network Reconfiguration in Future Smart Grid Distribution Networks

Faculty of Electrical and Electronics Engineering Technology

My Profile



Associate Professor Dr. Norhayati binti Rosli

norhayati@umpsa.edu.my

019-9544531

Risk Based Inspection GUI

Centre for Mathematical Sciences

My Profile



Professor Dr. Yudi Fernando

yudi@umpsa.edu.my

019-5718008

2relogcarchain Using Blockchain Technology for Carbon Footprint Tracking and Monitoring

UMPSA World's Top 2% Scientist

Faculty of Industrial Management

My Profile





Professor Ts. Dr. Kamal Zuhairi bin Zamli

kamalz@umpsa.edu.my

013-9326049

Optimisation Using Artificial Bee Colony Algorithms

UMPSA World's Top 2% Scientist

Faculty of Computing

My Profile



Professor Ts. Dr. Mazlina binti Abdul Majid

mazlina@umpsa.edu.my

016-9455363

Simulation Model for Safety Crowd Evacuation of Fire
Emergency Scenario Using Agent Based Simulation and
Social Force Modelling

Faculty of Computing

My Profile



Associate Professor Dr. Roslinazairimah binti Zakaria

roslinazairimah@umpsa.edu.my

019-7780446

Spatial and Temporal Analysis of Rainfall Amounts Using
Sum of Correlated Gamma Model and Poisson- Gamma
Model

Centre for Mathematical Sciences

My Profile



Dr. Mohd Khairul Bazli bin Mohd Aziz

khairulbazli@umpsa.edu.my

013-9848497

Optimal Rain Gauge Network in Pahang Using Particle
Swarm Optimization

Centre for Mathematical Sciences

My Profile





Ts. Dr. Junaida binti Sulaiman

junaida@umpsa.edu.my

012-7413071

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

Faculty of Computing

My Profile



Sr. Ts. Dr. Ngahzaifa binti Ab Ghani

zaifa@umpsa.edu.my

019-6857285

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

Faculty of Computing

My Profile



Ts. Dr. Mohammad Fadhil bin Abas

mfadhil@umpsa.edu.my

019-3430875

IoT Based Water Quality Prediction System

Faculty of Electrical and Electronics Engineering Technology

My Profile



Dr. Norhafidzah binti Mohd Saad

norhafidzahsa@umpsa.edu.my

014-8456063

Energy Saving Air-conditioning Control System

Faculty of Electrical and Electronics Engineering Technology

My Profile





Associate Professor Ts. Dr. Roshahliza binti M Ramli
 roshahliza@umpsa.edu.my
 012-2492703
 Smart Farming System
Faculty of Electrical and Electronics Engineering Technology

My Profile



Ts. Dr. Mohd Shawal bin Jadin
 mohdshawal@umpsa.edu.my
 014-8042693
 Study on Potential Of Solar Energy Utilisation at UMP for
 Reducing the Electricity Consumption
Faculty of Electrical and Electronics Engineering Technology

My Profile



Dr. Mohd Syakirin bin Ramli
 syakirin@umpsa.edu.my
 019-9122085
 System Identification for Temperature Control of a Liquid Level
 System
Faculty of Electrical and Electronics Engineering Technology

My Profile



Dr. Ahmad Johari bin Mohamad
 johari@umpsa.edu.my
 011-10556127
 Real-time Prediction for Sungai Isap Residence Using Artificial
 Intelligence Techniques
Faculty of Electrical and Electronics Engineering Technology

My Profile





Dr. Nor Rul Hasma binti Abdullah

hasma@umpsa.edu.my

019-9895368

Microcontroller-based Energy Saving Control for Air Conditioning System Using Artificial Intelligence

Faculty of Electrical and Electronics Engineering Technology

My Profile



Ts. Mohd Najib bin Razali

najibrazali@umpsa.edu.my

012-2530738

Bio-Coagulant and Smart System for Sustainable Water Treatment

Faculty of Chemical and Process Engineering Technology

My Profile



Professor Ir. Ts. Dr. Mahendran a/I Samykano

mahendran@umpsa.edu.my

016-6817799

Nanoenhanced Phase Change Materials for smart energy storage and management in buildings

UMPSA World's Top 2% Scientist

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Professor Ir. Ts. Dr. Kumaran a/I Kadirgama

kumaran@umpsa.edu.my

012-6325043

Development of a Design Evaluation System Software for Home Appliances Remanufacturing

UMPSA World's Top 2% Scientist

Faculty of Mechanical and Automotive Engineering Technology

My Profile





Mejar Dr. Imaduddin bin Abidin
imaduddin@umpsa.edu.my
013-9284224
Pembangunan Insinerator Quran Pintar (IQP)
Faculty of Industrial Management

My Profile



Ts Siti Normaziah binti Ihsan
normaziah@umpsa.edu.my
012-5215995
A New Optimal Multi-Agent Pathfinding Algorithm for
Emergency Escape Route Simulation
Faculty of Computing

My Profile



Gs. Dr. Syarifuddin bin Misbari
syarifuddinm@umpsa.edu.my
016-7551917
Smart IoT And Geospatial Approach for Water Quality
Monitoring System: Case Study In Galing River, Kuantan
Faculty of Civil Engineering Technology

My Profile



Dr. Khairul Anuar bin Shahid
khairulanuars@umpsa.edu.my
016-2326302
The potential of cooling effect in residential building using
palm oil clinker as drainage layer in green roof system
Faculty of Civil Engineering Technology

My Profile





Dr. Suliana binti Ab Ghani

suliana@umpsa.edu.my

019-7534645

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

Faculty of Electrical and Electronics Engineering Technology

My Profile



Associate Professor Ts. Dr. Hadi bin Manap

hadi@umpsa.edu.my

017-8190007

Development of a Methane Gas Sensing System Using DOAS Technique for Remote Detection And Monitoring.

Faculty of Electrical and Electronics Engineering Technology

My Profile



Ir. Dr. Bakri bin Hassan

bakri@umpsa.edu.my

012-9859400

Modelling of Hybrid Energy Storage In Microgrid Environment Under Unbalanced Voltage

Faculty of Electrical and Electronics Engineering Technology

My Profile



Ts. Dr. Mohd Shafie bin Bakar

shafie@umpsa.edu.my

019-9850502

Development of Training Kit DC-DC Converter for Power Electronics Field

Faculty of Electrical and Electronics Engineering Technology

My Profile





Associate Professor Ir. Ts. Dr. Normaniha binti Abd Ghani

normaniha@umpsa.edu.my

013-9842806

Formulation of New Multiobjective Exponential and Fitness Based Adaptive Sine-Cosine Algorithm for Improving Accuracy and Convergence Speed

Faculty of Electrical and Electronics Engineering Technology

My Profile



Dr. Syukran Hakim bin Norazman

syukran@umpsa.edu.my

013-9735139

Investigation of New Holographic Image Reconstruction Technique for Identifying Hazardous Micro-Particles in Power Transformer Oil

Faculty of Electrical and Electronics Engineering Technology

My Profile





Professor Ir. Ts. Dr. Kamarul Hawari bin Ghazali

kamarul@umpsa.edu.my

017-7712224

Crowd Movement Detection for Automated Surveillance
Camera System

Faculty of Electrical and Electronics Engineering Technology

My Profile



Associate Professor Ts. Dr. Hamzah bin Ahmad

hamzah@umpsa.edu.my

019-9306877

An Approach of Student Academic Identification and
Classification Using Artificial Intelligence

Faculty of Electrical and Electronics Engineering Technology

My Profile



Associate Professor Dr. Zuraina binti Ali

zuraina@umpsa.edu.my

012-9676507

Social Media Influencers (SMIS) and Consumers: An Analysis
of Psychological Well-Being and Community Dependability
Beliefs Concerning Media Hype

Centre for Modern language

My Profile



Associate Professor Ts. Dr. Adzhar bin Kamaludin

adzhar@umpsa.edu.my

013-9221584

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

Faculty of Computing

My Profile





Dr. Jamaludin bin Sallim

jamal@umpsa.edu.my

019-2209650

IoT Technology – Fisherman's Mobile Technology

Faculty of Computing

My Profile



Dr. Ruhil Amal binti Azmuiddin

ruhilamal@umpsa.edu.my

017-2242545

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

Centre for Modern Languages

My Profile



Ts. Aziman bin Abdullah

aziman@umpsa.edu.my

013-9844671

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

Faculty of Computing

My Profile



Associate Professor Ts. Dr. Suryanti binti Awang

suryanti@umpsa.edu.my

016-6663646

Descriptor for Face Pattern Recognition Based on Novel Methods

Faculty of Computing

My Profile





Mejar Dr. Imaduddin bin Abidin

imaduddin@umpsa.edu.my

013-9284224

Program Peningkatan Profesionalisme Guru-Guru Reka
Bentuk dan Teknologi (RBT) Negeri Pahang

Faculty of Industrial Management

My Profile



Ir. Ts. Dr Norizam bin Sulaiman norizam@umpsa.edu.my

012-4596552

Electroencephalogram (EEG) Interaction Mechanism to
Evaluate the Microsleep Detection

Faculty Electrical and Electronics Engineering Technology

My Profile



Dr. Muhammad Hilmi bin Jalil

muhammadhilmi@umpsa.edu.my

01135295101

Computational Modeling and Simulation of Spine Injuries in Fatal
Road Accidents

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Associate Professor Dr. Norhayati binti Rosli

norhayati@umpsa.edu.my

019-9544531

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

Centre for Mathematical Sciences

My Profile





Associate Professor Ts. Dr. Mohd Azrul Hisham bin Mohd Adib

azrul@umpsa.edu.my

019-9439287

Elucidate The Mechanism of Ergonomic Risk Factors and Impact of Musculoskeletal Symptoms on Cerebral Palsy Kids Patient Quality of Physio-Treadmill (PhyMILL) Treatment

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Ts. Dr. Nurul Shahida binti Mohd Shalahim

shahida@umpsa.edu.my

012-5100420

Development of Sit-to-Stand for Sedentary Workers

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Ts. Dr. Nasrul Hadi bin Johari

nhadi@umpsa.edu.my

011-51262835

Elucidation of The Restenosis Mechanism in Peripheral Arterial Disease Using Fluid-Structure Interaction Modeling

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Ts. Rosdi bin Daud

rosdidaud@umpsa.edu.my

012-9776525

Approximation of Femur and Tibia Measurement Using Artificial Neural Network Method For Malaysian Adult

Faculty of Mechanical and Automotive Engineering Technology

My Profile





Associate Professor Dr Hafizoah binti Kassim

hafizoah@umpsa.edu.my

019-3367005

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

Centre for Modern Language

My Profile



Associate Professor Dr Nik Aloesnita binti Nik Mohd Alwi

aloesnita@umpsa.edu.my

019-7509953

Examining the Effectiveness of Virtual Reality (VR) Job Interview Simulator to Reduce Anxiety

Centre for Modern Language

My Profile



Associate Professor Dr Noor Raha binti Mohd Radzuan

nraha@umpsa.edu.my

019-5766145

Assessment Practices and Challenges Among Language Lecturers in Implementing Blended Learning in Malaysian Universities

Centre for Modern Language

My Profile



Dr. Nor Yazi binti Khamis

nyazi@umpsa.edu.my

012-2039112

Digital Instructional Fluency: Exploring TVET ESL Practitioners' Sustainable Edutech Requirements for Competency Advancement

Centre for Modern Language

My Profile





Dr. Nur Aqilah binti Othman

nuraqilah@umpsa.edu.my

010-2102105

Formulation of Machine Learning Model to Classify Kinematics
Data of Human Daily Activities

Faculty of Electrical and Electronics Engineering Technology

My Profile





Professor Ir. Ts. Dr. Kamarul Hawari bin Ghazali

kamarul@umpsa.edu.my

017-7712224

Smart Night Vision System for Detecting Intruders in
Restricted Area Using Thermal Imaging

Faculty of Electrical and Electronics Engineering Technology

My Profile



Associate Professor Dr. Mohd Ridzuan bin Darun

mridzuand@umpsa.edu.my

016-6693267

Improving the Integrity of Halal Supply Chain Management
through Blockchain Technology

Faculty of Industrial Management

My Profile



Associate Professor Dr. Mohd Nizam bin Mohmad Kahar

mnizam@umpsa.edu.my

019-9891779

The Network Intrusion Detection System in Cloud Computing
Using Whale Optimisation Algorithm and Artificial Neural
Network

Faculty of Computing

My Profile



Ts. Dr. Lee Khai Loon

leekhailoon@umpsa.edu.my

012-4731081

Effectiveness of Monsoonsim Enterprise Resource
Planning (ERP) Business Simulation-Based Learning
In Malaysia Higher Education Institutions

Faculty of Industrial Management

My Profile





Professor Ts. Dr. Mazlina binti Abdul Majid

maz@umpsa.edu.my

0169455363

Investigation on Human Pedestrian Traffic Flow in Kuantan Airport Using Hybrid Discrete Event Simulation and Agent Based Simulation

Faculty of Computing

My Profile



Norasyikin binti Fadilah

norasyikin@ump.edu.my

017-7643235

Development of Wireless Embedded Video Processing System For Identification of Traffic Violation In Urban Area

Faculty of Electrical and Electronics Engineering Technology

My Profile



Ts. Dr. Muhammad Yusri bin Ismail

yusriismail@ump.edu.my

013-2752091

Collision Avoidance Mechanism Using Integrated Communication Architecture for Mitigating Traffic Accident

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Associate Professor Dr. Mohd Hasnun Arif bin Hassan

mhasnun@ump.edu.my

0197792105

Prediction of Road Traffic Accidents Using Machine Learning

Faculty of Mechanical and Automotive Engineering Technology

My Profile





Associate Professor Ts. Dr. Suryanti binti Awang

suryanti@umpsa.edu.my

016-6663646

Enhancement of Fingerprint Image Security Based on the Enhanced Watermarking Technique

Faculty of Computing

My Profile



Dr. Noraina Mazuin binti Sapuan

noraina@umpsa.edu.my

010-6550312

Developing a Woman's Retirement Financial Wellness Index Based on Capacity-Opportunity-Willingness-Biopsychosocial (COWB) Modelogic

Faculty of Industrial Management

My Profile



Ts. Dr. Mohd Izham bin Mohd Jaya

izhamjaya@umpsa.edu.my

017-4855112

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

Faculty of Computing

My Profile



Abbas Saliimi bin Lokman

abbas@umpsa.edu.my

014-5140401

Question Answering System : Chatbot

Faculty of Computing

My Profile





Associate Professor Dr. Lee Chia Kuang

chia@umpsa.edu.my

013-7023668

Developing an Integrated Industrialised Building System
(Ibs) Maturity Model: A Hybrid Model with Riggs's Omax

Faculty of Industrial Management

My Profile



Dr. Mohd Nadzeri bin Omar

nadzeri@umpsa.edu.my

010-2712511

Prediction of Road Traffic Accidents Using Machine Learning

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile





Professor Ir. Dr. Mohd Faizal bin Jamlos

faizaljamlos@umpsa.edu.my

012-7001248

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

Faculty of Electrical and Electronics Engineering Technology

My Profile



Professor Dr. Abdul Adam bin Abdullah

adam@umpsa.edu.my

019-4997020

Development of Smart Campus Autonomous Vehicle (SCAV)

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Associate Professor Ir. Ts. Dr. Devarajan a/I Ramasamy

deva@umpsa.edu.my

016-7580946

An Optimized-Decision-Model Exploiting Deep-Learning
Enabled Vulnerable Point Classification for Vehicular Health
Monitoring System

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Associate Professor Dr. Ahmad Nor Kasruddin bin Nasir

kasruddin@umpsa.edu.my

019-3691359

Advancement Research of the Inverted Pendulum Concept
Applying to the Robot as a Balancer

Faculty of Electrical and Electronics Engineering Technology

My Profile





Associate Professor Ir. Dr. Akhtar Razul bin Razali

akhtar@ump.edu.my

012-7467822

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

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Associate Professor Ts. Dr. Mohd Razali bin Daud

mrazali@ump.edu.my

01110776526

Intelligent Traffic Light Control for Emergency Vehicle Using
Vision Sensor

Faculty of Electrical and Electronics Engineering Technology

My Profile



Ir. Dr. Ayib Rosdi bin Zainun

ayib@ump.edu.my

019-9894421

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

Faculty of Electrical and Electronics Engineering Technology

My Profile



Ts. Dr. Mohammad Fadhil bin Abas

mfadhil@ump.edu.my

019-4246038

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

Faculty of Electrical and Electronics Engineering Technology

My Profile





Ir. Ts. Dr. Mohd Zamri bin Ibrahim

zamri@umpsa.edu.my

019-6701486

Intelligent Vehicle Monitoring System for Smart Campus

Faculty of Electrical and Electronics Engineering Technology

My Profile



Dr. Nor Izzati binti Jaini

ati@umpsa.edu.my

010-2393845

A Study on the Decision-Making Support in Scheduling and

Vehicle Routing Problems via Trade-off Ranking Method

Centre of Mathematical Sciences

My Profile



Ts. Dr. Mohd Riduwan bin Ghazali

riduwan@umpsa.edu.my

013-2015432

The Development of Digital Controller in Rotary Motion System

Faculty of Electrical and Electronics Engineering Technology

My Profile



Dr. Intan Suhana binti Mohd Razelan

intan@umpsa.edu.my

013-9927040

Smart Traffic System for Universiti Malaysia Pahang

Pekan Campus

Faculty of Civil Engineering Technology

My Profile





Dr. Ahmad Afif bin Mohd Faudzi

afif@umpsa.edu.my

011-11272859

Vision Based Intelligent Traffic Monitoring System

Faculty of Electrical and Electronics Engineering Technology

My Profile



Ts. Muhammad Ikram bin Mohd Rashid

mikram@umpsa.edu.my

019-7978595

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

Faculty of Electrical and Electronics Engineering Technology

My Profile



Omar bin Aliman

omaraliman@umpsa.edu.my

019-3825246

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

Faculty of Electrical and Electronics Engineering Technology

My Profile





Associate Professor Ts. Dr. Mohd Ashraf bin Ahmad

mashraf@umpsa.edu.my

010-4117954

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

UMPSA World's Top 2% Scientist

Faculty of Electrical and Electronics Engineering Technology

My Profile



Associate Professor Dr. Mohamed Ariff bin Ameen

mohamedariff@umpsa.edu.my

012-2032400

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

Faculty of Computing

My Profile



Associate Professor Ir. Dr. Hj. Fadhlur Rahman bin Mohd Romlay

fadhlur@umpsa.edu.my

012-6951441

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Associate Professor Ts. Dr. Adzhar bin Kamaludin

adzhar@umpsa.edu.my

013-9221584

Investigation a Genetic Algorithm Based Strategy for Sequence Covering Array Construction

Faculty of Computing

My Profile





Associate Professor Ts. Dr. Mohd Razali bin Daud

mrazali@umpsa.edu.my

011-10776526

Intelligent Vision System for Identification of Massive and Cluttered Parts

Faculty of Electrical and Electronics Engineering Technology

My Profile



Associate Professor Ir. Dr Addie Irawan bin Hashim

addieirawan@umpsa.edu.my

019-9785276

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

Faculty of Electrical and Electronics Engineering Technology

My Profile



Professor Ts. Dr. Hamdan bin Daniyal

hamdan@umpsa.edu.my

019-9854052

Adaptive Controller of Smart Micro Grid in Intentional Islanding Mode

Faculty of Electrical and Electronics Engineering Technology

My Profile



Associate Professor Dr. Abu Zaharin bin Ahmad

zaharin@umpsa.edu.my

019-4241881

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

Faculty of Electrical and Electronics Engineering Technology

My Profile





Associate Professor Dr. Mohd Sham bin Mohamad

mohdsham@umpssa.edu.my

019-9892748

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

Centre for Mathematical Sciences

My Profile



Ts. Dr. Azlyna binti Senawi

azlyna@umpssa.edu.my

018-6652058

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

Centre for Mathematical Sciences

My Profile



Ts. Dr. Syahrulanuar bin Ngah

syahrulanuar@umpssa.edu.my

013-9809619

Implementation Artificial Network in Field Programmable Gate Array (FPGA)

Faculty of Computing

My Profile



Dr. Abdul Nasir bin Abd. Ghafar

abdnasir@umpssa.edu.my

018-3709949

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

Faculty of Electrical and Electronics Engineering Technology

My Profile





Ts. Dr. Ngui Wai Keng

wkngui@umpsa.edu.my

012-2852489

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

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Ts. Dr. Ahmad Shahrizan bin Abdul Ghani

shahrizan@umpsa.edu.my

019-6339803

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

UMPSA World's Top 2% Scientist

**Faculty of Manufacturing and Mechatronic Engineering
Technology**

My Profile



Ts. Dr. Saifudin bin Razali

saifudin@umpsa.edu.my

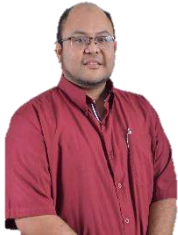
019-9562530

Development Of A Student Attendance Using Vicinity RFID
System

Faculty of Electrical and Electronics Engineering Technology

My Profile





Associate Professor Ts. Dr. Mohd Azrul Hisham bin Mohd Adib
azrul@umpsa.edu.my
019-9439287
Non- Invasive Preemies Car Seat (PreeCASE) Monitoring Device
For Implementation in Automotive Healthcare Industry
Faculty of Mechanical and Automotive Engineering Technology

My Profile



Dr. Sahimel Azwal bin Sulaiman
sahimel@umpsa.edu.my
013-6706237
RSA Digital Signature Authentication and Verification Using
Cryptographic Keys Generator Based on the Compatible
Actions of Cyclic P-groups
Centre for Mathematical Sciences

My Profile



Dr. Mahfuzah binti Mustafa
mahfuzah@umpsa.edu.my
013-3614772
Handwash Screening Vision System
Faculty of Electrical and Electronics Engineering Technology

My Profile



Dr. Ahmad Fakhri bin Ab. Nasir
afakhri@umpsa.edu.my
019-9857871
Modelling of Inter-cell Radio Interference and Thermal Noise
Floor in 5G Mobile Networks Using Artificial Intelligence
Faculty of Computing

