UNIVERSITI TEKNOLOGI MARA

Research NEWS

2/2025

Jabatan Penyelidikan & Inovasi (JPI)
Universiti Teknologi MARA

eISSN 3030-5039

// DEPUTY VICE-CHANCELLOR

FOREWORD

Prof. Ts. Dr. Norazah Abd Rahman
Deputy Vice-Chancellor
(Research & Innovation) UiTM

Assalamualaikum W.B.T and Hello Readers

It is with great pride and heartfelt appreciation that I present to you this latest edition of *UiTM Research News Bulletin*. This publication serves not only as a documentation of our research journey but a reflection of the hard work, passion, and commitment of our research community.

In this edition, it highlights the efforts of the Department of Research & Innovation in driving excellence, fostering partnerships, and empowering innovations that benefit not just the university, but society at large. This Research News captures the breadth and depth of activities spearheaded by the Department of Research & Innovation, ranging from impactful programmes, strategic partnerships with local and global institutions and industries, to ground-breaking research outputs and innovations.

As we continue this journey, I encourage all of us to remain steadfast in our pursuit of excellence. Let us continue to foster a research culture that not only produces results but also generates meaningful impact. May this publication serve as both a reflection of our achievements and a catalyst for future aspirations.

I invite you to discover the inspiring stories and accomplishments that define UiTM's research journey. Let this be a source of motivation for us to continue striving for research that brings real-world impact.

Let's keep moving forward, TOGETHER!

MESSAGE FROM THE CHIEF EDITOR

Mohamed Izzat Mohamed Khalil
Coordinator of Research Communication & Visibility (UKKP)
Department of Research & Innovation, UiTM

Assalamualaikum and warm greetings,

It is both an honour and a privilege for me to serve as the Chief Editor for this latest volume of Research News (April–June 2025), a publication that proudly documents the impactful strides and relentless efforts of the Jabatan Penyelidikan & Inovasi (JPI) UiTM, as well as our dedicated researchers, in advancing research, innovation, and knowledge sharing.

In this edition, we are delighted to highlight the successful organisation of the Mesyuarat Timbalan Naib Canselor (Penyelidikan & Inovasi) Bersama Timbalan Dekan & Timbalan Rektor Penyelidikan & Inovasi (METPI 2025), which was held over an insightful and engaging week in Pulau Pinang. The session brought together bright minds and collective momentum, aligning research directions and strengthening strategic collaborations across faculties and campuses. It marks a significant step towards fostering a stronger research ecosystem within UiTM.

We are truly proud to extend our heartfelt congratulations to our researchers who have achieved remarkable success in their respective fields. These accomplishments contribute significantly to UiTM's visibility and reputation, and we hope they will further strengthen our standing in the World University Rankings.

JPI remains proactive in exploring strategic benchmarks, establishing meaningful engagements with both academic institutions and industry players. These visits serve as vital learning platforms to enhance our operational excellence, innovation strategies, and research culture for empowering research and innovation.

Last but not least, I would like to express my heartfelt appreciation to the *Unit Komunikasi & Ketampakan Penyelidikan (UKKP)* for their continuous dedication in capturing, crafting, and curating the stories and achievements you see across these pages. Your commitment ensures that our progress is not only recorded, but remembered and celebrated.

May this publication inspire more impactful work and remind us of the power of collaboration, visibility, and perseverance in the research and innovation journey.

Advisor

Prof. Ts. Dr. Norazah Abd Rahman
Deputy Vice-Chancellor
Research & Innovation
UiTM

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Research NEWS 2025

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RESEARCH & INNOVATION UiTM // JPI

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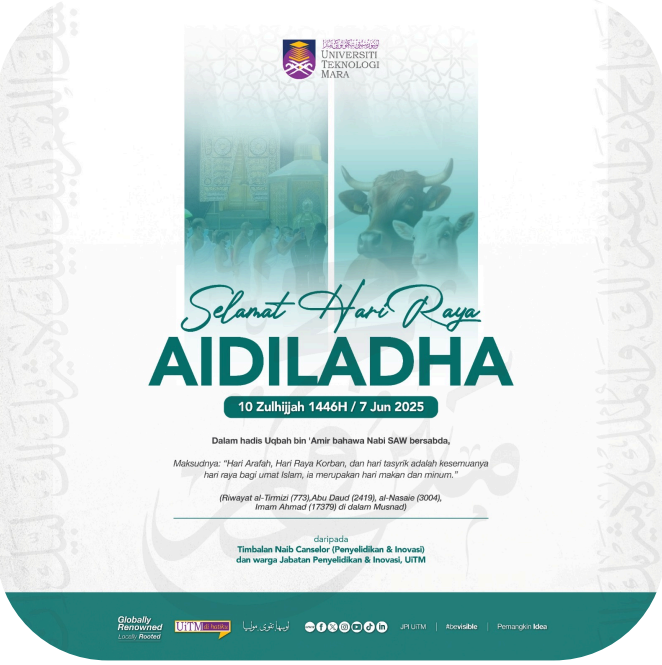


CELEBRATIONS

CELEBRATIONS

UiTM Recognised as One of the Strategic Partners of Selangor Climate Adaptation Center (SCAC)

19 May 2025 | Hotel Concorde, Shah Alam, Selangor

On 19 May 2025, Universiti Teknologi MARA (UiTM), through the Solar Research Institute (SRI), was honoured to be recognised as one of the strategic partners of the newly launched Selangor Climate Adaptation Centre (SCAC). Held at Concorde Hotel Shah Alam, the launch was officiated by His Royal Highness the Crown Prince of Selangor, in the presence of key stakeholders from government, industry, and academia.

As a partner, SRI will support SCAC in advancing greenhouse gas (GHG) inventory efforts and driving energy sustainability initiatives across Selangor. We are proud to contribute our research and expertise towards building a climate-resilient and low-carbon future for the state.

Congratulations to the Solar Research Institute (SRI) on this esteemed appointment.

Innovathon Season 3 @ UiTM Melaka

26 May 2025 I UiTM Melaka Branch, Alor Gajah Campus

A reality TV show with an edutainment concept by MOSTI, the Ministry of Economy, and Astro, showcasing innovations by local inventors that hold commercial potential and societal impact. Innovathon 2025 is now actively scouting for talented innovators among the UiTM community.

This Innovathon program is part of ongoing efforts to foster a culture of innovation among Malaysians; spark interest among youth in the fields of Science, Technology, Engineering, and Mathematics (STEM); boost private sector investment in R&D&C&I; and increase the number of patents from local inventors.

The Research & Innovation Division of UiTM wishes all the best to the UiTM innovators competing in this program. May the excellence shown in the first season which was won by a UiTM researcher be repeated once again.

CONGRATULATIONS

UiTM was awarded High Research Output Award 2025 by Emerald Publishing

10 June 2025 | Pullman Kuala Lumpur City Centre

Universiti Teknologi MARA has been proudly awarded the High Research Output Award 2025 by Emerald Publishing at the Emerald Conference 2025, held at Pullman Kuala Lumpur City Centre on 10 June 2025.

UiTM through Research Management Centre (RMC) successfully secured 4th place in Malaysia with a total of 62 research outputs (journal and book) in 2024.

Emerald Awards are international recognition given by Emerald Publishing to institutions that demonstrate excellent performance in terms of the use of electronic resources and the production of research outputs between January and December