My Profile





Ts. Dr. Ahmad Firdaus bin Zainal Abidin

firdausza@umpsa.edu.my

013-4771489

Anomaly-Based Malware Prediction Model with Optimised Static Features

Faculty of Computing

My Profile



Ts. Dr. Abdul Sahli bin Fakharudin

sahli@umpsa.edu.my

019-3251504

Bluetooth User Driven M-Advertising Using Pull-Based Approach

Faculty of Computing

My Profile



Omar bin Aliman

omaraliman@umpsa.edu.my

019-3825246

Optimal Sizing of Distributed Generation (Dg) in Distribution Networks

Faculty of Electrical and Electronics Engineering Technology

My Profile



Mohd Hisyam bin Mohd Ariff

hisyam@umpsa.edu.my

017-2324232

Development of Array Antenna for UHF RFID Reader

Faculty of Electrical and Electronics Engineering Technology

My Profile





Rahiwan Nazar bin Romli

rahiwan@umpsa.edu.my

019-3319565

Malaysia Network Transit Route Advisor (Mantra)

Faculty of Computing

My Profile



Badaruddin bin Muhammad

badaruddin@umpsa.edu.my

019-9175116

Integrated Network Security System for Industry Security

**Faculty of Electrical and Electronics Engineering
Technology**

My Profile



Ts. Dr. Noorhuzaimi @ Karimah binti Mohd Noor

nhuzaimi@umpsa.edu.my

013-9844432

Intelligent Surveillance Via CCTV and Drones

Faculty of Computing

My Profile



Ts Dr. Kohbalan a/I Moorthy

kohbalan@umpsa.edu.my

016-9555101

Bone Fracture Recognition Using Deep Learning

Method on Plain Radiographs

Faculty of Computing

My Profile





Ts Dr Tuty Asmawaty binti Abdul Kadir

tuty@umpsa.edu.my

012-9558558

The Development of A Virtual Reality Training Application
For Routine Activity in Kaneka (Chemical Loading From
Truck To Tank)

Faculty of Computing

My Profile



Associate Professor Dr. Mohd Nizam bin Mohmad Kahar

mnizam@umpsa.edu.my

019-9891779

A Dynamic Step-counting Hill Climbing Algorithm for
Optimal Routing System

Faculty of Computing

My Profile



Ts. Dr. Omar bin Jamaludin

omar@umpsa.edu.my

012-9526381

Sustainable Assessment for Smart City Kuantan

Faculty of Civil Engineering Technology

My Profile



Dr. Aizat bin Alias

aizat@umpsa.edu.my

019-7625863

Formulations of cementitious materials composition
for 3D concrete print

Faculty of Civil Engineering Technology

My Profile





Dr. Airul Sharizli bin Abdullah

sharisli@umpsa.edu.my

013-3517123

Development of a Real Time Wearable System for Monitoring Sprint Running Performance

Faculty of Electrical and Electronics Engineering Technology

My Profile



Ts. Dr. Raja Mohd Taufika bin Raja Ismail

rajamohd@umpsa.edu.my

013-9761013

Formulation of Discrete Time Sliding Mode Control for Three Level Boost Converter

Faculty of Electrical and Electronics Engineering Technology

My Profile



Dr. Wan Nur Azhani binti W. Samsudin

nurazhani@umpsa.edu.my

013-3875331

Detection and Classification Algorithm to elucidate Zebrafish Larvae Behavior Using Image Processing

Faculty of Electrical and Electronics Engineering Technology

My Profile



Ts. Dr. Zainah binti Md Zain

zainah@umpsa.edu.my

013-9331700

Formulation of a New Stabilization Control for Second-Order Nonholonomic and Underactuated systems

Faculty of Electrical and Electronics Engineering Technology

My Profile



A photograph of a car inside an anechoic chamber. The walls, floor, and ceiling are covered with dark, pyramid-shaped acoustic absorbers. A blue metal frame is positioned over the car. Two technicians in maroon shirts are working on the car's engine; one is holding a clipboard. A third person, wearing a pink hijab and a maroon shirt, is seated at a desk on the right, operating a computer. The car's headlights are on. The text "VEHICULAR TECHNOLOGY" is overlaid at the bottom.

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





Professor Dr. Rizalman bin Mamat

rizalman@umpsa.edu.my

013 929 0709

Performance Combustion Characteristics And Emissions Of
Acetone-Ethanol-Gasoline Blends On Spark Ignition Engine

UMPSA World's Top 2% Scientist

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Professor Dr. Abdul Adam bin Abdullah

adam@umpsa.edu.my

019-4997020

Diesel Engines Combustion And Emissions

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Associate Professor Ts. Dr. Muhamad bin Mat Noor

muhamad@umpsa.edu.my

019-2232606

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

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Ts. Dr. Mohd Razali bin Hanipah

mohdrazali@umpsa.edu.my

019-2232606

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

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile





Ir. Ts. Dr. Muhammad Yusri bin Ismail

yusriismail@umpsa.edu.my

013-2752091

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Associate Professor Dr Ahmad Fitri bin Yusop

fitriy@umpsa.edu.my

013-7143525

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Dr. Mohd Adnin bin Hamidi

adnin@umpsa.edu.my

019-2232606

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Associate Professor Ir. Dr. Addie Irawan bin Hashim

addieirawan@umpsa.edu.my

019-9785276

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

Faculty of and Electronics Engineering Technology Electrical

My Profile





Ts. Dr. Mohd Fadzil bin Abdul Rahim

mfadzil@umpsa.edu.my

019-9878797

Investigation Of Model-based Calibration Technique On Ecu
Maps To Enhance Performance Of Spark Ignition Engine

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile





Professor Ts. Dr. Mohd Ruslim bin Mohamed

ruslim@umpsa.edu.my

011-10582610

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

Faculty of and Electronics Engineering Technology Electrical

My Profile



Associate Professor Ir. Dr Addie Irawan bin Hashim

addieirawan@umpsa.edu.my

019-9785276

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

Faculty of and Electronics Engineering Technology Electrical

My Profile



Associate Professor Ts. Dr. Hamzah bin Ahmad

hamzah@umpsa.edu.my

019-9306877

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

Faculty of and Electronics Engineering Technology Electrical

My Profile



Associate Professor Ir. Dr Akhtar Razul bin Razali

akhtar@umpsa.edu.my

012-7467822

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile





Ts. Dr. Mohamad Heerwan bin Peeie

mheerwan@umps.edu.my

010-9112045

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Associate Professor Dr. Sudhakar Kumarasamy

sudhakar@umps.edu.my

0197308925

Energy, Economics And Environmental Assessment Of BIPV+EV Charging In Tropical, Humid Continental And Maritime Temperate

UMPSA World's Top 2% Scientist

Faculty of Mechanical and Automotive Engineering Technology

My Profile





Professor Dr. Abdul Adam bin Abdullah

adam@umpsa.edu.my

019-4997020

Development Of Smart Campus Autonomous Vehicle (SCAV)

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Associate Professor Ts. Dr. Muhammad Aizzat bin Zakaria

maizzat@umpsa.edu.my

013-4533334

Drebar : An Automation Embedded System Module

Faculty of Manufacturing and Mechatronic Engineering Technology

My Profile



Ts. Dr. Mohamad Heerwan bin Peeie

mheerwan@umpsa.edu.my

010-9112045

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Dr. Muhammad Izhar bin Ishak

mizhar@umpsa.edu.my

09-4316178

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile





Ts. Dr. Sheikh Muhammad Hafiz Fahami bin Zainal

hafizfahami@umpsa.edu.my

0176101645

Development Of Estimation Feedback Torque With A Control Algorithm For Electric Vehicle In Steering By Wire System

Faculty of Manufacturing and Mechatronic Engineering Technology

My Profile



Dr. Ismail bin Mohd Khairuddin

ismailkhai@umpsa.edu.my

0197571498

The Formulation Of A Deep Learning Pipeline For The Maneuvering Perception Of An Amphibious Vehicle

Faculty of Manufacturing and Mechatronic Engineering Technology

My Profile





Professor Ir. Ts. Dr. Kumaran a/I Kadirgama

kumaran@umpsa.edu.my

012-6325043

Mxene Nanomaterial As An Alternative Material For Automotive Cooling System

UMPSA World's Top 2% Scientist

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Professor Dr. Wan Azmi bin Wan Hamzah

wanazmi@umpsa.edu.my

012-9478091

Development Of Hybrid Nanolubricants For Automotive Air Conditioning System

UMPSA World's Top 2% Scientist

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Professor Dr. Md Mustafizur Rahman

mustafizur@umpsa.edu.my

016-3775026

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

UMPSA World's Top 2% Scientist

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Professor Dr. Mohd Zuki bin Salleh

zuki@umpsa.edu.my

014-5200823

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

Centre for Mathematical Sciences

My Profile





Associate Professor Ir. Ts. Dr. Devarajan a/I Ramasamy

deva@umpsa.edu.my

016-7580946

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Associate Professor Dr. Abdul Rahman bin Mohd Kasim

rahmanmohd@umpsa.edu.my

013-7144642

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

Centre for Mathematical Sciences

My Profile



**Professor Ir. Dr. Ahmad Razlan bin Yusoff**

razlan@umpsa.edu.my

013-9339934

Sustainable Optimization In Machining Stainless Steel 316 Under
Dry Lubrication Using Uncoated Carbide Tools**Faculty of Manufacturing and Mechatronic Engineering
Technology**

My Profile

**Professor Ir. Dr. Haji Nik Mohd Zuki bin Nik Mohamed**

nikzuki@umpsa.edu.my

014-5200823

Die Design And Engineering, Manufacturing Optimization And
Ergonomics**Faculty of Manufacturing and Mechatronic Engineering
Technology**

My Profile

**Professor Dr. Mahadzir bin Ishak @ Muhammad**

mahadzir@umpsa.edu.my

09-4315347

New Technique Of Drilling/Cutting Of Polymer Composite
For Automotive Part By Low Power Laser**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile

**Associate Professor Dr. Mohd Fadzil Faisae b Ab. Rashid**

ffaisae@umpsa.edu.my

010-5718046

Modelling And Optimization Of Assembly Sequence
Planning For Automotive Subassembly**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile





Associate Professor Dr. Mohd Azmir bin Mohd Azhari

azmir@umpssa.edu.my

017-8122014

Machinability Study Of Structural Automotive Alloys Using
Abrasive Waterjet Machining Process

**Faculty of Manufacturing and Mechatronic Engineering
Technology**

My Profile



Associate Professor Ir. Dr Mohd Hafizi bin Zohari

hafizi@umpssa.edu.my

017-9860752

Dynamic Characteristic Investigation Of Multi-Axial Fiber
Bragg Grating Accelerometer For Automotive Application

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Associate Professor Ts. Dr. Mohd Shahrir bin Mohd Sani

mshahrir@umpssa.edu.my

017-9143591

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

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Associate Professor Ir. Ts. Dr. Faiz bin Mohd Turan

faizmt@umpssa.edu.my

012-3687238

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

**Faculty of Manufacturing and Mechatronic Engineering
Technology**

My Profile





Ir. Dr. Zamri bin Mohamed

zamrim@umpsa.edu.my

Vehicle Packaging And Architecture, Automotive Ergonomics, Automotive Vibration And Acoustics

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Associate Professor Ir. Ts. Dr. Wan Sharuzi bin Wan Harun

sharuzi@umpsa.edu.my

0199590039

Evaluation Of Mechanical Properties And Corrosion Behavior Of Wire Arc Additively Manufactured Ss316l For Exhaust Housing

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Ir. Dr. Mohd Firdaus bin Hassan

firdaus@umpsa.edu.my

0199243481

Enhancing Vibration Damping in Carbon Fiber-Reinforced Polymer Composites (CFRPC) Through Nano-Graphene Additives for Automotive Panels

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Dr. Aiman bin Mohd Halil

aimanmh@umpsa.edu.my

0137654326

Parametric Analysis On Laser Micro Bending Process Of Thin Sheet Metal For Small Components In The Automotive Industry

Faculty of Mechanical and Automotive Engineering Technology

My Profile





Muhammad Ammar bin Nik Mu'tasim

ammar@umpssa.edu.my

0197701612

Modeling And Optimization Of Hybrid Flow Shop Scheduling For
Automotive manufacturing

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile

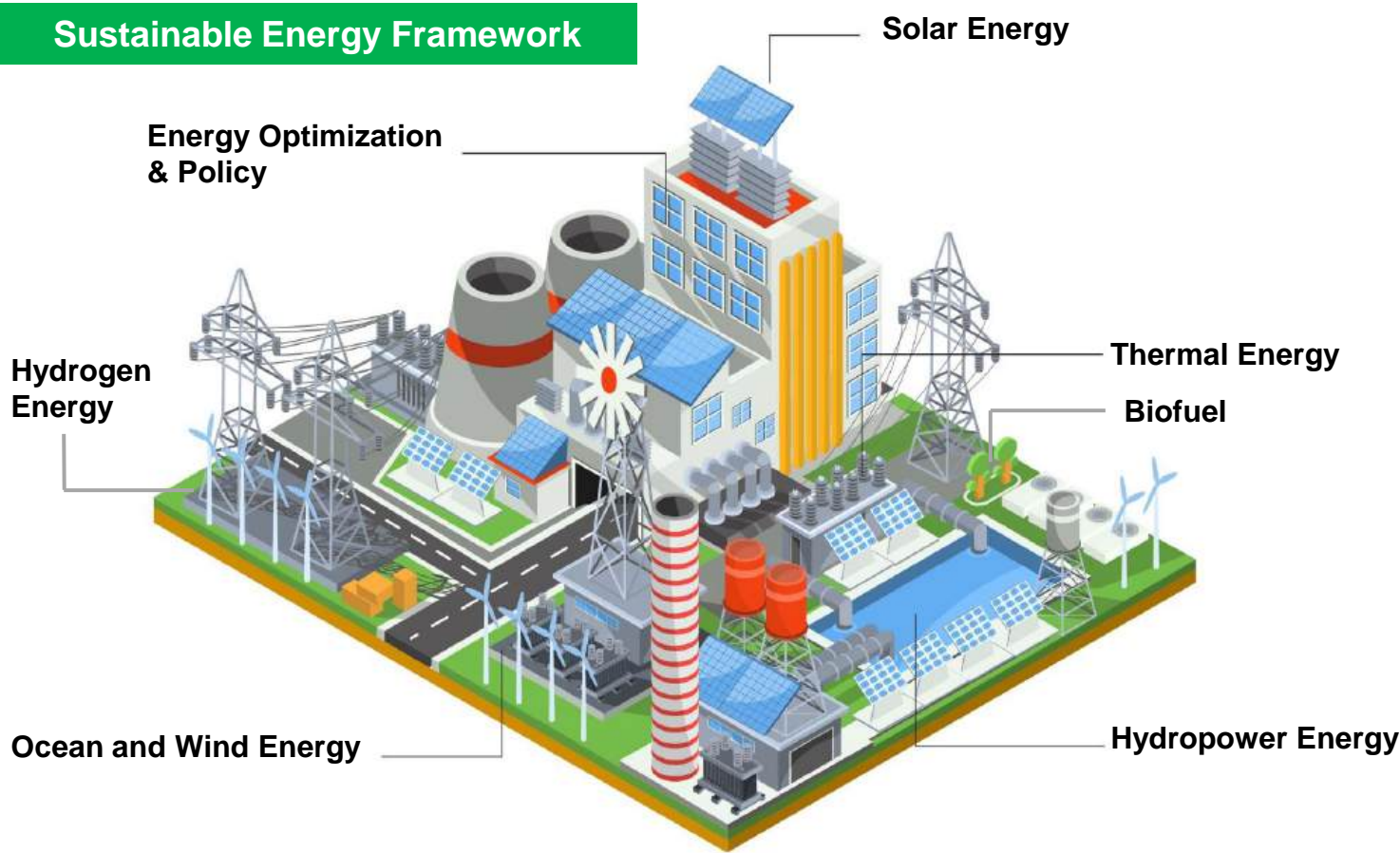




SUSTAINABLE ENERGY

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.



**Professor Dr. Jose Rajan**

rjose@umpsa.edu.my

016-9620388

Flexible Dye-Sensitized Solar Module

UMPSA World's Top 2% Scientist

Faculty of Industrial Sciences and Technology

My Profile

**Associate Professor Dr. Sudhakar Kumarasamy**

sudhakar@umpsa.edu.my

019-7308925

Performance Analysis of Floating and Submerged
Photovoltaic System

UMPSA World's Top 2% Scientist

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile

**Associate Professor Dr. Abu Zaharin bin Ahmad**

zaharin@umpsa.edu.my

019-4241881

Formulation Of Microgrid Energy Management Of Energy
Internet Using Fuzzy Based Model Predictive Control**Faculty of Electrical and Electronics Engineering
Technology**

My Profile

**Associate Professor Ts. Dr. Saifull Kamaluddin bin
Muzakir @ Lokman**

saifull@umpsa.edu.my

019-2763844

Theoretical And Experimental Investigations Of Lead
Chalcogenide Quantum Confined Structures For Solar
Cell Application Exceeding 10% Of Efficiency**Faculty of Industrial Sciences and Technology**

My Profile





Associate Professor Ir. Dr Muhamad Zahim bin Sujod

zahim@ump.edu.my

01110988048

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

Faculty of Electrical and Electronics Engineering Technology

My Profile



Dr. Norazila binti Jaalam

zila@umpsa.edu.my

012-6675421

Inverter Control Optimization Using Grey Wolf Optimizer (Gwo) To Reduce Overshoot Current In The Grid-Connected PV System

Faculty of Electrical and Electronics Engineering Technology

My Profile



Dr. Ahmad Syahiman bin Mohd Shah

asyahiman@umpsa.edu.my

018-9087676

Energy Management Of Storage Batteries Based On Forecasted PV Output For Small-Scale Standalone System

Faculty of Electrical and Electronics Engineering Technology

My Profile



Dr. Ahmad Fadzil bin Sharol

fadzils@umpsa.edu.my

011-27012032

Solar Thermal Engineering

Faculty of Mechanical and Automotive Engineering Technology

My Profile



**Ir. Dr. Ayib Rosdi bin Zainun**

ayib@umpssa.edu.my

0199894421

Development Of Perovskite Solar Cell (3rd Gen) As Power Source For Wireless Sensor Network (Wsn) In Automotive System

Faculty of Electrical and Electronics Engineering Technology

My Profile**Associate Professor Ir. Ts. Dr. Wan Sharuzi bin Wan Harun**

sharuzi@umpssa.edu.my

019-9590039

Solar Collector With Cotton-based Cnc And Advanced Graphene Hybrid Nano Fluids

Faculty of Mechanical and Automotive Engineering Technology

My Profile**Ir. Dr. Noor Zaihah binti Jamal**

zaihah@umpssa.edu.my

010-9324517

Evaluate the New technique in Reducing the Feasibility of Lightning Strikes At a Solar Power Plant

Faculty of Electrical and Electronics Engineering Technology

My Profile**Ts. Dr. Mohd Shawal bin Jadin**

mohdshawal@umpssa.edu.my

014-8042693

A New Local Feature Descriptor Based On Directional Structure Map For The Hotspot Detection In A Large-Scale Photovoltaic System

Faculty of Electrical and Electronics Engineering Technology

My Profile



Dr. Suliana binti Ab Ghani

suliana@umpsa.edu.my

019-7534645

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

Faculty of Electrical and Electronics Engineering Technology

My Profile



Professor Ir. Ts. Dr. Mahendran a/I Samykano

mahendran@umpsa.edu.my

016-6817799

Characterizing Of Mxene For Solar Application

UMPSA World's Top 2% Scientist

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Profesor Madya Dr. Nadzirah binti Mohd Mokhtar

nadzirah@umpsa.edu.my

012-6121045

Fabrication and Development of Integrated Solar-Driven Membrane Distillation System

Faculty Of Civil Engineering Technology

My Profile



**Associate professor Ir. Ts. Dr. Faiz bin Mohd Turan**

faizmt@umpsa.edu.my

0123687238

Systematic Sustainability Assessment (Ssa) Tool For
Hydroelectric Project**Faculty of Manufacturing and Mechatronic Engineering
Technology**

My Profile

**Associate Professor Dr. Mohd Herwan bin Sulaiman**

herwan@umpsa.edu.my

012-7324001

Optimization And Control Of Small Hydropower Plant
Operation**Faculty of Electrical and Electronics Engineering Technology**

My Profile

**Ts. Dr. Ummu Kulthum binti Jamaludin**

ummu85@umpsa.edu.my

094315381

Development And Optimization Of Screw Blade For
Sustainable Micro-Hydroelectric Power**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile

**Dr. Azizuddin bin Abd Aziz**

azizuddin@umpsa.edu.my

012-2293553

Pristine Blade Characteristics Concept Emphasizing
Mathematical Model Optimization Of Floating Undershot
Wheel For Picohydropower Generators**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile





Ts. Dr. Nurul Nadrah Aqilah binti Tukimat

nadrah@umpsa.edu.my

012-9815977

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

Faculty of Civil Engineering Technology

My Profile



Ts. Dr. Wan Ismail bin Ibrahim

wismail@umpsa.edu.my

019-9790523

Development Of Portable Pico – Hydrokinetic Energy
Harnessing For River Application

**Faculty of Electrical and Electronics Engineering
Technology**

My Profile



Idris bin Mat Sahat

idriss@umpsa.edu.my

0127288376

Optimization Of The Flow Characteristic In Various Array
Arrangements Of Multiple Picohydro Power Turbines

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Ts. Dr. Nasrul Hadi bin Johari

nhadi@umpsa.edu.my

01151262835

Archimedes Screw Turbine Optimization For
Hydrokinetic Harvesting

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



**Professor Ir. Ts. Dr. Mahendran a/I Samykan**

mahendran@umpsa.edu.my

0166817799

Nanoenhanced Phase Change Materials For Smart Energy
Storage And Management In Buildings
UMPSA World's Top 2% Scientist

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile

**Professor Ts. Dr. Sumaiya binti Zainal Abidin@ Murad**

sumaiya@umpsa.edu.my

019-5664177

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

Faculty of Chemical and Process Engineering Technology

My Profile

**Dr. Ahmad Fadzil bin Sharol**

fadzil@umpsa.edu.my

011 - 27012032

Thermal Energy Storage Materials

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile

**Professor Ir. Ts. Dr. Kumaran a/I Kadirgama**

Kumaran@umpsa.edu.my

012-6325043

Investigation Of Physio-thermal Properties Of Hybrid Graphene
Oxide And Nanofibrillated Cellulose For Automotive Application
UMPSA World's Top 2% Scientist

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



**Associate Professor Dr. Mohamad Firdaus bin Basrawi**

mfirdausb@umpsa.edu.my

019-9591819

Development Of Algorithm To Integrate Solar Farm With
Micro Gas Turbine Trigenation**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile

**Dr. Muhammad Khairul Anuar bin Mohamed**

mkhairulanuar@umpsa.edu.my

Mathematical Modelling Of Convective Flow Of Non-newtonian
Hybrid Nanofluid On A Bluff Body: Williamson Model**Centre for Mathematical Sciences**

My Profile

**Dr. Nor Atiqah binti Zolpakar**

noratiqahz@umpsa.edu.my

014-3813527

Effect Of The Geometry Design On The Pressure Drop For
Forced Convection Of Polydimethylsiloxane (Pdms)
Microchannel (Mc) Heat Sink**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile

**Azim bin Mohd Arshad**

azim@umpsa.edu.my

014-3813527

Elucidation Of Bubble Nucleation Properties In Nanofluids For
Flow Boiling Heat Transfer For Cooling Applications**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile





Dr. Zulhibri bin Ismail @ Mustofa

zulhibri@umpsa.edu.my

013-9303161

Mathematical Modelling on Heat and Mass Transfer of Thermal

Magnetohydrodynamics Newtonian and non-Newtonian Fluid:

An Analytical Approach

Centre for Mathematical Sciences

My Profile





Associate Professor Ts. Dr. Amir bin Abdul Razak

amirrazak@umpsa.edu.my

013-3461028

Modelling And Analysis Of Modular Wind Turbine System

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Dr. Suliana binti Ab Ghani

suliana@umpsa.edu.my

019-7534645

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

**Faculty of Electrical and Electronics Engineering
Technology**

My Profile



Dr. Azizuddin bin Abd Aziz

azizuddin@umpsa.edu.my

012-2293553

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

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Dr. Amir Izzani bin Mohamed

amirizzani@umpsa.edu.my

019-9812710

Modelling Of Electrical Field Behavior On Wind Turbine
Blade

**Faculty of Electrical and Electronics Engineering
Technology**

My Profile





Ts. Dr. Nurizzatul Atikha binti Rahmat

izzatulatikha@umpsa.edu.my

0167021405

Boundary Layer Wind Tunnel Experiments On Wake
Flow Generated Past A Row Of Quarter Elliptic-wedge
Spires With Rough Wall Surfaces

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



**Professor Dato' Ts. Dr. Zularisam bin Ab Wahid**

zularisam@umpsa.edu.my

012-7575476

A Novel Approach For The Biohydrogen Production From Palm Oil Mill Effluent And Subsequent Treatment, Using Sequential Dark And Photo Fermentation
UMPSA World's Top 2% Scientist

Faculty of Civil Engineering Technology

My Profile

**Professor Ts. Dr. Md. Mustafizur Rahman**

mustafizur@umpsa.edu.my

016-3775026

Development Of Heat Transfer Techniques For Hydrogen Fuelled Internal Combustion Engine
UMPSA World's Top 2% Scientist

Faculty of Mechanical and Automotive Engineering Technology

My Profile

**Associate Professor Ir. Ts. Dr. Norazlianie binti Sazali**

azlianie@umpsa.edu.my

018-9696040

Analysis On Polyimide/Nanocrystalline Cellulosed-Based Carbon Membrane For Hydrogen Purifications
UMPSA World's Top 2% Scientist

Faculty of Manufacturing and Mechatronic Engineering Technology

My Profile

**Professor Ts. Dr. Sumaiya binti Zainal Abidin@ Murad**

sumaiya@umpsa.edu.my

019-5664177

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

Faculty of Chemical and Process Engineering Technology

My Profile



**Associate Professor Ts. Dr. Noor Asma Fazli bin Abdul Samad**

asmafazli@umpsa.edu.my

013-2881807

Hydrogen Production Using Gasification

Faculty of Chemical and Process Engineering Technology

My Profile

**Associate Professor Ts. Dr. Herma Dina binti Setiabudi**

herma@umpsa.edu.my

012-7393471

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

Faculty of Chemical and Process Engineering Technology

My Profile

**Associate Professor Dr. Azrina binti Abd Aziz**

azrinaaziz@umpsa.edu.my

010-3932711

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

Faculty of Civil Engineering Technology

My Profile

**Dr. Kamrul Fakir bin Kamarudin**

kamrul@umpsa.edu.my

013-7728786

Exploration Of Potential Native Microalgae (*Chlaetla* Sp. and *Scenedesrnu* Sp.) As A Nev Source Of Hydrogen Production Through Biomass Fermentation And Stress Growth Pathway**Faculty of Industrial Sciences and Technology**

My Profile



**Dr. Asmida binti Ideris**

asmida@umpsa.edu.my

019-7571404

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

Faculty of Chemical and Process Engineering Technology

My Profile

**Dr. Sureena binti Abdullah**

sureena@umpsa.edu.my

013-9862161

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

Faculty of Chemical and Process Engineering Technology

My Profile

**Ts. Dr. Mohd Nasrullah bin Zulkifli**

mnasrul@umpsa.edu.my

0139746838

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

Faculty of Civil Engineering Technology

My Profile

**Ts. Dr. Mohd Razali bin Hanipah**

mohdrazali@umpsa.edu.my

0193392839

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile





Dr. Noor Intan Shafinas binti Muhammad

shafinas@umpsa.edu.my

016-3148639

Sustainability Assessment Of Biohydrogen Production From
Citrus Waste

Faculty of Civil Engineering Technology

My Profile



Associate Professor Ir. Ts. Dr. Devarajan a/I Ramasamy

deva@umpsa.edu.my

016-7580946

Analysis Of Piston Liner To Lean Burn Hydrogen Usage In The
Engine For Combustion Analysis, Lubrication, And Flame Speed
Analysis

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



**Professor Dr. Rizalman bin Mamat**

rizalman@umpsa.edu.my

013 929 0709

Performance And Emission Characteristic Of A Diesel Engine Operating With Biofuel

UMPSA World's Top 2% Scientist

Faculty of Mechanical and Automotive Engineering Technology

My Profile

**Associate Professor Dr. Sudhakar Kumarasamy**

sudhakar@umpsa.edu.my

019-7308925

Advanced Biodiesel Production From Various Bioresources And Waste Oil Blends

UMPSA World's Top 2% Scientist

Faculty of Mechanical and Automotive Engineering Technology

My Profile

**Professor Ts. Dr. Jolius Bin Gimbun**

Jolius@umpsa.edu.my

012-6512908

Solid Catalyst System And Multiple Tubular Reactor Designing For Biodiesel Production

Faculty of Chemical and Process Engineering Technology

My Profile

**Professor Ts. Dr. Gaanty Pragas a/I Maniam**

gaanty@umpsa.edu.my

016-4110236

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

Faculty of Industrial Sciences and Technology

My Profile





Associate Professor Ts. Dr. Mior Ahmad Khushairi bin Mohd Zahari

ahmadkhushairi@umpsa.edu.my

014-8290960

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Dr. Wan Mohd Hafizuddin bin Wan Yussof

hafizuddin@umpsa.edu.my

019-9851850

Analysis Of Mixing Behaviour In Oscillatory Baffles Reactor (OBR) In The Transesterification Of Refined Palm Oil To Produce Biodiesel Using $\text{Ca}(\text{CH}_3\text{O})_2$ As A Heterogeneous Catalyst

Faculty of Chemical and Process Engineering Technology

My Profile



Professor Ts. Dr. Sumaiya binti Zainal Abidin@ Murad

sumaiya@umpsa.edu.my

019-5664177

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Ts. Dr. Azilah bt Ajit@Abd Aziz

azilahajit@umpsa.edu.my

019-9710201

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

Faculty of Chemical and Process Engineering Technology

My Profile



**Associate Professor Ts. Dr. Ruwaida binti Abdul Rasid**

ruwaida@umpsa.edu.my

013-3669874

Torrefaction Of Oil Palm Wastes For Enhanced Solid Fuel Properties

Faculty of Chemical and Process Engineering Technology

My Profile

**Dr. Suriyati binti Saleh**

suriyati@umpsa.edu.my

018-2281611

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

Faculty of Chemical and Process Engineering Technology

My Profile

**Ts. Dr. Nur Hidayah binti Mat Yasin**

hidayahyassin@umpsa.edu.my

019-7391938

Immobilization Of Chlorella Vulgaris For Biomass Recovery And Biodiesel Production

Faculty of Chemical and Process Engineering Technology

My Profile

**Dr. Mohd Fazli bin Farida Asras**

mohdfazli@umpsa.edu.my

019-720 6799

Bioprospecting Of Novel Biomass-Degrading Genes From The Rumen Of Cattle Using Integrated Metatranscriptomic Analyses For The Production Of Biofuel

Faculty of Industrial Sciences and Technology

My Profile





Associate Professor Ir. Dr. Muhamad Zahim bin Sujod

zahim@umpsa.edu.my

011-10988048

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

Faculty of Electrical and Electronics Engineering Technology

My Profile



Ts. Dr. Wan Isnii Sofiah binti Wan Din

sofiah@umpsa.edu.my

019-2262602

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

Faculty of Computing

My Profile



Dr. Wan Norlinda Roshana binti Mohd Nawi

roshana@umpsa.edu.my

0129985950

Integrated Planning And Management Model To Regulate CO² Emission

Faculty of Industrial Sciences and Technology

My Profile



Dr. Ahmad Syahiman bin Mohd Shah

asyahiman@umpsa.edu.my

018-9087676

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

Faculty of Electrical and Electronics Engineering Technology

My Profile





Muhammad Ammar bin Nik Mu'tasim

ammar@umpsa.edu.my

019-7701612

Optimization Of Hybrid Flow Shop Scheduling To Minimizing Machine Energy

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Ir. Dr. Noor Zaihah binti Jamal

zaihah@umpsa.edu.my

010-9324517

Investigation of Barnacles Mating Optimizer (BMO) to Solve the Overcurrent Relays Coordination Problem in Electrical Power System

Faculty of Electrical and Electronics Engineering Technology

My Profile



Ts. Muhammad Ikram bin Mohd Rashid

mikram@umpsa.edu.my

019-7978595

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

Faculty of Electrical and Electronics Engineering Technology

My Profile



Associate Professor Dr. Mohd Herwan bin Sulaiman

herwan@umpsa.edu.my

012-7324001

Optimization And Control Of Small Hydropower Plant Operation

Faculty of Electrical and Electronics Engineering Technology

My Profile





Dr. Norhafidzah binti Mohd Saad

norhafidzah@umpsa.edu.my

014-8456063

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)

Faculty of Electrical and Electronics Engineering Technology

[My Profile](#)



Ts. Roziah binti Zailan

roziahz@umpsa.edu.my

09-4315958

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

Faculty of Civil Engineering Technology

Faculty of Industrial Sciences and Technology

[My Profile](#)





Ir. Dr. Mohd Firdaus bin Hassan

firdaus@umpsa.edu.my

0199243481

A Self-tuning Vibration Energy Harvester

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Dr. Mohd Hazwan bin Yusof

mohdhazwan@umpsa.edu.my

019-6043573

Enhancement Of High-temperature Compressed Gas Cooling
Process Using Vortex Tube Through Geometrical Parameters
Modification

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



MATERIAL SCIENCES

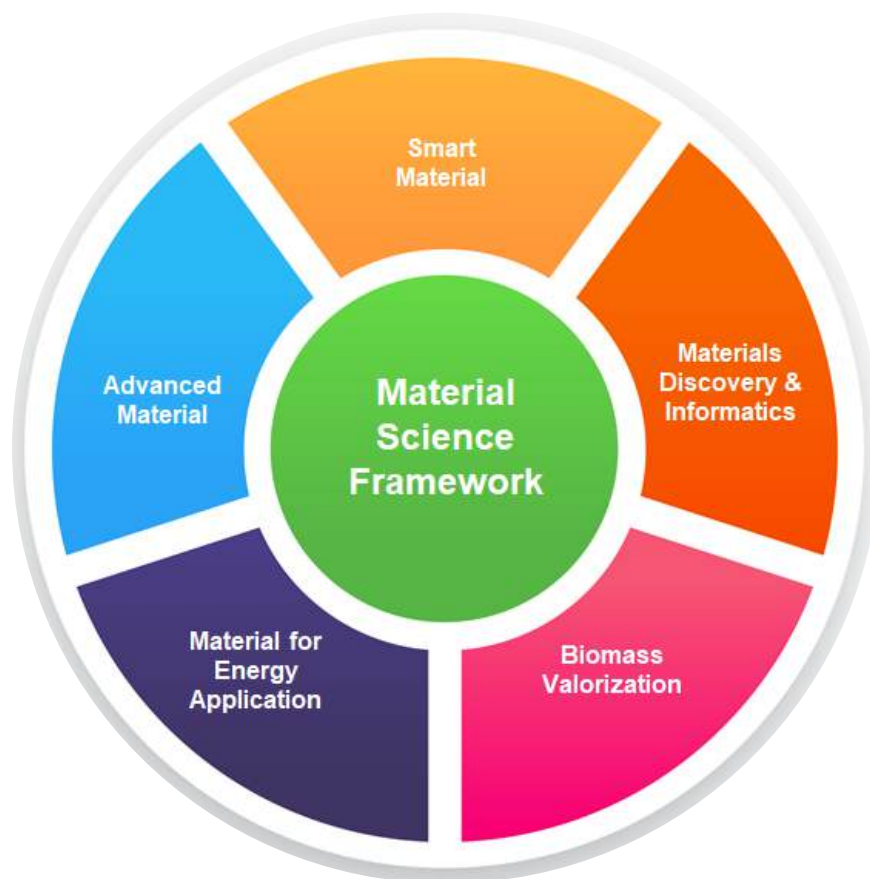


MATERIAL SCIENCES

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.





Professor ChM Dr. Mohd Hasbi bin Ab Rahim

mohdhasbi@umpsa.edu.my

013-3441998

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

UMPSA World's Top 2% Scientist

Faculty of Industrial Sciences and Technology

My Profile



Professor Ts. Dr. Che Ku Mohammad Faizal bin Che Ku Yahya

mfaizal@umpsa.edu.my

019-2703219

Production Of Polyhydroxyalkanoates (PHA) From Oil Palm
Biomass

Faculty of Chemical and Process Engineering Technology

My Profile



Professor Ts. Dr. Gaanty Pragas A/L Maniam

gaanty@umpsa.edu.my

016-4110236

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

Faculty of Industrial Sciences and Technology

My Profile



Professor Datin Ts. Dr. Mimi Sakinah binti Abdul Munaim

mimi@umpsa.edu.my

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

Faculty of Chemical and Process Engineering Technology

My Profile





Associate Professor Dr. Wan Mohd Hafizuddin bin Wan Yussof

hafizuddin@umpsa.edu.my

019-9851850

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Ts. Dr. Ruwaida binti Abdul Rasid

ruwaida@umpsa.edu.my

013-3669874

Development Of A Biomass Torrefaction System For Solid
Fuel Production

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Ts. Dr. Mohamad Ashry bin Jusoh

ashry@umpsa.edu.my

012-2425164

Carbon Black From Pyrolised Agricultural Wastes As
Electromagnetic Shielding Material

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Ts. Dr. Saidatul Shima binti Jamari

sshima@umpsa.edu.my

017-8123278

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

Faculty of Chemical and Process Engineering Technology

My Profile





Ts. Dr. Suriyati binti Saleh

suriyati@umpsa.edu.my

018-2281611

Development Of Torrefied Pellet From Palm Oil Waste For Biofuel Production

Faculty of Chemical and Process Engineering Technology

My Profile



Dr. Mohd Fazli bin Farida Asras

mohdfazli@umpsa.edu.my

019-720 6799

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

Faculty of Industrial Sciences and Technology

My Profile



Ts. Dr. Fatin Zafirah binti Mansur

fatinzafirah@umpsa.edu.my

018-2281611

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

Faculty of Civil Engineering Technology

My Profile



Dr. Rasidi bin Roslan

rasidi@umpsa.edu.my

013-3104007

Fast And Effective Production Of Nanocellulose From Biomass

Faculty of Industrial Sciences and Technology

My Profile





Dr. Mazni binti Ismail

mazni@umpsa.edu.my

013-9593067

Utilization Of Food Waste As Biomass Energy Source

Faculty of Chemical and Process Engineering Technology

My Profile



Ts. Shahril bin Mohamad

shahrilm@umpsa.edu.my

0179485598

Production Of Ferulic Acid From Banana Stem Waste

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Dr. Sudhakar Kumarasamy

sudhakar@umpsa.edu.my

019-7308925

Sustainable Assessment of Biofuel Production From
Marine Macroalgae

UMPSA World's Top 2% Scientist

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile





Professor ChM Dr. Mohd Hasbi bin Ab Rahim

mohdhasbi@umpsa.edu.my

013-3441998

Formulation Of Locally Available Materials Into Catalyst

Support For Oil And Gas Industry

UMPSA World's Top 2% Scientist

Faculty of Industrial Sciences and Technology

My Profile



Professor Ts. Dr. Kamal bin Yusoh

kamal@umpsa.edu.my

019-9339541

Surface Modification Of Graphene Nanofillers Through

Controlled Radical Polymerization To Improve The Interaction

In Polylactic Acid (PLA) -Graphene Nanocomposites

Faculty of Chemical and Process Engineering Technology

My Profile



Professor Ts. Dr. Gaanty Pragasa/I Maniam

gaanty@umpsa.edu.my

016-4110236

Industrial Waste-Adsorbents for Removing Steryl Glucosides

in Palm-Based Biodiesel

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Ts. Dr. Saifful Kamaluddin bin

Muzakir @ Lokman

saifful@umpsa.edu.my

019-2763844

A Study On Properties Of MoS_2 Fabricated Using Vacuum

Thermal Evaporation Technique At Steady And Rapid Rate

Of Heating

Faculty of Industrial Sciences and Technology

My Profile





Associate Professor Ir. Dr Syed Mohd Saufi bin Tuan Chik

smsaufi@umpssa.edu.my

013-2897675

Nanocellulose-based Membrane For Water Treatment And Purification

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Dr. Fatmawati binti Adam

fatmawati@umpssa.edu.my

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

Faculty of Chemical and Process Engineering Technology

My Profile



Ts. Dr. Farah Hanani binti Zulkifli

farahhanani@umpssa.edu.my

0162054397

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

Faculty of Industrial Sciences and Technology

My Profile



Ts. Dr. Siti Noor Hidayah binti Mustapha

snhidayah@umpssa.edu.my

018-6682884

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

Faculty of Industrial Sciences and Technology

My Profile





Ts. Dr. Muhammad Hafiz bin Mazwir

muhammadhafiz@umpsa.edu.my

016-2185851

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

Faculty of Industrial Sciences and Technology

My Profile



Ts. Dr. Azri bin Alias

azribalias@umpsa.edu.my

017-9030887

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Dr. Rodziah binti Nazlan

rodziah@umpsa.edu.my

012-2394504

Materials Formulation And Processing Design For Magnetic Ferrites Cores

Faculty of Industrial Sciences and Technology

My Profile



Dr. Nurul Akmal binti Che Lah

akmalcl@umpsa.edu.my

011-37430086

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

Faculty of Manufacturing and Mechatronic Engineering Technology

My Profile





Ts. Dr. Siti Maznah binti Kabeb

smaz@umpsa.edu.my

013-7666353

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Wan Norfazilah binti Wan Ismail

norfazilah@umpsa.edu.my

Antimicrobials Encapsulated Nanoparticles For Socks To Prevent Bromodosis

Faculty of Industrial Sciences and Technology

My Profile



Ts. Dr. Ahmad Zamani bin Ab Halim

ahmadzamani@umpsa.edu.my

012-3456934

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

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Ts. Dr. Khairunisa binti Muthusamy

khairunisa@umpsa.edu.my

017-8426549

Elucidation of Kinetic Reactivity Parameters of Chemically Treated Spent Garnet Powder In Seashell Ash Blended Cement Environment

Faculty of Civil Engineering Technology

My Profile





Ts. Dr. Siti Maznah binti Kabeb

smaz@umpsa.edu.my

013-7666353

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Wan Norfazilah binti Wan Ismail

norfazilah@umpsa.edu.my

Antimicrobials Encapsulated Nanoparticles For Socks To Prevent Bromodosis

Faculty of Industrial Sciences and Technology

My Profile



Ts. Dr. Ahmad Zamani bin Ab Halim

ahmadzamani@umpsa.edu.my

012-3456934

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

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Ts. Dr. Khairunisa binti Muthusamy

khairunisa@umpsa.edu.my

017-8426549

Elucidation of Kinetic Reactivity Parameters of Chemically Treated Spent Garnet Powder In Seashell Ash Blended Cement Environment

Faculty of Civil Engineering Technology

My Profile





Ts. Dr. Nur Farhayu binti Ariffin

farhayu@umpsa.edu.my

013-7003769

Investigation on The Materials Characteristic, Mix Design, Fresh and Hardened Properties of Lightweight Concrete Using Coal Bottom Ash

Faculty of Civil Engineering Technology

My Profile



Ts. Dr. Rahimah binti Embong

rahimahe@umpsa.edu.my

019-5704657

The Early-Hydration Mechanism And Kinetic Reactions Of Blended Cement Containing Biochar-Palm Kernel Shell (B-Pks) And Pre-Hydrated Slurry

Faculty of Civil Engineering Technology

My Profile



Dr. Aizat bin Alias

aizat@umpsa.edu.my

019-7625863

Formulations of cementitious materials composition for 3D concrete print

Faculty of Civil Engineering Technology

My Profile



Dr. Khairul Anuar bin Shahid

khairulanuars@umpsa.edu.my

016-2326302

Coal Bottom Ash Concrete: Mechanical Properties And Cracking Mechanism Of Concrete Subjected To Cyclic Load Test

Faculty of Civil Engineering Technology

My Profile





Associate Professor Ir. Ts. Dr. Devarajan a/I Ramasamy

deva@umpsa.edu.my

016-7580946

Investigation Of MXene/Gr As Additive Lubricant For Piston Ring-cylinder Liner Material

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Associate Professor Ts. Dr. Mohd Azrul Hisham bin Mohd Adib

azrul@umpsa.edu.my

019-9439287

Development of the Functional Heart Model using Soft Materials for CardioVASS Device

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Ts. Dr. Ros Azlinawati binti Ramli

azlinawati@umpsa.edu.my

014-9664254

The Role Of Reactive Functionalities And Crosslinking Mechanism Toward Multiple Hydrogen Bonding Of Hydrogel Reinforced By Cellulose Nanocrystal

Faculty of Industrial Sciences and Technology

My Profile



Ts. Dr. Nurjannah binti Salim

njannah@umpsa.edu.my

012-5077116

Mechanical And Thermal Properties Studies Of Hybrid Durian Skin Fiber (DSF) And Palm Kernel Shell Fiber (PKS) Based Polyester Composite For Hot Water Pipes Application

Faculty of Industrial Sciences and Technology

My Profile





ChM. Ts. Dr. Yuen Mei Lian

yuenm@umpsa.edu.my

012-3520297

Synthesis and Application of Nanoparticle in Wastewater Treatment

Faculty Of Industrial Sciences And Technology

[My Profile](#)



Associate Professor Dr. Azrina binti Abd Aziz

azrinaaziz@umpsa.edu.my

010-3932711

Machine Learning Modelling and Prediction of Photocatalytic Co² Reduction Reactivity and Mechanism from MXenes Quantum Dots-Graphitic Carbon Nitride Photocatalyst

Faculty of Civil Engineering Technology

[My Profile](#)



Associate Professor Dr. Doh Shu Ing

dohsi@umpsa.edu.my

019-8129298

Elucidation of Concrete Sleeper Using Steel Slag for Railway Application.

Faculty of Civil Engineering Technology

[My Profile](#)



Ts. Dr. Youventharan a/I Duraisamy

youventharan@umpsa.edu.my

012-2293579

The Performance Of Rail Track Ballast Incorporating Waste Materials In Reducing Damages

Faculty Of Civil Engineering Technology

[My Profile](#)





Ts. Dr. Nurmunira binti Muhamma@atan

muniramuhammad@umpsa.edu.my

018-9009926

Development Of Gypsum Soil Additive For Stabilization Of Problematic Soil In East Coast Malaysia

Faculty Of Civil Engineering Technology

My Profile



Associate Professor Ts. Dr. Khairil Azman bin Masri

khairilazman@umpsa.edu.my

011-19346422

Microstructure Interaction Mechanism On Blending Process Of Nanomaterial With Asphalt Binder That Governs The Morphology Rheology, And Mechanical Properties Of Nanomodified Cold Mix Asphalt Mixture

Faculty Of Civil Engineering Technology

My Profile



Associate Professor Dr. Januar Parlaungan Siregar

januar@umpsa.edu.my

011-27009237

The Incorporation Of Natural Fibers And Fillers Reinforced Polymer Composites

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Ir. Dr. Mohd Rashidi bin Maarof

mrashidi@umpsa.edu.my

013-3203462

Ni-Resist materials for elevated temperature application

Faculty of Mechanical and Automotive Engineering Technology

My Profile





Ts. Dr. Luqman Hakim bin Ahmad Shah

luqmanhakim@umpsa.edu.my

010-7776292

Elucidation Of Intermetallic Compound Formation Mechanism
In Aluminium-magnesium Dissimilar Friction Stir Welding

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Ts. Dr. Mas Ayu binti Hassan

masszee@umpsa.edu.my

012-8070525

Synthesis And Characterization Of Hydroxyapatite/ Magnesium
Coating Performances On Co-Cr-Mo Alloy For Implant Screw
Application

**Faculty of Manufacturing and Mechatronic Engineering
Technology**

My Profile



Dr. Nur Zalikha binti Khalil

nurzalikhak@umpsa.edu.my

010-4046249

Synergistic Strengthening Mechanism In Adhesive Joining
With Hybrid Nanoparticles

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Dr. Mohd Shamil bin Shaari

shamil@umpsa.edu.my

011-14608525

Computational Approach on Predicting Coalescences
Embedded Cracks for AlSi10Mg Metallic Additive
Manufacturing Materials

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile





Dr. Aiman bin Mohd Halil

aimanmh@umpsa.edu.my

0137654326

Development Of Super-Hydrophobic And Superhydrophilic Surfaces On Ti Alloy And Ss Using Laser Surface Texturing Technique

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Profesor Madya Ir. Dr Asnul Hadi bin Ahmad

asnul@umpsa.edu.my

09-4316224

Explication Of Semisolid Metal Billet Microstructure By Nucleatio Development Approach Using Grain Refining Mechanisms For Automotive Part Components

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Ts. Rosdi bin Daud

rosdidaud@umpsa.edu.my

012-9776525

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Ts. Dr. Nurhafizah binti Abu Talip @ Yusof

hafizahs@umpsa.edu.my

019-4141308

Elucidation of Morphological Structure and Elemental Composition for Novel Dielectric Material Formulation Based on Ananas Cosmosus Cellulose Fiber

Faculty of Electrical & Electronics Engineering Technology

My Profile





Dr. Noor Zirwatul Ahlam binti Naharuddin

zirwatul@umpssa.edu.my

017-6189865

Green Synthesis of Gold Nanoparticles using Edible
Mushroom Extract for Passive Mode Locked Fiber Laser

Faculty of Electrical and Electronics Engineering Technology

My Profile



Dr. Mohamad Shaiful bin Abdul karim

mshaiful@umpssa.edu.my

011-10564155

Formulation of a Novel Environmental Friendly Microwave
Material Based on Ananas Comosus Waste as a Platform of
Biomedical Application for Liver Cancer Treatment

Faculty of Electrical and Electronics Engineering Technology

My Profile



Dr. Syamimi Mardiah binti Shaharum

syamimimardiah@umpssa.edu.my

017-3573575

Development of Substrate Integrated Waveguide Horn
Antenna With Optimum Scattering and Dielectric Parameters
for Material Characterization.

Faculty of Electrical and Electronics Engineering Technology

My Profile



Professor Ir. Ts. Dr. Kumaran a/I Kadirgama

Kumaran@umpssa.edu.my

012-6325043

Elucidate The Interaction Mechanism Of
Supercapacitor/Batteries On Activated Carbon Dot Mxene
Composite As Electrode Material For High-efficiency Energy
Storage

UMPSA World's Top 2% Scientist

Faculty of Mechanical and Automotive Engineering Technology

My Profile





Professor ChM Dr. Chong Kwok Feng

ckfeng@umpsa.edu.my

017-7110262

Nanocarbons-graphene Hybrid Material As High-Performance Supercapacitor

UMPSA World's Top 2% Scientist

Faculty Of Industrial Sciences And Technology

My Profile



Professor Ts. Ir. Dr. Kumaran a/I Kadirgama

Kumaran@umpsa.edu.my

012-6325043

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

UMPSA World's Top 2% Scientist

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Professor Dr. Jose Rajan

rjose@umpsa.edu.my

016-9620388

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

UMPSA World's Top 2% Scientist

Faculty Of Industrial Sciences And Technology

My Profile



Professor Ir. Ts. Dr. Mahendran a/I Samykano

mahendran@umpsa.edu.my

016-6817799

Crystalline Surface Modification Evaluation Of Salt Hydrate Phase Change Material For Improved Thermal & Chemical Stability Utilizing Nanoparticles And Nucleation Agent

UMPSA World's Top 2% Scientist

Faculty of Mechanical and Automotive Engineering Technology

My Profile





ChM Dr. Izan Izwan bin Misnon

iezwan@umpsa.edu.my

013-9221487

UMPCAP: Supercapacitor From Local Activated Carbon

UMPSA World's Top 2% Scientist (2023)

Faculty Of Industrial Sciences And Technology

My Profile



Associate Professor Ts. Dr. Muhamad bin Mat Noor

muhamad@umpsa.edu.my

013-9841610

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

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Associate Professor Dr. Ahmad Salihin bin Samsudin

ahmadsalihin@umpsa.edu.my

0123716071

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

Faculty Of Industrial Sciences And Technology

My Profile



Ts. Dr. Noor Sabrina binti Ahmad Mutamim

noorsabrina@umpsa.edu.my

012-7383371

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

Faculty of Chemical and Process Engineering Technology

My Profile





**Associate Professor Ts. Dr. Saifful Kamaluddin bin Muzakir
@ Lokman**

saifful@umpsa.edu.my

019-2763844

Unraveling The Correlation Between Multiple Exciton
Generation In Germanium And Photovoltaic Conversion
Efficiency

Faculty Of Industrial Sciences And Technology

My Profile



Dr. Noor Yahida binti Yahya

nooryahida@umpsa.edu.my

017-7695911

Mechanism Studies Of Iron-rich Based Biochar Properties In
Sequestering Product Inhibition For Anaerobic Digestion
Stability Of Food Waste

Faculty of Civil Engineering Technology

My Profile





Associate Professor Dr. Syarifah Nur Aqida binti Syed Ahmad

aqida@umpsa.edu.my

0175807746

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Dr. Wan Salwanis binti Wan Md Zain

salwanis@umpsa.edu.my

011-10666127

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

Faculty of Chemical and Process Engineering Technology

My Profile



Dr. Rasidi bin Roslan

rasidi@umpsa.edu.my

013-3104007

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

Faculty Of Industrial Sciences And Technology

My Profile



Ir. Ts. Dr. Juliawati binti Alias

juliawati@umpsa.edu.my

013-4074907

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile





Dr. Zulhelmi bin Ismail

zulhelmii@umpsa.edu.my

013-6166919

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

Faculty of Manufacturing and Mechatronic Engineering Technology

My Profile



Ts. Dr. Shamsul bin Zakaria

shamsulzakaria@umpsa.edu.my

012-2934375

Evaluation Of Electromechanical Properties Of Stretch Sensor From Dielectric Elastomer

Faculty Of Industrial Sciences And Technology

My Profile



Associate Professor Dr. Ramadhansyah Putra Jaya

ramadhansyah@umpsa.edu.my

012-3994214

A Novel of Hybrid Asphalt as Modified Binder And Mixture
UMPSA World's Top 2% Scientist

Faculty Of Civil Engineering Technology

My Profile



Associate Professor Ts. Dr. Khairil Azman bin Masri

khairilazman@umpsa.edu.my

011-19346422

Pilot Study Of Cold Mix Asphalt

Faculty Of Civil Engineering Technology

My Profile





Professor Ts. Dr. Kamal Zuhairi bin Zamli

kamalz@umpsa.edu.my

013-9326049

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)

UMPSA World's Top 2% Scientist

Faculty Of Computing

My Profile



Professor Dr. Jose Rajan

rjose@umpsa.edu.my

016-9620388

Materials 4.0 @ ASEAN

UMPSA World's Top 2% Scientist

Faculty Of Industrial Sciences And Technology

My Profile



Associate Professor Ts. Dr. Noor Asma Fazli bin Abdul Samad

asmafazli@umpsa.edu.my

013-2881807

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Dr. Mohamed Ariff bin Ameen

mohamedariff@umpsa.edu.my

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

Faculty Of Computing

My Profile





Associate Professor Ts. Dr. Norida binti Ridzuan

norida@ump.edu.my

013-2097675

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

Faculty of Chemical and Process Engineering Technology

[My Profile](#)



Ts. Dr. Noorhuzaimi @ Karimah binti Mohd Noor

nhuzaimi@ump.edu.my

013-9844432

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

Faculty Of Computing

[My Profile](#)





Dr. Khairiah binti Mohd Mokhtar

khairiahmm@umpsa.edu.my

017-6806917

Ignition Sensitivity And Explosion Characteristics of Palm
Kernel Shell

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Dr. Nadzirah binti Mohd Mokhtar

nadzirah@umpsa.edu.my

012-6121045

Surface Modification of PVDF/clay Nanocomposite Membrane
using Teflon AF2400 Super Hydrophobic Coating Solution for
Membrane Distillation Application

Faculty Of Civil Engineering Technology

My Profile



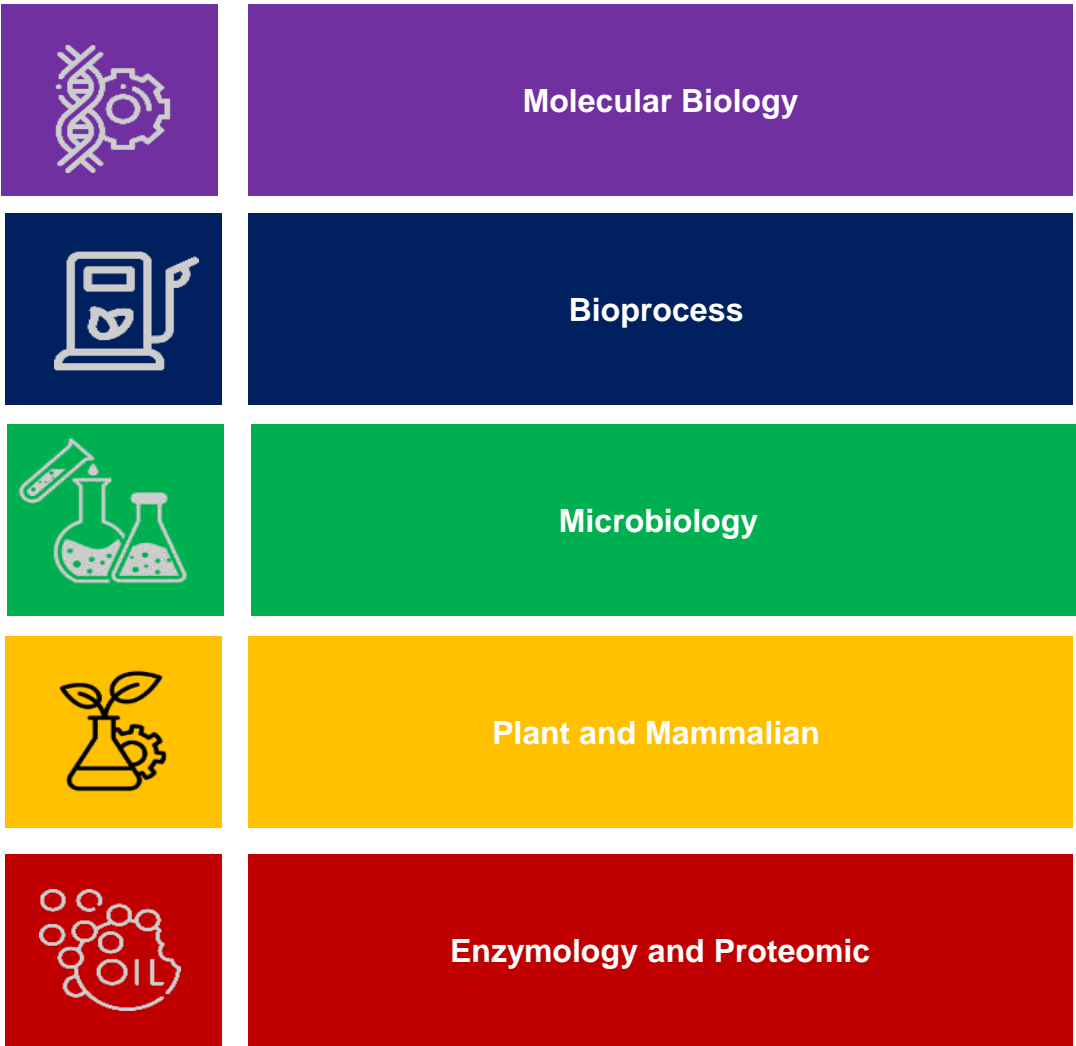


INDUSTRIAL BIOTECHNOLOGY

FACULTY
SCIENCE

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



**Associate Professor Dr. Aizi Nor Mazila binti Ramli**

aizinor@umpsa.edu.my

016-9210232

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

Faculty of Industrial Sciences and Technology

My Profile

**Dr. Lee Chin Mei**

lcmei@umpsa.edu.my

019-7443648

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

Faculty of Industrial Sciences and Technology

My Profile

**Ts. Dr. Hajar Fauzan bin Ahmad**

fauzanahmad@umpsa.edu.my

013-8160272

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

Faculty of Industrial Sciences and Technology

My Profile

**Ts. Dr. Nurul 'Azyyati binti Sabri**

azyyatis@umpsa.edu.my

012-6554163

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

Faculty of Industrial Sciences and Technology

My Profile





Dr. Shariza binti Jamek

sharizaj@umpsa.edu.my

0196993107

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

Faculty of Industrial Sciences and Technology

My Profile



Dr Noor Suhana binti Adzahar

nsuhana@umpsa.edu.my

019-4495477

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

Faculty of Industrial Sciences and Technology

My Profile



Mohd Hairul bin Ab Rahim

mhairul@umpsa.edu.my

012-3220874

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

Faculty of Industrial Sciences and Technology

My Profile



**Associate Professor Ts. Dr. Chua @ Yeo Gek Kee**

chua@umpsa.edu.my

018-9135855

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

Faculty of Chemical and Process Engineering Technology

My Profile

**Associate Professor Ts. Dr. Farhan binti Mohd Said**

farhan@umpsa.edu.my

017-2791038

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

Faculty of Chemical and Process Engineering Technology

My Profile

**Ts. Dr. Nasratun binti Masngut**

nasratun@umpsa.edu.my

012-3041935

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

Faculty of Chemical and Process Engineering Technology

My Profile

**Dr. Nazira binti Mahmud**

nazira@umpsa.edu.my

013-4270056

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

Faculty of Industrial Sciences and Technology

My Profile





Dr. Mohd Fazli bin Farida Asras

mohdfazli@umpsa.edu.my

019-720 6799

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

Faculty of Industrial Sciences and Technology

My Profile



Ir. Dr. Chew Few Ne

cfne@umpsa.edu.my

0123028588

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Dr. Hazrulrizawati bt Abd Hamid

hazrulrizawati@umpsa.edu.my

019-7778603

Fermentation Mechanism Study Of Rambutan (Nephelium
Lappaceum) And Pulasan (Nephelium Mutabile)

Faculty of Industrial Sciences and Technology

My Profile





Associate Professor Dr. Tan Suat Hian

tshian@umpsa.edu.my

018-2779888

Pro-Golive: Mixed Starter Inoculum Powder

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Dr. Nina Suhaity binti Azmi

nina@umpsa.edu.my

012-7980497

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Nurul 'Azyyati binti Sabri

azyyatis@umpsa.edu.my

012-6554163

Evaluation Of Antibiotics And Antibiotic Resistance Genes In Wastewater Treatment Plant

Faculty of Industrial Sciences and Technology

My Profile



Ts. Dr. Nasratun binti Masngut

nasratun@umpsa.edu.my

012-3041935

Profile study of microbial acetic acid production from pineapple peel waste

Faculty of Chemical and Process Engineering Technology

My Profile





Dr. Lee Chin Mei

lcmei@umpssa.edu.my

019-7443648

Isolation Of Cellulolytic Microorganisms For Rice Straw Degradation

Faculty of Industrial Sciences and Technology

My Profile



Ts. Dr. Nurmunira binti Muhammad @ Atan

muniramuhammad@umpssa.edu.my

018-9009926

Deciphering Peat Soil Stabilization: Mg-rich Synthetic Gypsum Application Facilitating Microbially Induced Calcium Carbonate Precipitation (MICP)

Faculty of Civil Engineering Technology

My Profile





Associate Professor Dr. Tan Suat Hian

tshian@umpssa.edu.my

018-2779888

Mass Propagation On Pisang Lang And Pisang Tanduk

Faculty of Industrial Sciences and Technology

My Profile



Dr. Nor Adila binti Mhd Omar

nadila@umpssa.edu.my

012 5754767

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

Faculty of Industrial Sciences and Technology

My Profile



Dr Normaiza binti Zamri

maiza@umpssa.edu.my

018-9593641

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

Faculty of Industrial Sciences and Technology

My Profile



Ts. Muhammad Adam Lee bin Abdullah

adamlee@umpssa.edu.my

019-4995477

Investigation Of The Roles Of Cutaneous Papillomaviruses
Oncoproteins In Cellular Transformation

Faculty of Industrial Sciences and Technology

My Profile





Dr. Ahmad Mahfuz bin Gazali

mahfuz@umpsa.edu.my

013-6399697

Culture of human immunological cells

Human Type 1 diabetes

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Dr. Abdul Syukor bin Abd. Razak

syukor@umpsa.edu.my

016-9211143

Oil Palm Mesocarp (OPM) and Empty Fruit Bunch (EFB)

Mixture as a Raw Material of Artificial Bait to Control

Subterranean Termites

Faculty of Civil Engineering Technology

My Profile



Dr. Rosdiyana bt Samad

rosdiyana@umpsa.edu.my

017-2828008

Development of a Machine Vision System for Oil Palm Fruits

Grading

Faculty of Electrical and Electronics Engineering Technology

My Profile



Dr. Nor Adila binti Mhd Omar

nadila@umpsa.edu.my

012-5754767

Evaluation of nutritive and non-nutritive sweeteners ratio
intake on inflammation and gut microbiota in a rat model.

Faculty of Industrial Sciences and Technology

My Profile





Professor Datin Ts. Dr. Mimi Sakinah binti Abdul Munaim

mimi@umpsa.edu.my

019-9221475

Novel Formulation Of Anti-Tyrosinase Face Serum Using A Novel
Plant Extract

Faculty of Chemical and Process Engineering Technology

My Profile





Associate Professor Dr. Jaya Vejayan a/I Palliah

jayavejayan@umpsa.edu.my

016-6063804

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

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Dr. Aizi Nor Mazila binti Ramli

aizinor@umpsa.edu.my

016-9210232

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Shariza binti Jamek

sharizaj@umpsa.edu.my

019-6993107

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Hong Pui Khoon

hongp@umpsa.edu.my

017-964 2839

Enzymatic Hydrolysis Of Protein For Bioactive Peptides Transglutaminase Mediated Protein Conjugation

Faculty of Industrial Sciences and Technology

My Profile

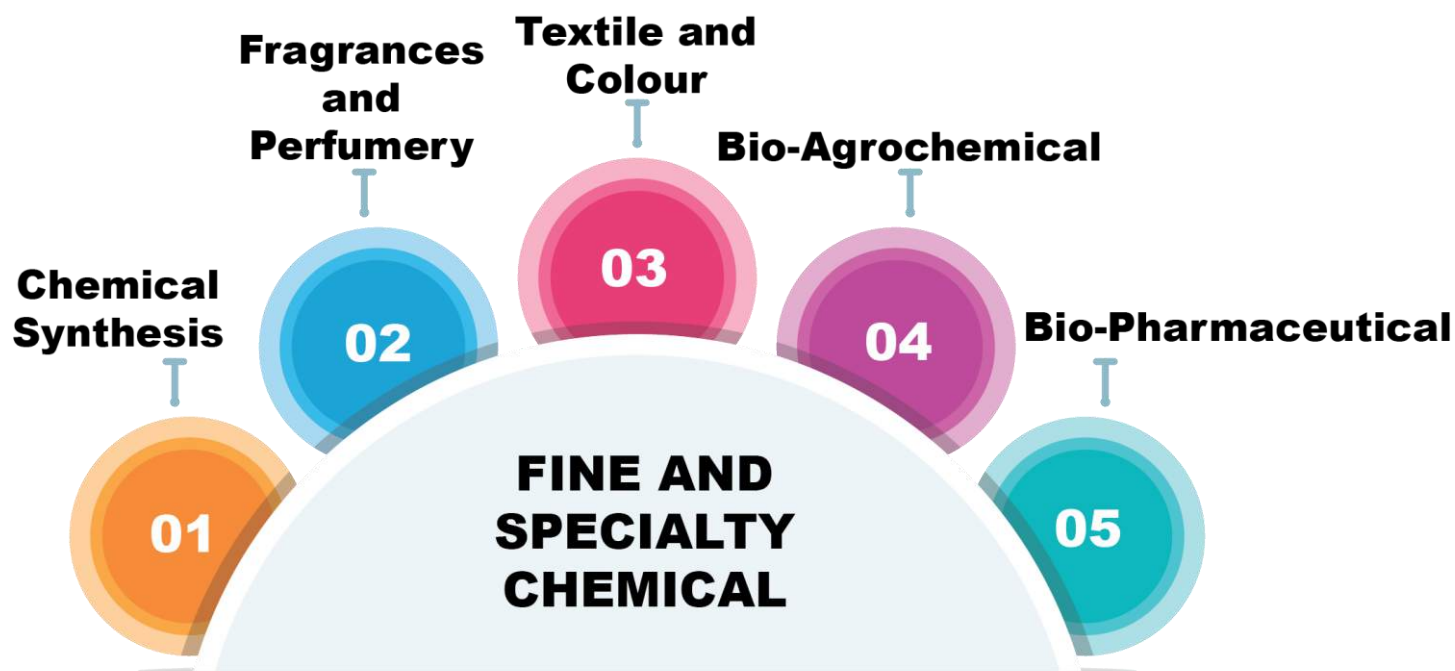




FINE AND SPECIALTY CHEMICAL

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, including Chemical Synthesis, Fragrances and Perfumery, Textile and Colour, Bio-Agrochemical and Bio-Pharmaceutical.





Professor ChM Dr. Mohd Hasbi bin Ab Rahim

mohdhasbi@umpsa.edu.my

013-3441998

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

UMPSA World's Top 2% Scientist

Faculty of Industrial Sciences and Technology

My Profile



Professor Ts. Dr. Che Ku Mohammad Faizal bin Che Ku Yahya

mfaizal@umpsa.edu.my

019-2703219

Production Of Polyhydroxyalkanoates (PHA) From Oil
Palm Biomass

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Dr. Wan Mohd Hafizuddin bin Wan Yusof

hafizuddin@umpsa.edu.my

019-9851850

Optimization Of Acid Pretreatment Of Lignocellulosic
Biomass For Xylooligosaccharides Production

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Dr. Nurul Aini binti Mohamed Razali

ainirazali@umpsa.edu.my

019-7828204

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

Faculty of Chemical and Process Engineering Technology

My Profile





Associate Professor Ts. Dr. Mior Ahmad Khushairi bin Mohd Zahari

ahmadkhushairi@umpsa.edu.my

014-8290960

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Ts. Dr. Norida binti Ridzuan

norida@umpsa.edu.my

013-2097675

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

Faculty of Chemical and Process Engineering Technology

My Profile



Ts. Dr. Siti Noor Hidayah binti Mustapha

snhidayah@umpsa.edu.my

018-6682884

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

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Ts. Dr. Nurul Aini binti Mohd Azman

ainiazman@umpsa.edu.my

013-3330766

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

Faculty of Chemical and Process Engineering Technology

My Profile



**Dr. Mohd Fadhlizil Fasihi bin Mohd Aluwi**

fasihi@umpsa.edu.my

012-9661942

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

Faculty of Industrial Sciences and Technology

My Profile

**Ir. Dr. Mohd Sabri bin Mahmud**

mohdsabri@umpsa.edu.my

013-9510384

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

Faculty of Chemical and Process Engineering Technology

My Profile

**Dr. Noor Ida Amalina binti Ahamad Nordin**

idamalina@umpsa.edu.my

016-2022940

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

Faculty of Chemical and Process Engineering Technology

My Profile

**Dr. Siti Umairah binti Mokhtar**

umairah@umpsa.edu.my

016-7025031

Synthesis and development of natural deep eutectic solvents (NADES) as green extraction solvents for medicinal plant

Faculty of Industrial Sciences and Technology

My Profile





Professor Dr. Abdurahman Hamid Nour

abrahman@umpsa.edu.my

012-9134403

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Ir. Dr Norazwina binti Zainol

azwina@umpsa.edu.my

019-2719331

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

Faculty of Chemical and Process Engineering Technology

My Profile



Professor Dr. Saiful Nizam bin Tajuddin

saifulnizam@umpsa.edu.my

019-9894742

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

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Dr. Saiful Anwar bin Che Ghani

anwarcg@umpsa.edu.my

019-7178104

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile





Associate Professor Dr. Muhammad Sharfi bin Najib

sharfi@umpsa.edu.my

019-3894833

A Method Of Determining Grade Of Agarwood At Ambient Temperature

Faculty of Electrical and Electronics Engineering Technology

My Profile



Associate Professor Dr. Aizi Nor Mazila binti Ramli

aizinor@umpsa.edu.my

016-9210232

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

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Dr. Hazrulrizawati binti Abd Hamid

hazrulrizawati@umpsa.edu.my

019-7778603

Production Of Aroma Compounds By Degradation Of Carotenoid From Crude Oil

Faculty of Industrial Sciences and Technology

My Profile





Associate Professor Ts. Dr. Raihana Zahirah binti Edros

rzahirah@umpsa.edu.my

019-2762419

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

Faculty of Chemical and Process Engineering Technology

My Profile



Dr. Mohd Fadhlizil Fasihi bin Mohd Aluwi

fasihi@umpsa.edu.my

012-9661942

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Wan Nurul Huda binti Wan Zainal

wannurulhuda@umpsa.edu.my

012-6377745

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

Faculty of Chemical and Process Engineering Technology

My Profile



**Associate Professor Ts. Dr. Siti Kholijah binti Abdul
Mudalip**

Kholijah@umpsa.edu.my

012-5662739

Crystallization Of Pharmaceutical Compound

Faculty of Chemical and Process Engineering Technology

My Profile





Dr. Daing Mohamad Nafiz bin Daing Idris

daingnafiz@umpssa.edu.my

019-2762419

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

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Associate Professor Dr. Fatmawati binti Adam

fatma@umpssa.edu.my

012-6377745

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Dr Hazrulrizawati bt Abd Hamid

hazrulrizawati@umpssa.edu.my

019-7778603

Identification Of Encapsulated Phenolic Compounds From
Selected Malaysian Plants By A Combination Of Metabolite
Profiling And Chemometrics

Faculty of Industrial Sciences and Technology

My Profile





Associate Professor Dr. Nina Suhaity binti Azmi

012-7980497

nina@umpssa.edu.my

Kleva Showcase Farm

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Ts. Dr. Saidatul Shima binti Jamari

sshima@umpssa.edu.my

017-8123278

Investigation On The Water Absorbency And Swelling
Behaviour Of Carbonaceous Fiber & Nanocellulose
Hydrogels

Faculty of Chemical and Process Engineering Technology

My Profile



Dr. Noormazlinah binti Ahmad

mazlinah@umpssa.edu.my

013-9832041

Production Of Fructooligosaccharides From The Enzymatic
Conversion Of Sucrose Catalyzed By Phytoenzymes Extracted
From Ananas Comosus Waste

Hydroponics And Aquaponics With Aiot In Qatar (Haiat)

Faculty of Chemical and Process Engineering Technology

My Profile



Dr. Siti Hajar Noor binti Shaarani

hajarnoor@umpssa.edu.my

017-5174452

Isolation And Characterization Of Biodegradable Genes From
Municipal Solid Waste

Faculty of Chemical and Process Engineering Technology

My Profile



**Dr. Noraziah binti Abu Yazid**

noraziahay@umpssa.edu.my

017-2814685

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

Faculty of Chemical and Process Engineering Technology

My Profile

**Dr. Nor Hanuni binti Ramli @ Said**

drhanuni@umpssa.edu.my

012-3024184

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

Faculty of Chemical and Process Engineering Technology

My Profile

**Ts. Dr. Ros Azlinawati binti Ramli**

azlinawati@umpssa.edu.my

014-9664254

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

Faculty of Industrial Sciences and Technology

My Profile

**Dr. Amiril Sahab bin Abdul Sani**

amiril@umpssa.edu.my

013-7719973

Elucidating The Chip Formation Processes of Aisi 316l Stainless
Steel Using a Quick-Stop Device During Near-Dry Machining
With Modified Palm Oil-Based Metalworking Fluids

**Faculty of Manufacturing and Mechatronic Engineering
Technology**

My Profile





Dr. Wan Norfazilah binti Wan Ismail

norfazilah@umpsa.edu.my

013-7318645

Synthesis and Fabrication of Antibacterial Nanoparticles on
Fabric to Prevent Odour

Faculty of Industrial Sciences and Technology

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 UMP SA 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.





Professor Dr. Yudi Fernando

yudi@umpsa.edu.my

019-5718008

2RELOGCARCHAIN Using Blockchain Technology For
Carbon Footprint Tracking And Monitoring
UMPSA World's Top 2% Scientist

Faculty of Industrial Management

My Profile



Associate Professor Dr. Cheng Jack Kie

jackkie@umpsa.edu.my

012-2666053

A Hybrid Simulation Model to Evaluate the Performance of
Lean Manufacturing Implementation

Faculty of Industrial Management

My Profile



Associate Professor Ts. Dr. Awanis binti Romli

awanis@umpsa.edu.my

010-4388036

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

Faculty of Computing

My Profile



Ir. Ts. Dr. Hj. Saffuan bin Wan Ahmad

saffuan@umpsa.edu.my

0137481984

Investigating the Root Causes of Effective Enforcement of
the Erosion and Sediment Control Plan in Construction
Projects

Faculty of Civil Engineering Technology

My Profile





Associate Professor Dr. Fazeeda bt. Mohamad

fazeedamohamad@umpsa.edu.my

013-7031224

Logistics-related Knowledge Process Capabilities In
Malaysian Courier Service Industries.

Faculty of Industrial Management

My Profile



Ts. Dr. Nur Farhayu binti Ariffin

farhayu@umpsa.edu.my

013-7003769

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

Faculty of Civil Engineering Technology

My Profile



Ts. Dr. Lee Khai Loon

leekhailoon@umpsa.edu.my

012-4731081

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

Faculty of Industrial Management

My Profile



Associate Professor Ts. Dr. Abdul Rahimi bin Abdul Rahman

arahimirahman@umpsa.edu.my

011-14246854

The Development Trade-Level Productivity Measuring
Tool For Building Construction Projects

Faculty of Civil Engineering Technology

My Profile





Associate Professor Dr. Muhammad Ashraf bin Fauri@Fauzi

ashrafauzi@umpsa.edu.my

013-3005169

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

Faculty of Industrial Management

My Profile



Dr. Adam Shariff bin Adli Aminuddin

adamshariff@umpsa.edu.my

012-4797320

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

Centre of Mathematical Sciences

My Profile



Dr. Kartina binti Johan @ Rahmat

kartina@umpsa.edu.my

012-6813531

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

Faculty of Manufacturing and Mechatronic Engineering Technology

My Profile





Professor Dr. Yudi Fernando

yudi@umps.edu.my

019-5718008

Interventions To Enhance Fishermen Value Chain

Towards Sustainability In Kuala Pahang

UMPSA World's Top 2% Scientist

Faculty of Industrial Management

[My Profile](#)



Ts. Dr. Muhammad Fakhru bin Yusuf

mfakhru@umps.edu.my

016-2380780

Model For The Implementation Of Environmental

Technological Innovation In The Malaysian

Manufacturing Industry

Faculty of Industrial Management

[My Profile](#)



Dr. Noor Suraya binti Romali

suraya@umps.edu.my

012-9308645

Development of Flood Vulnerability Index (FVI)

Using Analytical Hierarchy Process (AHP) For

Kuantan River Basin, Malaysia

Faculty of Civil Engineering Technology

[My Profile](#)



Ts. Dr. Mohammad Adam bin Adman

adamadman@umps.edu.my

019-3490190

Geospatial Analysis Of Indoor Environment Quality

And Sick Building Syndrome Among Work-From-Home

Workers

Faculty of Civil Engineering Technology

[My Profile](#)





Ts. Dr. Lee Yong Siang

leeys@umpsa.edu.my

017-4070272

Priority Importance Of Social Circular Economy Indicators
For Infrastructure Construction Projects

Faculty of Civil Engineering Technology

My Profile





Associate Professor Dr. Lee Chia Kuang

chia@umpsa.edu.my

013-7023668

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

Faculty of Industrial Management

My Profile



Dr. Fatimah binti Mahmud

fatimahm@umpsa.edu.my

019-2828011

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

Faculty of Industrial Management

My Profile



Dr. Hamirahanim binti Abdul Rahman

hamirahanim@umpsa.edu.my

019-2752779

Development Of Decision-Making Framework Decommissioning Malaysian Offshore Platforms

Faculty of Industrial Management

My Profile



Associate Professor Dr. Cheng Jack Kie

jackkie@umpsa.edu.my

012-2666053

Development of a System Dynamic Model to Assess the Effectiveness of Intervention Strategies in Responding to COVID-19 Pandemic in Malaysia.

Faculty of Industrial Management

My Profile





Dr. Mohd Hanafiah bin Ahmad

hanafiah@umpsa.edu.my

019-9587400

Research On UMP Advanced Human Resources
Administration & Management Effectiveness

Faculty of Industrial Management

My Profile



Associate Professor Ts. Dr. Abdul Rahimi bin Abdul Rahman

arahimirahman@umpsa.edu.my

011-14246854

Impact Of Leadership Styles On BIM-Based Construction
Project Performance

Faculty of Civil Engineering Technology

My Profile





Professor Dr. Yudi Fernando

yudi@umpsa.edu.my

019-5718008

Identification Of Entrepreneurship Learning In
Technology Based Business Incubators

UMPSA World's Top 2% Scientist

Faculty of Industrial Management

My Profile



Mejar Dr. Imaduddin bin Abidin

imaduddin@umpsa.edu.my

013-9284224

Program University To Community Social Entrepreneur
@ Urban Community

Faculty of Industrial Management

My Profile



Dr. Mazita binti Mokhtar

mazita@umpsa.edu.my

019-9121068

Sales Revenue Boosting Model Of Malaysian Small And
Medium Enterprise At Global Business Competition.

Faculty of Industrial Management

My Profile



Wan Khairul Anuar bin Wan Abd Manan

anuar@umpsa.edu.my

019-9811069

The Effect Of Entrepreneurship Addiction On MentalHealth
Among Habitual Entrepreneurs

Faculty of Industrial Management

My Profile





Professor Ts. Dr. Mohd Rashid bin Ab Hamid

rashid@umpsa.edu.my

019-9831340

Innovation Excellence Framework for Malaysian Higher Education Institutions.

Centre of Mathematical Sciences

My Profile



Associate Professor Dr. Irene Ting Wei Kiong

irene@umpsa.edu.my

017-9868819

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

Faculty of Industrial Management

My Profile



Associate Professor Dr. Zuraina binti Ali

zuraina@umpsa.edu.my

012-9676507

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

Centre for Modern Languages

My Profile



Associate Professor Dr. Puteri Fadzline binti Muhamad Tamyaz

fadzline@umpsa.edu.my

012-6138147

Formulation Of Slow Learners Cognitive Development Model Through Playground Equipment Design

Faculty of Industrial Management

My Profile





Associate Professor Dr. Noor Raha binti Mohd Radzuan

nraha@umpssa.edu.my

019-5766 145

Professional Development Programme : Communication
English and Effective Storytelling Techniques

Centre For Modern Languages

My Profile



Associate Professor Dr. Nik Hafizoah binti Kassim

hafizoah@umpssa.edu.my

019-3367005

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

Centre For Modern Languages

My Profile



Dr. Azwin Arif bin Abdul Rahim

ariftesl@umpssa.edu.my

012-3060590

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

Centre For Modern Languages

My Profile



Dr. Rohana binti Hamzah

rohanahamzah@umpssa.edu.my

019-7515516

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

Centre For Human Sciences

My Profile





Associate Professor Dr. Cheng Jack Kie

jackkie@umpssa.edu.my

012-2666053

A New System Dynamics Model to Assess the Interconnectivity and Interrelationship Between Different Knowledge Areas in Project Management Body of Knowledge.

Faculty of Industrial Management

My Profile



Ts. Dr. Lee Khai Loon

leekhailoon@umpssa.edu.my

012-4731081

A Cross Industry and Education Study for Professional Development in Malaysia.

Faculty of Industrial Management

My Profile



Dr. Wan Norfazilah binti Wan Ismail

norfazilah@umpssa.edu.my

012-4731081

Assessing the Effectiveness of Laboratory Quality Management Learning Through a Board Game-Based Approach.

Faculty of Industrial Sciences and Technology

My Profile



Dr. Khairiah binti Mohd Mokhtar

khairiahmm@umpssa.edu.my

017-6806917

Nurturing chemical safety management for laboratory personnel.

Faculty of Industrial Sciences and Technology

My Profile





Associate Professor Ts. Dr. Khairil Azman bin Masri

khairilazman@umpsa.edu.my

011-19346422

The Implementation Of Complex, Broadly Defined And Well-Defined Engineering Problems For Civil Engineering Related Programmes

Faculty of Civil Engineering Technology

My Profile





Associate Professor Dr. Irene Ting Wei Kiong

irene@umps.edu.my

017-9868819

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

Faculty of Industrial Management

My Profile



Associate Professor Dr. Mohd Ridzuan bin Darun

mridzuand@umps.edu.my

016-6693267

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

Faculty of Industrial Management

My Profile



Dr. Norwazli binti Abdul Wahab

norwazli@umps.edu.my

019-2482419

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

Faculty of Industrial Management

My Profile



Dr. Noraina Mazuin binti Sapuan

noraina@umps.edu.my

010-6550312

The Integration Of Digital Financial Capabilities And FINTECH Among Micro-Entrepreneur In The East Coast Malaysia.

Faculty of Industrial Management

My Profile





Associate Professor Dr. Mahyuddin bin Ismail

mahyuddin@umpsa.edu.my

019-9800573

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, Selangor.

Centre for Human Sciences

My Profile



Associate Professor Dr. Mansor bin Sulaiman

mansor@umpsa.edu.my

019-3380432

Modeling A Fundamental Of Islamic Finance System Based On Maqasid Al-Shari`Ah

Centre for Human Sciences

My Profile



Dr. Ahmad Irfan bin Ikmal Hisham

irfan@umpsa.edu.my

012-9787895

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

Centre for Human Sciences

My Profile



Dr. Mohamad Hilmi bin Mat Said

hilmi@umpsa.edu.my

013-928774

Kajian Keabsahan Batu Nisan Permatang Pasir Bukti Kedatangan Terawal Islam.

Centre for Human Sciences

My Profile





Dr. Noraina Mazuin binti Sapuan

noraina@umpsa.edu.my

010-6550312

DEVELOPING PERFORMANCE MEASUREMENT MODEL
FOR HEALTHCARE WAQF INSTITUTIONS.

Faculty of Industrial Management

My Profile



Professor Dr. Muhammad Nubli bin Abdul Wahab

nubli@umpsa.edu.my

012-9683117

Human Performance | bouth Development | Syariah |
Biofeedback/Brainfeedback | Soft Skills

Centre for Human Sciences

My Profile



Professor Dr. Hasan bin Ahmad

hasanahmad@umpsa.edu.my

019-9550139

Civilizational studies

Centre for Human Sciences

My Profile



Associate Professor Dr. Jamal Rizal bin Razali

jamalrizal@umpsa.edu.my

019-9322292

Sosiolinguistik | Linguistik Kognitif | Dialektologi | Semantik
Leadership | Linguistik Melayu

Centre for Human Sciences

My Profile





Dr. Munira binti Abdul Razak

munira@umpsa.edu.my

012-3880277

Human Sciences | Political Sciences | Administrative Science
| Human Development | Adult Education

Centre for Human Sciences

My Profile



Dr. Mohd Rahimi bin Ramli

rahimiramli@umpsa.edu.my

017-9061934

Sosiologi Politik | Pengajian Etnik | Pembangunan Komuniti

Centre for Human Sciences

My Profile



Dr. Hasnah binti Hussiin

hasnah@umpsa.edu.my

018-3936064

Negeri Sabah : Isu-Isu Mengenai Kedudukan Dan Kedaulatan
Dalam Persekutuan Malaysia

Centre For Human Sciences

My Profile



Dr. Muhammad Khalis bin Ibrahim

Khalis@umpsa.edu.my

014-7248851

Turkish Studies; Modern Muslim Political Thoughts; Islamic
Movement | Islamism | Political Islam; Modern Islamic
History and Civilization

Centre for Human Sciences

My Profile





Dr. Abdul Kamil bin Jamaludin

adbulkamil@umpsa.edu.my

012-2963721

Islamic Studies | Arabic Language | Modern Islamic
Thought | Classical Islamic Thought

Centre for Human Sciences

My Profile



Dr. Ahmad Muhaimin bin Mohamad

amuhaimin@umpsa.edu.my

019-9679043

Pendidikan | Soft skills | Human development | Instructional
design and technology

Centre for Human Sciences

My Profile



Ahmad bin Ibrahim

ahmadbi@umpsa.edu.my

019-3732166

Political Science | Malaysian Leadership | Public Policy

Centre for Human Sciences

My Profile



Mohd Azam bin Muhammad Akhir

azam@umpsa.edu.my

019-9703770

Politic | Ethic | Malaysian Study | Ethnic Study

Centre for Human Sciences

My Profile





Wan Nazrul Helmy bin Wan Mohd Azin

nazrulhelmy@umpsa.edu.my

013-3526352

Ethics | Governance | Leadership | Monarchy | Policy and
Government | Legal History

Faculty of Industrial Management

My Profile



Dr. Tuan Sidek bin Tuan Muda

sidek@umpsa.edu.my

013-3374911

Pembinaan Standard Silibus Pengajaran Fiqh Berintegrasi
Maqasid Syariah Di Maahad Tahfiz

Centre For Human Sciences

My Profile



Dr. Anita binti Abdul Rani

anita@umpsa.edu.my

019-9875627

Kajian Tinjauan Kefahaman Akidah Ahli Sunnah Wal Jamaah
Dalam Kalangan Mahasiswa Institusi Pengajian Tinggi (IPT) Di
Negeri Pahang

Centre For Human Sciences

My Profile



Dr. Asar bin Abdul Karim

asar@umpsa.edu.my

013-9231974

Modul Pendigitilan Jāwī Dan Transliterasi Bahasa Arab Di
Kalangan Pelajar Dan Pensyarah UNIPSAS.

Centre For Human Sciences

My Profile





Associate Professor Dr. Rashidi bin Abbas

rashidi@umpsa.edu.my

019-6562783

Kajian Pencapaian Pembelajaran Tahfiz Dan Hubungan Dengan
Kemudahan Infrastruktur Maahad Tahfiz Di Negeri Pahang

Centre For Human Sciences

My Profile



Dr. Mohd Suhardi bin Mat Jusoh

suhardi@umpsa.edu.my

012-9520530

Pemeriksaan Program Pengimaran Masjid Negeri Pulau
Pinang Dalam Pembangunan Islam Kontemporari

Centre For Human Sciences

My Profile





Professor Dr. Muhammad Nubli bin Abdul Wahab

nubli@umpsa.edu.my

012-9683117

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

Centre For Human Sciences

My Profile



Professor Dr. Hasan bin Ahmad

hasanahmad@umpsa.edu.my

019-9550139

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

Centre For Human Sciences

My Profile



Mejar Dr. Imaduddin bin Abidin

imaduddin@umpsa.edu.my

013-9284224

Predicting E-Government Acceptance Among Pahang
State Government Servants.

Faculty of Industrial Management

My Profile



Dr. Mohamad Reeduan bin Mustapha

reeduan@umpsa.edu.my

019-9522678

IR 4.0 Adoption: Challenges And Drivers Of
Implementation For Micro And Small Enterprises(MSES)
In Southeast Asia

Faculty of Industrial Management

My Profile





Dr. Ruhil Amal binti Azmuddin

ruhilamal@umpsa.edu.my

017-2242545

Impact of Health Literacy and Clinical Intervention on Periodontal Status of Patients with and at Risk of Diabetes Mellitus.

Centre For Modern Languages

My Profile



Ahmad bin Ibrahim

ahmadbi@umpsa.edu.my

09-4316669

Keunikan Zapin Dan Pantun Warisan Pahang.

Centre For Human Sciences

My Profile



Dr. Ahmad Muhaimin bin Mohamad

amuhaimin@umpsa.edu.my

019-9679043

Pembangunan Kerangka Kerja Program Sokongan Psikologi Dalam Talian (PSPDT).

Centre For Human Sciences

My Profile



Dr. Mohd Rahimi bin Ramli

rahimiramli@umpsa.edu.my

017-9061934

Pengaruh Sosialisasi Politik Terhadap Orientasi Dan Tingkah Laku Politik Mahasiswa Di Universiti Awam.

Centre For Human Sciences

My Profile





Mohd Azam bin Muhammad Akhir

azam@umpsa.edu.my

019-9703770

Jejak Warisan Silat Menyusuri Sungai Pahang

Centre For Human Sciences

My Profile



Dr. Munira binti Abdul Razak

munira@umpsa.edu.my

012-3880277

Dasar & Pelan Tindakan Wanita Pahang 2022-2026

Centre For Human Sciences

My Profile



Dr. Anita binti Abdul Rani

anita@umpsa.edu.my

019-9875627

Hubungan Antara Kebersyukuran Dan

Kesejahteraan Subjektif Pelajar B40 Di IPT Malaysia

Melalui Perantara Ketahanan Diri

Centre For Human Sciences

My Profile



Ahmad Fazullah bin Mohd Zainal Abidin

fazullah@umpsa.edu.my

0183610203

Emosi Manusia Dalam Menghadapi Situasi Tertentu

Kehidupan: Analisis Tematik Dan Wacana Kritis Dari

Sudut Psikologi Islam Dan Retorik Al-Quran

Centre For Human Sciences

My Profile





Haslinda @ Robita binti Hashim

haslinda@umpsa.edu.my

0122949091

Development And Validation Of Resilient Student
Leadership Model For Malaysian University Students

Centre For Human Sciences

[My Profile](#)



Dr. Hadijah binti Ahmad

hadijah@umpsa.edu.my

010-4327141

Institutional Transformation : A Leadership Perspectives From
A High-Ranking Leader In The Private Higher Education
Institution

Centre For Human Sciences

[My Profile](#)



Dr. Fatmawati binti Latada

fatma@umpsa.edu.my

019-2286379

Employing Project Oriented Problem Based Learning Module
To Enhance Level Of Self-Esteem And Motivation To Transfer
Training Among Institutionalized Orphans Around Kuantan

Centre For Human Sciences

[My Profile](#)



Dr. Noradilah binti Md Nordin

noradilah@umpsa.edu.my

017-7724586

Development Of Student Personality Instrument For Student
Profiling Framework At Universiti Malaysia Pahang

Centre For Human Sciences

[My Profile](#)





Dr. Hasmadi bin Hassan

hasmadi@umpsa.edu.my

012-7950285

Kesediaan E-Pembelajaran Dari Aspek Sikap, Literasi, Fasilitas Dan Akses Teknologi Dalam Kalangan Pelajar-Pelajar Sekolah Di Negeri Pahang

Centre For Human Sciences

My Profile



Ts. Dr. Azizan bin Ramli

azizanramli@umpsa.edu.my

019-9881726

Program Latihan Penyelaras Dan Pembangunan Sistem Asas Keselamatan Dan Kesihatan Pekerjaan Di Sekolah-Sekolah Aliran Agama Di Negeri Pahang.

Faculty of Industrial Sciences and Technology

My Profile



Dr. Mirta Widia

mirta@umpsa.edu.my

016-2378749

Ergonomic Risk Assessment in Dairy Plant

Faculty of Industrial Sciences and Technology

My Profile





**Associate Professor Dr. Nik Aloesnita binti
Nik Mohd Alwi**

aloesnita@umpssa.edu.my

011-65658717

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

Centre For Modern Languages

[My Profile](#)



Associate Professor Dr. Jamal Rizal bin Razali

jamalrizal@umpssa.edu.my

019-9322292

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

Centre For Human Sciences

[My Profile](#)



Professor Dr. Hasan bin Ahmad

hasanahmad@umpssa.edu.my

019-9550139

Arabic Language and Medieval Arabic Literature

Centre For Human Sciences

[My Profile](#)



Dr. Nor Yazi binti Khamis

nyazi@umpssa.edu.my

012-2039112

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

Centre For Modern Languages

[My Profile](#)





Dr. Fatimah binti Ali

tym@umpssa.edu.my

011-65658717

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

Centre For Modern Languages

My Profile



Dr. Wan Jumani binti Fauzi

jumani@umpssa.edu.my

012-644 3701

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

Centre For Modern Languages

My Profile



Dr. Asiah binti Kassim

asiah@umpssa.edu.my

013-386 7137

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

Centre For Modern Languages

My Profile



Dr. Abdul Kamil bin Jamaludin

abdulkamil@umpssa.edu.my

012-2963721

Arabic Language

Centre For Human Sciences

My Profile





Khairul Bahri bin Abdul Samad

khairulbahri@umpsa.edu.my

010-9141850

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

Centre For Modern Languages

My Profile



Rosnani binti Ismail

rosnani@umpsa.edu.my

019-9867879

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

Centre For Modern Languages

My Profile



Azimah binti Ahmad Zaki

Azimahaz@umpsa.edu.my

013-2227083

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

Centre For Modern Languages

My Profile



Zarina Mohd binti Ali

zarina@umpsa.edu.my

012-3310492

Self-Profiling Exercise of Student Leadership Practices
Inventory (SLPI) among University Malaysia Pahang

Centre For Modern Languages

My Profile





Dr. Azwin Arif bin Abdul Rahim

ariftesl@umpsa.edu.my

012-3060590

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

Centre For Modern Languages

My Profile



Ezihaslinda binti Ngah

ezi@umpsa.edu.my

013-9339776

Development Ump English Language Proficiency Test (UMP-ELPT).

Centre For Modern Languages

My Profile



Siti Norzaimalina binti Abd Majid

norzaimalina@umpsa.edu.my

012-7281587

Virtual Reality Teaching Approach In Reading Classroom.

Centre For Modern Languages

My Profile



Associate Professor Dr Hafizoah binti Kassim

hafizoah@umpsa.edu.my

019-3367005

Assessment Modelling for Creativity Enhancement and Cognitive Load Management in Technical Writing

Centre for Modern Languages

My Profile





Associate Professor Dr. Noor Raha binti Mohd Radzuan

nraha@umpsa.edu.my

019-5766 145

Developing a CEFR-informed English Language Competency Framework for Preschool Educators in the East Coast Economic Region

Centre For Modern Languages

My Profile



Associate Professor Dr. Zuraina binti Ali

zuraina@umpsa.edu.my

012-9676507

Supporting Graduate Employability: Determinant of English Language Needs in The Industrial Sectors

Centre For Modern Languages

My Profile



Dr. Abdullah Adnan bin Mohamed

adnan@umpsa.edu.my

019-3610044

Development of Rubrics for Digital Technical Oral Presentation (DTOP) in English Academic Purposes (EAP) Setting for UMP Graduates

Centre For Modern Languages

My Profile



Dr. Mohamad Musab Azmat Ali

mmusab@umpsa.edu.my

019-2064047

Developing a Module on the Awareness of Reproductive Health and HIV/ AIDS among Students of Higher Learning Institution

Centre For Modern Languages

My Profile





Dr Umi Kalson binti Masrom

umikalsom@umpsa.edu.my

019-9899074

Enhancing Learning Experience with Interactive Content:
Designing Job Application Skill Enhancement Activities Using
Moodle H5P

Centre For Modern Languages

My Profile

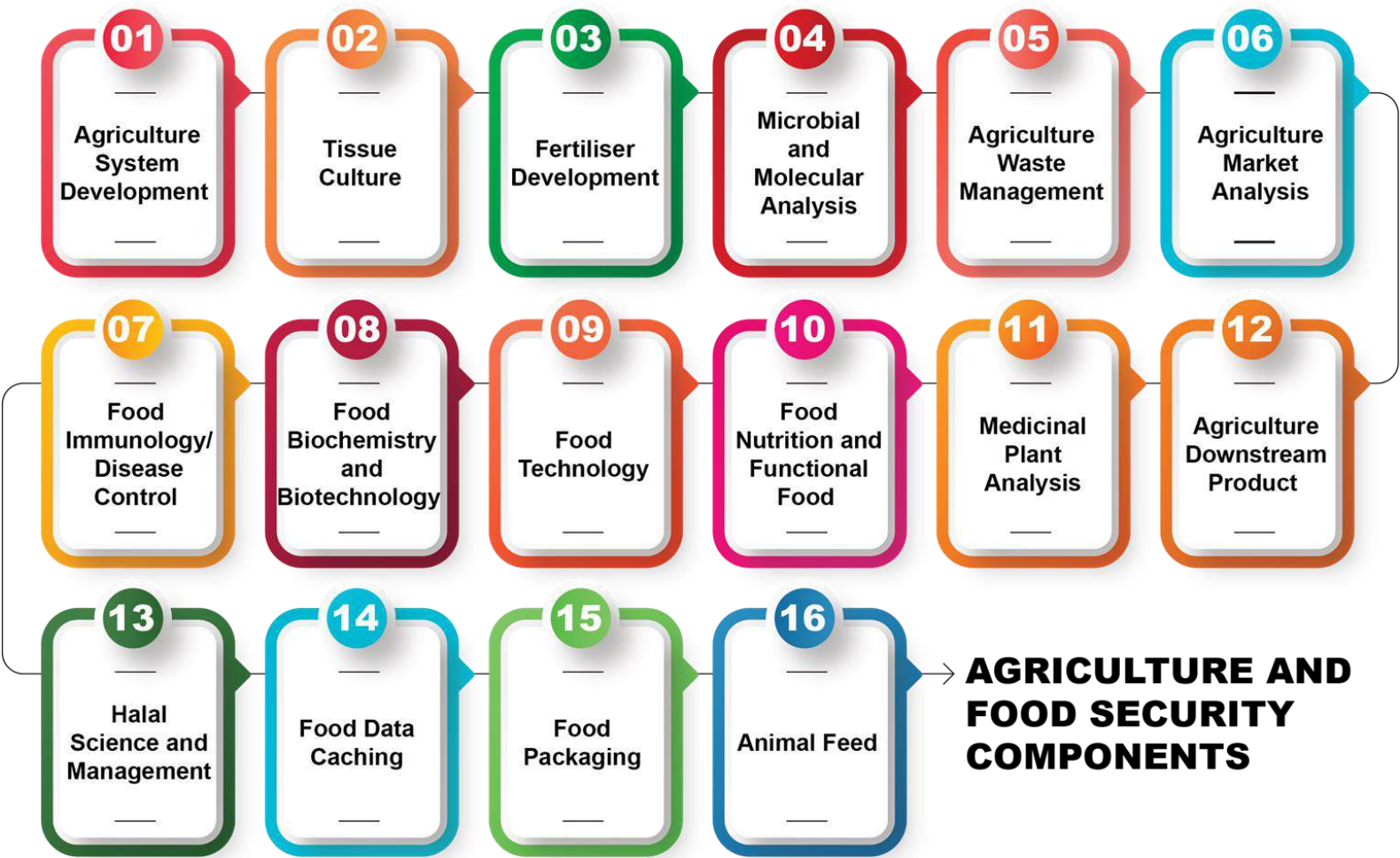




**AGRICULTURE
AND FOOD SECURITY**

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 UMP 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.





Associate Professor Dr. Mohd Fakhurrazi bin Ishak

fakhrurrazi@umpsa.edu.my

019-7177574

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

Faculty of Civil Engineering Technology

My Profile



Associate Professor Ir. Dr. Ngien Su Kong

nsukong@umpsa.edu.my

019-8243072

Formulation of a Baseline for Incorporation of Sewage
Treatment Plant Effluent in Aquaponics System

Faculty of Civil Engineering Technology

My Profile



Associate Professor Ts. Dr. Roshahliza binti M Ramli

roshahliza@umpsa.edu.my

012-2492703

IoT-Powered Solar Irrigation System for Oil-Palm
Prenursery

**Faculty of Electrical and Electronics Engineering
Technology**

My Profile



Dr. Nor Hanuni binti Ramli @ Said

drhanuni@umpsa.edu.my

012-3024184

UMP Model Farm: Fertigation Economic Driven

Faculty of Chemical and Process Engineering Technology

My Profile





Dr. Erny Afiza binti Alias

erny@umpsa.edu.my

011-10202303

Microbubbles Generator for Agriculture

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Ts. Dr. Mohamed Reza Zalani bin Mohamed Suffian

mdreza@umpsa.edu.my

0135424268

Automated Lock and Unlock System Device of Fruit
Refrigerator for Grocery Sales

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Ts. Dr. Rohana binti Abdul Karim

rohanaak@umpsa.edu.my

013-9300982

Non-Destructive Test of Pineapple Maturity Using Vision System

Faculty of Electrical and Electronics Engineering Technology

My Profile



Associate Professor Ts. Dr. Amir bin Abdul Razak

amirrazak@umpsa.edu.my

013-3461028

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

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile





Professor Ir. Dr Mohd Faizal bin Jamlos

faizaljamlos@umpsa.edu.my

012-7001248

E-Lobster: Smart Water Quality System With Stream Data
Analytics For Fresh Water Lobster Commercial Farming

Faculty of Electrical and Electronics Engineering Technology

My Profile



Associate Professor Ts. Dr. Roshahliza binti M Ramli

roshahliza@umpsa.edu.my

012-2492703

Development Of Solar Operated Portable Water Pump For
Agriculture Activities

Faculty of Electrical and Electronics Engineering Technology

My Profile





Associate Professor Dr. Tan Suat Hian

tshian@umpsa.edu.my

018-2779888

Mass Propagation on Pisang Lang and Pisang Tanduk

Faculty of Industrial Sciences and Technology

My Profile



Dr. Siti Hajar Noor binti Shaarani

hajarnoor@umpsa.edu.my

017-5174452

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

Faculty of Chemical and Process Engineering Technology

My Profile





Associate Professor Dr. Suriati binti Ghazali

suriati@umpsa.edu.my

019-5700317

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Dr. Nina Suhaity binti Azmi

nina@umpsa.edu.my

012-7980497

Kleva Bio Fertilizer Plus +

Faculty of Industrial Sciences and Technology

My Profile



Ts. Dr. Ros Azlinawati binti Ramli

azlinawati@umpsa.edu.my

014-9664254

Scaling Up Production Of Biodegradable Hydrogel/NPK In 50L Pilot Reactor For Agriculture Applications

Faculty of Industrial Sciences and Technology

My Profile



Dr. Noormazlinah binti Ahmad

mazlinah@umpsa.edu.my

013-9832041

Hydroponics And Aquaponics with Aiot in Qatar (Haiat)

Faculty of Chemical and Process Engineering Technology

My Profile





Associate Professor Dr. Rohaida binti Che Man

rohaida@umpsa.edu.my

012-9472376

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

Faculty of Chemical and Process Engineering Technology

My Profile





Associate Professor Dr. Aizi Nor Mazila binti Ramli

aizinor@umpsa.edu.my

016-9210232

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Lee Chin Mei

lcmei@umpsa.edu.my

019-7443648

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Siti Hajar Noor binti Shaarani

hajarnoor@umpsa.edu.my

017-5174452

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

Faculty of Chemical and Process Engineering Technology

My Profile



Ts. Dr. Hajar Fauzan bin Ahmad

fauzanahmad@umpsa.edu.my

013-8160272

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

Faculty of Industrial Sciences and Technology

My Profile





Dr. Nurashikin binti Yaacof

nurashikin@umpsa.edu.my

016-7026904

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

Faculty of Civil Engineering Technology

My Profile



Professor Dato' Ts. Dr. Zularisam bin Ab Wahid

zularisam@umpsa.edu.my

012-7575476

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

UMPSA World's Top 2% Scientist

Faculty of Civil Engineering Technology

My Profile





Ts. Dr. Nurzety Aqtar binti Ahmad Azuan

aqtar@umpsa.edu.my

012-2840027

A Noble Knowledge Management Framework For
Agriculture Industries In Malaysia

Faculty of Computing

My Profile



Dr. Fatimah Binti Mahmud

fatimahm@umpsa.edu.my

019-2828011

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

Faculty of Industrial Management

My Profile





Associate Professor Dr. Aizi Nor Mazila binti Ramli

aizinor@umpsa.edu.my

016-9210232

Ananaspro: Green Detergent From Pineapple

Byproducts

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Dr. Wan Mohd Hafizuddin bin Wan Yussof

hafizuddin@umpsa.edu.my

019-9851850

Optimization Of Acid Pretreatment Of Lignocellulosic

Biomass For Xylooligosaccharides Production

Faculty of Chemical and Process Engineering Technology

My Profile



Professor Dr. Saiful Nizam bin Tajuddin

saifulnizam@umpsa.edu.my

019-9894742

Development Of Cocoa Leaves As Potential Source Of

Health Beverage (Green Tea)

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Ts. Dr. Mior Ahmad Khushairi bin Mohd Zahari

ahmadkhushairi@umpsa.edu.my

014-8290960

Fundamental Study On The Reaction Mechanisms And Kinetics

Of Biobutanol Production From Oil Palm Frond Juice In A

Stirred Tank Bioreactor

Faculty of Chemical and Process Engineering Technology

My Profile





Associate Professor Ir. Dr Norazwina binti Zainol

azwina@umpsa.edu.my

019-2719331

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

Faculty of Chemical and Process Engineering Technology

My Profile



Ts. Dr. Nasratun binti Masngut

nasratun@umpsa.edu.my

012-3041935

Ferulic Acid Production From Banana Stem Waste Using
Mechanical Extraction

Faculty of Chemical and Process Engineering Technology

My Profile



Dr. Shalyda binti Md Shaarani@Md Nawi

shalyda@umpsa.edu.my

019-4817883

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

**Faculty of Chemical and Process Engineering
Technology**

My Profile





Professor Ts. Dr. Jolius bin Gimbut

jolius@umpsa.edu.my

012-6512908

Effect Of Auxiliary Energy On The Yield Of Polyphenols
Extraction From Andrographis Paniculata

Faculty of Chemical and Process Engineering Technology

My Profile



Professor Dr. Abdurahman Hamid Nour

abrahman@umpsa.edu.my

012-9134403

Charaterization Of Bioactive Compounds Extracted From
Bitter Leaf (Vernonia Amygdalina) Using Soxhlet And
Microwave Assisted Methods

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Dr. Hazrulrizawati binti Abd Hamid

hazrulrizawati@umpsa.edu.my

019-7778603

Formulation Of Microemulsion Containing C.Nutans
Extract For Topical Antifungal Therapy

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Dr. Siti Kholijah binti Abdul Mudalip

kholijah@umpsa.edu.my

012-5662739

Mechanism Of Self-Diffusion And Molecular Recognitions
Of Mahkota Dewa (Phaleria Macrocarpa) Active
Ingredients In Green Solvents Extraction Process

Faculty of Chemical and Process Engineering Technology

My Profile





Dr. Normaiza binti Zamri

maiza@umpsa.edu.my

018-9593641

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Mazita binti Mokhtar

mazita@umpsa.edu.my

019-9121068

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

Faculty of Industrial Management

My Profile



Dr. Noormazlinah binti Ahmad

mazlinah@umpsa.edu.my

013-9832041

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

Faculty of Chemical and Process Engineering Technology

My Profile



Dr. Mohd Amir Shahlan bin Mohd Aspar

amirs@umpsa.edu.my

0129940045

Identification on the Factors That Contribute to the Presence of Antibacterial Properties in Malaysian Kelulut, Tualang and Accia Honey Againsts Wound Infectious Bacteria

Faculty of Electrical and Electronics Engineering Technology

My Profile





Dr. Siti Umairah binti Mokhtar

umairah@umpsa.edu.my

016-7025031

Chemical profiling of ziziphus mauritiana leaves extract
and study the structure characterization of new active
compounds with its pharmacological activities

Faculty of Industrial Sciences and Technology

My Profile





Associate Professor Dr. Jaya Vejayan Palliah

jayavejayan@umpsa.edu.my

016-6063804

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Nazikussabah binti Zaharudin

nazikussabah@umpsa.edu.my

011-33938518

Effect of Drying Methods on Nutrient Composition and Physicochemical Properties of Malaysian Seaweeds

Determination of Proximate Composition of Malaysian Horseshoe Crab (*Tachypleus gigas*)

Faculty of Industrial Sciences and Technology

My Profile



Dr. Nor Adila binti Mhd Omar

nadila@umpsa.edu.my

012-5754767

Bioactive compounds of plants carbohydrate quality and immunomodulatory

Faculty of Industrial Sciences and Technology

My Profile



Dr. Hong Pui Khoon

hongp@umpsa.edu.my

017-9642839

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

Faculty of Industrial Sciences and Technology

My Profile





Associate Professor Dr. Hazrulrizawati binti Abd Hamid

hazrulrizawati@umpsa.edu.my

019-7778603

Elucidating The Potential Citrus Peel Waste As
Nutritional-Enriched Functional Food Ingredient,
Physicochemical And Shelf-Life Characterization

Faculty of Industrial Sciences and Technology

My Profile





Associate Professor Ir. Ts. Dr. Wan Sharuzi bin Wan Harun

sharuzi@umpsa.edu.my

019-9590039

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

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Ts. Dr. Rohana binti Abdul Karim

rohanaak@umpsa.edu.my

013-9300982

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

**Faculty of Electrical and Electronics Engineering
Technology**

My Profile



Associate Professor Dr. Mohamad Firdaus bin Basrawi

mfirdausb@umpsa.edu.my

019-9591819

A Study On Distributor Design For Swirling Fluidized Bed
Drying Of Stingless Bees Pot-Pollen

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile



Dr. Mohd Azraai bin Mohd Razman

mohdazraai@umpsa.edu.my

017-6454151

The Formulation Of Deep Learning For The Classification Of
Fish Growth Detection

**Faculty of Manufacturing and Mechatronic Engineering
Technology**

My Profile





Associate Professor Dr. Aizi Nor Mazila binti Ramli

aizinor@umpsa.edu.my

016-9210232

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Shariza binti Jamek

sharizaj@umpsa.edu.my

019-6993107

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Noor Suhana binti Adzahar

nsuhana@umpsa.edu.my

019-4495477

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Rozaimi bin Abu Samah

rozaimi@umpsa.edu.my

013-7745183

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

Faculty of Chemical and Process Engineering Technology

My Profile





Dr. Ahmad Mahfuz bin Gazali

mahfuz@umpsa.edu.my

013-6399697

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

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Dr. Norhayati binti Rosli

norhayati@umpsa.edu.my

019-9544531

Stochastic Modelling of the Covid – 19 Outbreak Under Non -
pharmaceutical Intervention (NPI) Enforcement.

Centre for Mathematical Sciences

My Profile



Ts. Dr. Norazaliza binti Mohd Jamil

norazaliza@umpsa.edu.my

013-7407016

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

Centre for Mathematical Sciences

My Profile





Associate Professor Dr. Jaya Vejayan Palliah

jayavejayan@umpsa.edu.my

016-6063804

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

Faculty of Industrial Sciences and Technology

My Profile



Associate Professor Ts. Dr. Farhan binti Mohd Said

farhan@umpsa.edu.my

017-2791038

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Dr. Fatmawati binti Adam

fatmawati@umpsa.edu.my

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

Faculty of Chemical and Process Engineering Technology

My Profile





Associate Professor Dr. Jaya Vejayan a/I Palliah

jayavejayan@umpsa.edu.my

016-6063804

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Noor Suhana binti Adzahar

nsuhana@umpsa.edu.my

019-4495477

Development of Microbiological Testing Procedure for
Edible Gelatine

Faculty of Industrial Sciences and Technology

My Profile



Dr. Nazikussabah binti Zaharudin

nazikussabah@umpsa.edu.my

011-33938518

Physical and Chemical Testing of Gelatine Protein
Products

Faculty of Industrial Sciences and Technology

My Profile



Dr. Hong Pui Khoon

hongp@umpsa.edu.my

017-9642839

Extraction of Halal Gelatin from Bovine Bones

Faculty of Industrial Sciences and Technology

My Profile





Associate Professor Dr. Mohd Ridzuan bin Darun

mridzuand@umpsa.edu.my

016-6693267

Improving the Integrity of Halal Supply Chain Management
through Blockchain Technology

Faculty of Industrial Management

My Profile



Dr. Mohamad Hilmi bin Mat Said

hilmi@umpsa.edu.my

013-9287274

Membangunkan Kit Maklumat Halalan Tayyiba (Developing
Information Kit)

Centre for Human Sciences

My Profile



Dr. Mazita binti Mokhtar

mazita@umpsa.edu.my

019-9121068

Organizational Innovativeness Among Model of Success
SMEs in Malaysia Halal Industry

Faculty of Industrial Management

My Profile



Professor Dr. Hasan bin Ahmad

hasanahmad@umpsa.edu.my

019-9550139

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

Centre for Human Sciences

My Profile





Dr. Tuan Sidek bin Tuan Muda
sidek@umpsa.edu.my
013-3374911
Maqasid Syariah And Halal Studies
Centre for Human Sciences

My Profile





Ts. Dr. Fauziah binti Zainuddin

fauziahz@umpsa.edu.my

016-8182575

Modelling and Simulation for Quick Steam Food
Processing in Vending Machine

Faculty of Computing

My Profile



Ts. Dr. Rozlina binti Mohamed

rozlina@umpsa.edu.my

019-9422871

Food Chain on Database and Ontology (Food
Traceability)

Faculty of Computing

My Profile





Associate Professor Ts. Dr. Saidatul Shima binti Jamari

sshima@umpsa.edu.my

017-8123278

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Ts. Dr. Nurul Aini binti Mohd Azman

ainiazman@umpsa.edu.my

013-3330766

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

Faculty of Chemical and Process Engineering Technology

My Profile



Dr. Sureena binti Abdullah

sureena@umpsa.edu.my

013-9862161

Formulation of Food Packaging from Palm Oil Waste Cellulose

Faculty of Chemical and Process Engineering Technology

My Profile





Dr. Nazikussabah binti Zaharudin

nazikussabah@umpsa.edu.my

011-33938518

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Nor Hanuni binti Ramli @ Said

drhanuni@umpsa.edu.my

012-3024184

The effect of Protein Composition on the Properties of Fish Pellet

Faculty of Chemical and Process Engineering Technology

My Profile



Ts. Dr. Shalyda binti Md Shaarani@Md Nawi

shalyda@umpsa.edu.my

019-4817883

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

Faculty of Chemical and Process Engineering Technology

My Profile

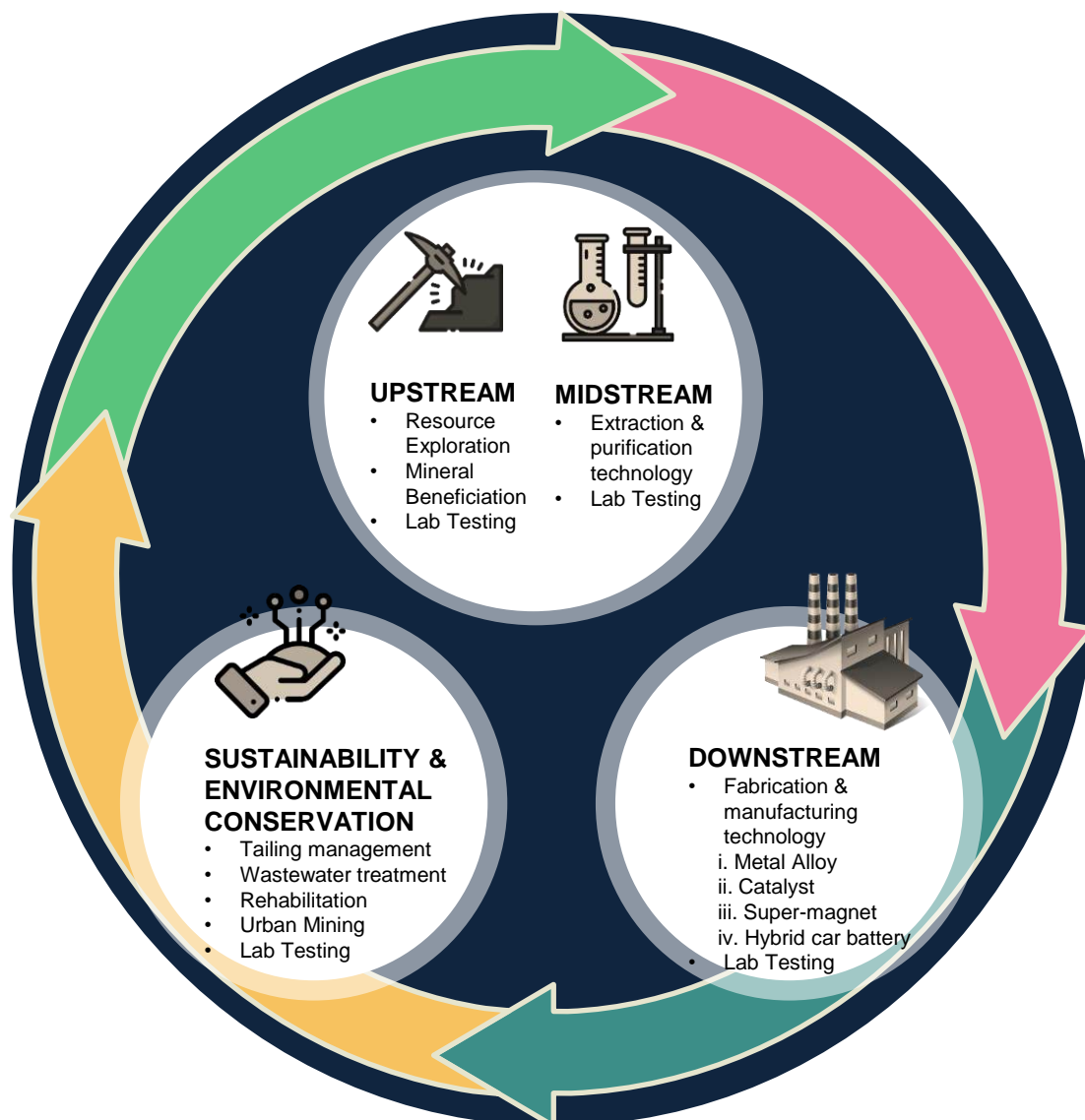




**RARE EARTH
MINERAL**

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**.





Associate Professor Dr. Mohd Fakhrurrazi bin Ishak

fakhrurrazi@umpsa.edu.my

019-7177574

Location And Modelling To Determine Potential Ore Body
On Secondary Deposit

Faculty of Civil Engineering Technology

My Profile



Associate Professor Dr. Mazrul Nizam bin Abu Seman

mazrul@umpsa.edu.my 019-6241335

Concentration Of Rare Earth Elements From A Simulated Tin
Tailing Via Thin Film Composite Forward Osmosis Membrane

Faculty of Chemical and Process Engineering Technology

My Profile



Professor Ts. Dr. Sumaiya binti Zainal Abidin@Murad

sumaiya@umpsa.edu.my

019-5664177

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Ts. Dr. Mohd Yusri bin Mohd Yunus

yusri@umpsa.edu.my

017-8121977

Extraction Of Erbium And Ruthenium From Leaching
Concentrate

Faculty of Chemical and Process Engineering Technology

My Profile





Dr. Wan Hanisah binti Wan Ibrahim

anisah@umpsa.edu.my

019-9782800

Modelling And Simulation Of Separation Sequence Of Rare Earth Elements

Faculty of Chemical and Process Engineering Technology

My Profile



Ts. Dr. Noorlisa binti Harun

noorlisa@umpsa.edu.my

019-9708277

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

Faculty of Chemical and Process Engineering Technology

My Profile





Professor Dr. Jose Rajan

rjose@umpssa.edu.my

016-9620388

Metal Oxide Semiconducting Hole Transport Materials For
Stable Perovskite Solar Cells

UMPSA World's Top 2% Scientist

Faculty of Industrial Sciences and Technology

My Profile



Professor ChM. Dr. Chong Kwok Feng

ckfeng@umpssa.edu.my

017-7110262

Evaluation Of The Ce-Based Materials As F Ions Removal

UMPSA World's Top 2% Scientist

Faculty of Industrial Sciences and Technology

My Profile



Dr. Rodziah binti Nazlan

rodziah@umpssa.edu.my

012-2394504

Intensive Exploratory of Microwave, Electrical and Magnetic
Properties of Magnetic Garnet Type Ferrites for Development
of High-Frequency Antenna Applications

Faculty of Industrial Sciences and Technology

My Profile



Dr. Jun Haslinda binti Haji Shariffuddin

junhaslinda@umpssa.edu.my

016-9801406

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

Faculty of Chemical and Process Engineering Technology

My Profile





Professor Ts. Dr. Gaanty Pragas a/I Maniam

gaanty@umpsa.edu.my

016-4110236

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

Faculty of Industrial Sciences and Technology

My Profile



Ts. Dr. Muhammad Hafiz bin Mazwir

muhammadhafiz@umpsa.edu.my

016-2185851

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Sureena binti Abdullah

sureena@umpsa.edu.my

013-9862161

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

Faculty of Chemical and Process Engineering Technology

My Profile



Dr Asmida binti Ideris

asmida@umpsa.edu.my

019-7571404

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

Faculty of Chemical and Process Engineering Technology

My Profile





Associate Professor Dr. Mohd Yuhyi bin Mohd Tadza

dryuhyi@umpsa.edu.my

019-7552500

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

Faculty of Civil Engineering Technology

My Profile



Associate Professor Ts. Dr. Muzamir bin Hasan

muzamir@umpsa.edu.my

012-7480820

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

Faculty of Civil Engineering Technology

My Profile



Associate Professor Ts. Dr. Mohd Yusri bin Mohd Yunus

yusri@umpsa.edu.my

017-8121977

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Dr. Mohd Fakhrurrazi bin Ishak

fakhrurrazi@umpsa.edu.my

019-7177574

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

Faculty of Civil Engineering Technology

My Profile





Ts. Dr. Abdul Halim bin Abdul Razik

abdhalim@umpsa.edu.my

018-9114275

Development Of Optimal Supply Chain Model For Malaysian
Rare Earth Resources

Faculty of Chemical and Process Engineering Technology

My Profile



Dr. Mohd Aizudin bin Abd Aziz

maizudin@umpsa.edu.my

017-6142443

Investigation On Formulation Components Of Deployable
Grease From Industrial Waste Oil And Red Gypsum

Faculty of Chemical and Process Engineering Technology

My Profile



Ts. Dr. Nurmunira binti Muhammad @ Atan

muniramuhammad@umpsa.edu.my

018-9009926

The Sustainable Application of Gypsum and Demolished
Concrete Waste in the Peat Soil Stabilization of East Coast
Malaysia

Faculty of Civil Engineering Technology

My Profile

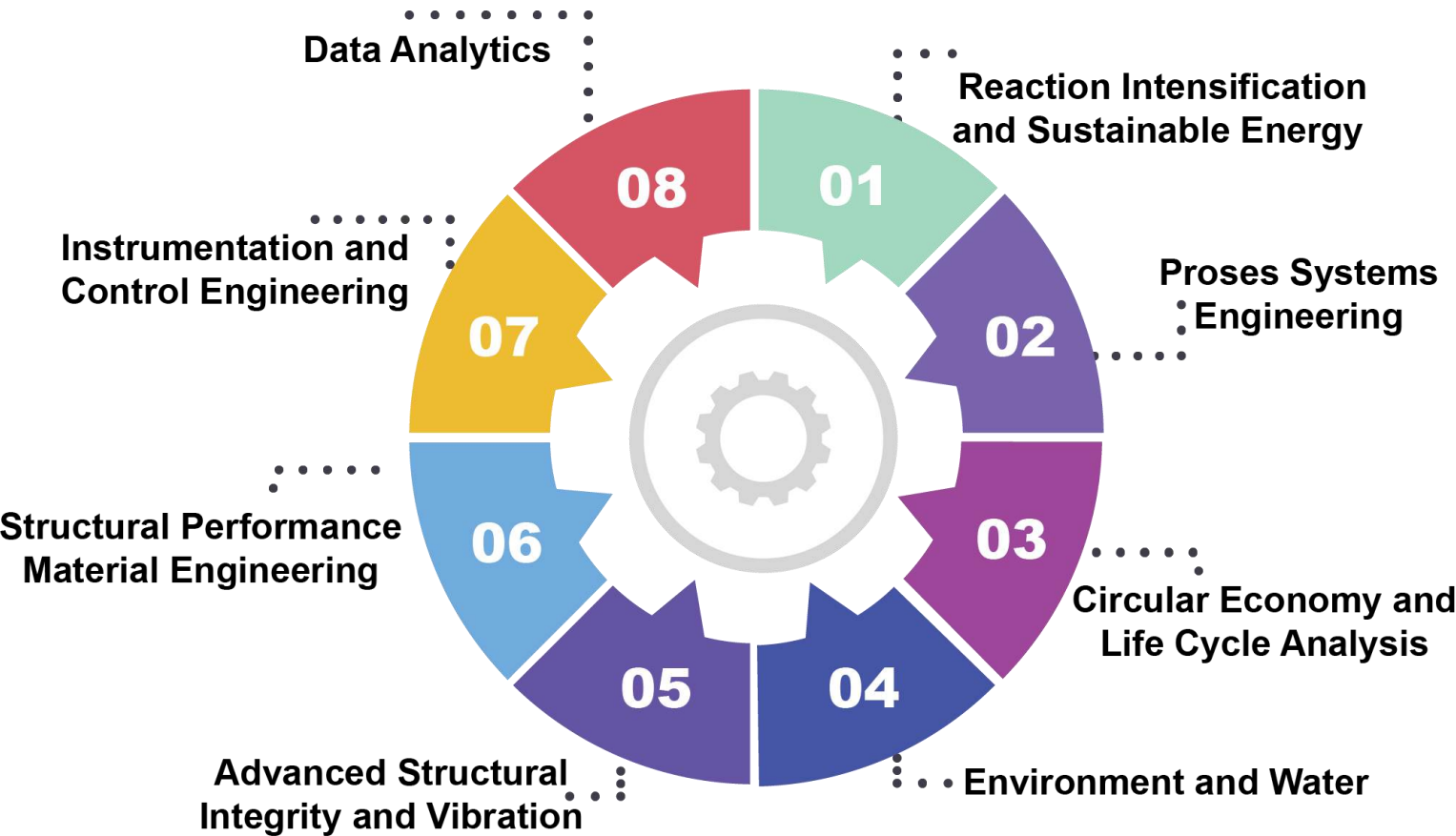


PETROCHEMICAL



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 UMP 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





Professor Ts. Dr. Sumaiya binti Zainal Abidin@Murad

sumaiya@umpsa.edu.my

019-5664177

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Ts. Dr. Rohayu binti Jusoh

rohayu@umpsa.edu.my

013-9094187

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Ts. Dr. Herma Dina binti Setiabudi

herma@umpsa.edu.my

012-7393471

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

Faculty of Chemical and Process Engineering Technology

My Profile



Professor Ir. Dr. Chin Sim Yee

chin@umpsa.edu.my

012-9638273

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

Faculty of Chemical and Process Engineering Technology

My Profile





Dr. Sureena binti Abdullah

sureena@umpsa.edu.my

013-9862161

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

Faculty of Chemical and Process Engineering Technology

My Profile



Dr. Mazni binti Ismail

mazni@umpsa.edu.my

013-9593067

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

Faculty of Chemical and Process Engineering Technology

My Profile



Ts. Dr. Suriyati binti Saleh

suriyati@umpsa.edu.my

018-2281611

Development Of Torrefied Pellet From Palm Oil Waste For Biofuel Production

Faculty of Chemical and Process Engineering Technology

My Profile



Dr. Hamidah binti Abdullah

hamidah@umpsa.edu.my

013-4281981

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

Faculty of Chemical and Process Engineering Technology

My Profile





Ir. Ts. Dr. Mohd Fadzil Ali bin Ahmad

fadzilali@umpsa.edu.my

013-3838312

Design Of A Deepwater Gas Pipelines Centrifuge Separator For Hydrate Formation Removal From Natural Gas Stream

Faculty of Manufacturing and Mechatronic Engineering Technology

My Profile



Dr. Abdul Halim bin Abdul Razik

abdhalim@umpsa.edu.my

018-9114275

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

Faculty of Chemical and Process Engineering Technology

My Profile



Dr. Nadiya binti Hj. Abd. Halim

nadiya@umpsa.edu.my

013-3372008

Quantitative Risk Assessment In Blending Unit Operation For V-Blender

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Ts. Dr. Liang Yong Yeow

yongyeow.liang@umpsa.edu.my

017-9539725

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

Faculty of Chemical and Process Engineering Technology

My Profile





Ahmad Basirul Subha bin Alias

subha@umpsa.edu.my

0199811474

Optical-based Method in Bolted Joint Pre-tensioning Analysis
and Efficiency

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile





Professor Dr. Yudi Fernando

yudi@umpsa.edu.my

019-5718008

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

UMPSA World's Top 2% Scientist

Faculty of Industrial Management

My Profile



Associate Professor Dr. Mohd Ridzuan bin Darun

mridzuand@umpsa.edu.my

016-6693267

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

Faculty of Industrial Management

My Profile



Dr. Nazira binti Mahmud

nazira@umpsa.edu.my

013-4270056

Environmental Lifecycle Assessment

Faculty of Industrial Sciences and Technology

My Profile



Dr. Noor Intan Shafinas binti Muhammad

shafinas@umpsa.edu.my

016-3148639

Techno Economic Analysis

Faculty of Civil Engineering Technology

My Profile





Associate Professor Ir. Dr. Norazwina binti Zainol

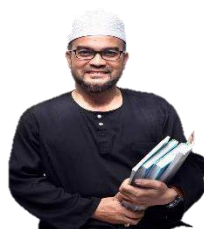
azwina@umpsa.edu.my

019-2719331

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Abdul Aziz bin Mohd Azoddein

aaziz@umpsa.edu.my

011-38811003

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

Faculty of Industrial Sciences and Technology

My Profile



Ts. Dr. Azizan bin Ramli

azizanramli@umpsa.edu.my

019-9881726

Air Pollution Assessment On Particulate Matter Dispersion At Mega Construction Site

Faculty of Industrial Sciences and Technology

My Profile



Ts. Dr. Zulkifly bin Jemaat

zulkifly@umpsa.edu.my

019-7261616

Bioremediation Of Amine Contaminated Wastewater Using Indigenous Bacteria

Faculty of Chemical and Process Engineering Technology

My Profile





Dr. Nurlin binti Abu Samah

nurlin@umpsa.edu.my

017-286 1679

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

Faculty of Industrial Sciences and Technology

My Profile



Dr. Tay Joo Hui

tayjoohui@umpsa.edu.my

011-38811003

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

Faculty of Industrial Sciences and Technology

My Profile





Professor Dr. Abdurahman Hamid Nour

abrahman@umpssa.edu.my

012-9134403

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

Faculty of Chemical and Process Engineering Technology

My Profile



Associate Professor Ir. Dr. Hafizi bin Zohari

hafizi@umpssa.edu.my

017-9860752

Development Of Composite Smart Structures

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Associate Professor Ir. Dr. Mohd Fairusham bin Ghazali

fairusham@umpssa.edu.my

012-9140708

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Associate Professor Ts. Dr. Mohd Shahrir Bin Mohd Sani

mshahrir@umpssa.edu.my

017-9143591

Structural Dynamics And Vibration

Faculty of Mechanical and Automotive Engineering Technology

My Profile





Associate Professor Ir. Ts. Dr. Ngui Wai Keng

wkngui@umpsa.edu.my

012-2852489

Formulation Of Deep Learning Model For Fault Diagnosis Of Rotating Machinery Under Different Operational Conditions

Faculty of Chemical and Process Engineering Technology

My Profile



Dr. Che Ku Eddy Nizwan bin Che Ku Husin

eddy@umpsa.edu.my

012-2907831

Development Of Composite Smart Structures

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Dr. Nurazima binti Ismail

nurazima@umpsa.edu.my

0192965358

Damage Detection On Aluminum Plate Using Fiber Optic Sensors For Structural Health Monitoring

Faculty of Mechanical and Automotive Engineering Technology

My Profile





Professor Ts. Dr. Mohd Ruzaimi bin Mat Rejab

ruzaimi@umpsa.edu.my

011-12509742

Ballistic Impact Modelling Of Truss-core Sandwich Structure
Incorporating Carbon Fiber Reinforced Plastic Composite And
Lightweight Aluminum Alloy

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Dr. Norhaida binti Ab. Razak

norhaida@umpsa.edu.my

019-2832475

Low Cycle Fatigue Behaviour Of High Temperature Material

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile





Dr. Ahmad Syahrizan bin Sulaiman

syahrizan@umpsa.edu.my

019-9056435

Metallurgy And Materials, Iron & Steel, Non-Ferrous Alloy

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Dr. Salwani binti Mohd Salleh

salwani@umpsa.edu.my

017-3193995

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

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Ts. Dr. Nasrul Azuan bin Alang

azuan@umpsa.edu.my

017-4636568

Local Fracture Criterion Model For Ductile Failure Of Api Steel Pipes

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Dr. Mohd Akramin bin Mohd Romlay

akramin@umpsa.edu.my

013-5715729

Fracture Mechanics, Probabilistic Analysis, FEM, Fatigue Analysis

Faculty of Mechanical and Automotive Engineering Technology

My Profile





Dr. Mohd Shamil bin Shaari

shamil@umpssa.edu.my

01114608525

Formulation of A New Fatigue Reliability Criterion of
Fatigue Crack Growth Computation for Metallic Additive
Manufacturing AlSi10Mg Materials

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile





Associate Professor Ir. Dr. Addie Irawan bin Hashim

addieirawan@umpsa.edu.my

019-9785276

Development Of Tele-operated Pipeline Inspection System
With Flexible Mechanism

Faculty of Electrical and Electronics Engineering Technology

My Profile



Ts. Dr. Zainah binti Md. Zain

zainah@umpsa.edu.my

013-9331700

Stabilization Of Underactuated Autonomous Underwater
Vehicles Based Backstepping Control

Faculty of Electrical and Electronics Engineering Technology

My Profile



Ts. Dr. Yasmin binti Abdul Wahab

yasmin@umpsa.edu.my

017-7536394

Ultrasonic Transmission-mode Tomography For Multiphase
Flow Regime Identification

Faculty of Electrical and Electronics Engineering Technology

My Profile





Ts. Dr. Zahrizan bin Zakaria

zahrizan@umpsa.edu.my

0136223983

Development Of Tele-operated Pipeline Inspection
System With Flexible Mechanism

Faculty of Civil Engineering Technology

My Profile



Associate Professor Ts. Dr. Hadi bin Manap

hadi@umpsa.edu.my

0178190007

Development of a Methane Gas Sensing System Using
DOAS Technique for Remote Detection And Monitoring

**Faculty of Electrical and Electronics Engineering
Technology**

My Profile



Dr. Maziyah binti Mat Noh

maziyah@umpsa.edu.my

0199842208

Formulation of Backstepping Higher Order Sliding Mode
Control (BHOSMC) as a New Control technique in Chattering
Reduction in Controlling Level Liquid in a Two-Tank System

Faculty of Electrical and Electronics Engineering Technology

My Profile





Associate Professor Dr. Mohd Mawardi bin Saari

mmawardi@umpsa.edu.my

0176485210

Investigation of a New Magnetic Flux Modulation technique to Mitigate the magnetic Permeability Effect for Ultra Sensitive Corrosion Detection in Steel Structures

Faculty of Electrical and Electronics Engineering Technology

My Profile



Ts. Dr. Ummu Kulthum binti Jamaludin

ummu85@umpsa.edu.my

019-7523280

Development of A Model-Based Algorithm for Blood Glucose Control in Malaysian Intensive Care Unit Patients

Faculty of Mechanical and Automotive Engineering Technology

My Profile



Dr. Ismayuzri bin Ishak

ismayuzri@umpsa.edu.my

013-8504311

Development Of A Universal Gas Detector Bump Test Station For Oil And Gas Industry

Faculty of Manufacturing and Mechatronics Engineering Technology

My Profile





Professor Ir. Dr. Mohd Faizal bin Jamlos

faizaljamlos@umpssa.edu.my

012-7001248

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

Faculty of Electrical and Electronics Engineering Technology

My Profile



Associate Professor Dr. Noryanti binti Muhammad

noryanti@umpssa.edu.my

011-37701334

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

Centre For Mathematical Sciences

My Profile



Ts. Dr. Jamaludin bin Sallim

jamal@umpssa.edu.my

019-2209650

Prediction Of Potential Addiction To Online Gaming Using
Particle Swarm Optimization

Faculty of Computing

My Profile



Dr. Ku Muhammad Na'im bin Ku Khalif

kunaim@umpssa.edu.my

017-2577527

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

Centre For Mathematical Sciences

My Profile





Associate Professor Dr. Norhayati binti Rosli

norhayati@umpsa.edu.my

0199544531

Risksmart_learning System's Training Module For
Petrochemical Industries In Gebeng And Kemaman: A
Collaboration With Basf And Kaneka Sdn. Bhd.

Centre For Mathematical Sciences

My Profile



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 UMP 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





Associate Professor Dr. Ahmad Tarmizi bin Haron

ahmadtarmizi@umpsa.edu.my

019-9000880

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

Faculty of Civil Engineering Technology

My Profile



Associate Professor Dr. Ezrin Hani binti Sukadarin

ezrin@umpsa.edu.my

012-7203230

Behavioral Based Safety In Construction Industry

Faculty of Industrial Sciences and Technology

My Profile



Ts. Dr. Zahrizan bin Zakaria

zahrizan@umpsa.edu.my

013-6223983

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

Faculty of Civil Engineering Technology

My Profile



Ir. Ts. Dr. Nurhidayah binti Azmy

hidayahba@umpsa.edu.my

019-2746575

Construction Quality Assessment (CQA) Mobile
Application

Faculty of Civil Engineering Technology

My Profile





Associate Professor Dr. Lee Chia Kuang

chia@umpsa.edu.my

013-7023668

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

Faculty of Industrial Management

My Profile



**Associate Professor Ts. Dr. Abdul Rahimi bin
Abdul Rahman**

arahimirahman@umpsa.edu.my

011-14246854

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

Faculty of Civil Engineering Technology

My Profile



Ts. Dr. Lee Yong Siang

leeys@umpsa.edu.my

017-4070272

Safety and Health Factors For Construction Sites
Of High-Rise Building Project In Malaysia

Faculty of Civil Engineering Technology

My Profile





Associate Professor Dr. Ramadhansyah Putra Jaya

ramadhansyah@umpsa.edu.my

012-3994214

Development Of Porous Concrete Drainage Cover
Slab From Waste Material

Faculty of Civil Engineering Technology

UMPSA World's Top 2% Scientist

[My Profile](#)



Associate Professor Ts. Dr. Muzamir bin Hasan

muzamir@umpsa.edu.my

012-7480820

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

Faculty of Civil Engineering Technology

[My Profile](#)



Associate Professor Dr. Mohd Yuhyi bin Mohd Tadza

dryuhyi@umpsa.edu.my

019-7552500

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

Faculty of Civil Engineering Technology

[My Profile](#)



Associate Professor Ir. Dr Ngien Su Kong

nsukong@umpsa.edu.my

019-8243072

Evaluation of Flow Characteristics in Sewerage Systems

Faculty of Civil Engineering Technology

[My Profile](#)





Associate Professor Ts. Dr. Khairunisa binti Muthusamy

khairunisa@umpsa.edu.my

017-8426549

Development Of Precast Lightweight Concrete Fencing Wall Panel Containing Industrial Waste

Faculty of Civil Engineering Technology

My Profile



Associate Professor Dr. Doh Shu Ing

dohsi@umpsa.edu.my

019-8129298

Elucidation Of Blended Cement Using Industrial Waste

Faculty of Civil Engineering Technology

My Profile



Associate Professor Ir. Dr Muhamad Zahim bin Sujod

zahim@umpsa.edu.my

011-10988048

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

Faculty of Electrical and Electronics Engineering

My Profile



Associate Professor Dr. Azrina binti Abd Aziz

azrinaaziz@umpsa.edu.my

010-3932711

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

Faculty of Civil Engineering Technology

My Profile





Associate Professor Dr. Mohd Fakhurrazi bin Ishak

fakhurrazi@umpsa.edu.my

019-7177574

Application Of Digital Surface Model To Investigate The Potential Slope Hazard

Faculty of Civil Engineering Technology

My Profile



Associate Professor Ts. Dr. Edriyana binti A.Aziz

edriyana@umpsa.edu.my

017-9853673

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

Faculty of Civil Engineering Technology

My Profile



Associate Professor Dr. Mohamad Idris bin Ali

idrisali@umpsa.edu.my

013-9865254

Kajian Penyediaan Pelan Pengurusan Lembangan Sungai Bersepadu (IRBM), Sungai Kuantan, Pahang Di Bawah Perlaksanaan JPS Malaysia

Faculty of Civil Engineering Technology

My Profile



Associate Professor Ir. Dr Chin Siew Choo

scchin@umpsa.edu.my

016-9098687

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

Faculty of Civil Engineering Technology

My Profile





Associate Professor Ir. Dr. Fadzil bin Mat Yahaya

fadzil@umpsa.edu.my

019-9897778

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

Faculty of Civil Engineering Technology

My Profile



Associate Professor Ts. Dr. Abdul Rahimi bin Abdul Rahman

arahimirahman@umpsa.edu.my

011-14246854

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

Faculty of Civil Engineering Technology

My Profile



Associate Professor Dr. Abdul Syukor bin Abd. Razak

syukor@umpsa.edu.my

016-9211143

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

Faculty of Civil Engineering Technology

My Profile



Ts. Dr. Nurul Nadrah Aqilah binti Tukimat

nadrah@umpsa.edu.my

012-9815977

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

Faculty of Civil Engineering Technology

My Profile



**Associate Professor Dr. Muhammad Ashraf bin Fauri @ Fauzi**

ashrafauzi@umpsa.edu.my

013-3005169

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

Faculty of Industrial Management

My Profile

**Dr. Intan Suhana binti Mohd Razelan**

intan@umpsa.edu.my

013-9927040

Smart Traffic System For Universiti Malaysia Pahang Pekan Campus

Faculty of Civil Engineering Technology

My Profile

**Dr. Noram Irwan bin Ramli**

noram@umpsa.edu.my

019-9300803

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

Faculty of Civil Engineering Technology

My Profile

**Dr. Noor Suraya binti Romali**

suraya@umpsa.edu.my

012-9308645

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

Faculty of Civil Engineering Technology

My Profile





Dr. Liyana binti Mohamed Yusof

liyanam@umpsa.edu.my

011-37404020

Formulation Of Accessibility In Malaysian Housing
Based On Universal Design Concept

Faculty of Civil Engineering Technology

My Profile



Dr. Jacqueline Isabella anak Gisen

isabella@umpsa.edu.my

011-25567114

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

Faculty of Civil Engineering Technology

My Profile



Ir. Ts. Dr. Hj. Saffuan bin Wan Ahmad

arahimirahman@umpsa.edu.my

011-14246854

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

Faculty of Civil Engineering Technology

My Profile



Ts. Dr. Azizan bin Ramli

azizanramli@umpsa.edu.my

019-9881726

Air Pollution Assessment On Particulate Matter
Dispersion At Mega Construction Site

Faculty of Industrial Sciences and Technology

My Profile





Dr. Ahmed Mokhtar Albshir Budiea

ahmedbudiea@umpsa.edu.my

017-8426576

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

Faculty of Industrial Management

My Profile



Dr. Lim Kar Sing

imks@umpsa.edu.my

016-6902106

Research And Development Of Magnetic Patch For Leaked Pipeline Repair

Faculty of Civil Engineering Technology

My Profile



Ts. Dr. Khairil Azman bin Masri

khairilazman@umpsa.edu.my

011-19346422

Microstructure Interaction Mechanism Of Asphalt Binder Incorporating Natural Fibers

Faculty of Civil Engineering Technology

My Profile



Ts. Dr. Rokiah binti Othman

rokiah@umpsa.edu.my

012-9520957

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

Faculty of Civil Engineering Technology

My Profile





Gs. Dr. Syarifuddin bin Misbari

syarifuddinm@umpsa.edu.my

016-7551917

Satellite-based Landslides Susceptibility Modelling In Kuantan River Basin

Faculty of Civil Engineering Technology

My Profile



Dr. Sharifah Maszura binti Syed Mohsin

maszura@umpsa.edu.my

019-3719611

Kencrete: Green Materials For Building Structures

Faculty of Civil Engineering Technology

My Profile



Ts. Dr. Rahimah binti Embong

rahimahe@umpsa.edu.my

019-5704657

Industrial waste as partial cement substitute in self-compacting concrete

Faculty of Civil Engineering Technology

My Profile



Dr. Aizat bin Alias

aizat@umpsa.edu.my

0197625863

Formulations of cementitious materials composition for 3D concrete print

Faculty of Civil Engineering Technology

My Profile





Dr. Khairul Anuar bin Shahid

khairulanuars@umpsa.edu.my

016-2326302

The potential use of palm oil clinker as drainage layer in green roof system.

Faculty of Civil Engineering Technology

My Profile



Ts. Norhaiza binti Ghazali

nhaiza@umpsa.edu.my

016-4454104

Effect Of Fly Ash As Partial Cement Replacement On Properties Of High Strength Palm Oil Clinker Lightweight Aggregate Concrete

Faculty of Civil Engineering Technology

My Profile



Dr. Mohd Irwan bin Adiyanto

mirwan@umpsa.edu.my

017-5316653

Seismic Vulnerability Of Residential Buildings In Low-to moderate Seismic Region

Faculty of Civil Engineering Technology

My Profile



Ts. Dr. Youventharan a/I Duraisamy

youventharan@umpsa.edu.my

012-2293579

Interaction Mechanism Of Bio-inspired Soil Anchorage System To Enhance Bonding Between Residual Soil Matrix And Strengthen Slope Stability In Tropical Region

Faculty of Civil Engineering Technology

My Profile





Shairul Rohaziawati binti Samat

shairul@umpsa.edu.my

012-6020335

Development Of Low Flow Frequency Curves For Rivers In
Pahang Using Probability Distribution

Faculty of Civil Engineering Technology

My Profile



Associate Professor Dr. Sudhakar Kumarasamy

sudhakar@umpsa.edu.my

019-7308925

Performance Modeling & Analysis Of Rooftop Farming Towards
Sustainable Building

UMPSA World's Top 2% Scientist (2023)

**Faculty of Mechanical and Automotive Engineering
Technology**

My Profile





Associate Professor Dr. Ahmad Tarmizi bin Haron

ahmadtarmizi@umpsa.edu.my

019-9000880

Assessment Of Organizational BIM Capabilities

Faculty of Civil Engineering Technology

My Profile



Associate Professor Dr. Puteri Fadzline binti Muhamad Tamyaz

fadzline@umpsa.edu.my

012-6138147

The Effects Of Entrepreneurial Competencies And Networks
Towards The Success Of Construction Firm In Malaysia

Faculty of Industrial Management

My Profile



Associate Professor Ts. Dr. Abdul Rahimi bin Abdul Rahman

arahimirahman@umpsa.edu.my

011-14246854

Critical Success Factors For Adopting Emerging Technologies
In Construction Projects

Faculty of Civil Engineering Technology

My Profile



Ts. Dr. Zahrizan bin Zakaria

zahrizan@umpsa.edu.my

013-6223983

Automating BIM-based Design Coordination: Development
Of A Plugin For Clash Resolution

Faculty of Civil Engineering Technology

My Profile





Dr. Fatimah binti Mahmud

fatimahm@umpsa.edu.my

019-2828011

Empirical Analysis On The Implementation Of Green Supply
Chain Management (GSCM) In The Construction Industry

Faculty of Industrial Management

My Profile



**Associate Professor Ir. Dr. Fadzil bin Mat Yahaya**

fadzil@umpsa.edu.my

019-9897778

A Survey Of Approaches To Building Maintenance Practices
In Universiti Malaysia Pahang: A Case Study

Faculty of Civil Engineering Technology

My Profile

**Ts. Dr. Mohammad Affendy bin Oardin**

affendi@umpsa.edu.my

018-4024301

Development Of Building Submission Check List Information
For Operational Submission Centre (OSC)

Faculty of Civil Engineering Technology

My Profile

**Ts. Dr. Zahrizan bin Zakaria**

zahrizan@umpsa.edu.my

013-6223983

Prioritization Of Maintenance & Repairs Of Pavement

Faculty of Civil Engineering Technology

My Profile

**Mohammad Syamsyul Hairi bin Saad**

msyamsyulhairi@umpsa.edu.my

019-9844388

Decision Support System In Bridge Maintenance Using GIS
Application

Faculty of Civil Engineering Technology

My Profile



**Ts. Azlina binti Haji Ismail**

azlinai@umpsa.edu.my

012-6764714

Performance-based Contract (PBC) For Road Maintenance In Malaysia

Faculty of Civil Engineering Technology

My Profile

**Dr. Khairul Anuar bin Shahid**

khairulanuars@umpsa.edu.my

016-2326302

Health monitoring of reinforced concrete structures based on acoustic emission technique

Faculty of Civil Engineering Technology

My Profile

**Ts. Dr. Azizan bin Ramli**

azizanramli@umpsa.edu.my

019-9881726

Development, Maintenance And Building Infrastructure Assessment: MUIP's Educational Entity

Faculty of Industrial Sciences and Technology

My Profile

**Ts. Dr. Lee Yong Siang**

leeys@umpsa.edu.my

017-4070272

Formulating An Effective Risk Communication Model For Large-Scale Underground Infrastructure Projects

Faculty of Civil Engineering Technology

My Profile





Associate Professor Dr. Irene Ting Wei Kiong

irene@umpsa.edu.my

017-9868819

Examining The Relationship Between Leader Confidence Level And Firm Efficiency Of Public Listed Companies In Malaysia

Faculty of Industrial Management

My Profile



Associate Professor Dr. Muhammad Ashraf bin Fauri @ Fauzi

ashrafauzi@umpsa.edu.my

013-3005169

Global Leadership Development (GLED)

Faculty of Industrial Management

My Profile



Ts. Dr. Muhammad Fakhru bin Yusuf

mfakhru@umpsa.edu.my

016-2380780

Assessing The Maturity Of Industry 4.0 In Primary Industries In Malaysia

Faculty of Industrial Management

My Profile



Dr. Suhaidah binti Hussain

suhaidahh@umpsa.edu.my

012-4114386

Kajian Anti-bribery Management Systems (ABMS) Institut Integriti Malaysia

Faculty of Industrial Management

My Profile



**Associate Professor Ts. Dr. Abdul Rahimi bin Abdul Rahman**

arahimirahman@umpsa.edu.my

011-14246854

Restarting Construction Of Abandoned Housing Projects: Key Decision Criteria

Faculty of Civil Engineering Technology

My Profile

**Associate Professor Dr. Lee Chia Kuang**

chia@umpsa.edu.my

013-7023668

Developing Guidelines For Contractors To Suspend Works Against Non-payment In Construction Industry: A Legal Research With Lexus Nexis Engine

Faculty of Industrial Management

My Profile

**Dr. Putri Zulaiha binti Razi**

putrizulaiha@umpsa.edu.my

012-9237045

Multicriteria Decision Model To Evaluate Project Execution Risk Rating For Road Construction Project

Faculty of Civil Engineering Technology

My Profile

**Ts. Dr. Ahmad Rizal bin Alias**

rizalalias@umpsa.edu.my

013-7461187

Re-construction Readiness Modeling To Access The Abandoned Housing

Faculty of Civil Engineering Technology

My Profile





Ts. Dr. Mohd Izham bin Mohd Jaya

izhamjaya@umpsa.edu.my

017-4855112

The Development Of Data Quality Management Framework For
Malaysian Government Open Data Platform

Faculty of Computing

My Profile



Associate Professor Dr. Ahmad Fitri bin Yusop

fitriy@umpsa.edu.my

013-7143525

Railway Reliability, Availability, Maintainability And Safety
Excellence Consortium

**Faculty of Mechanical & Automotive Engineering
Technology**

My Profile



Ts. Dr. Nur Farhayu binti Ariffin

farhayu@umpsa.edu.my

013-7003769

The Analysis Of Mitigation Plan Driver For Abandoned
Housing Project In Malaysia By Using Logistic Regression And
Analytical Hierarchy Process

Faculty of Civil Engineering Technology

My Profile



Published by



UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH

ISBN 978-67-2831-11-2



Penerbit UMPSA

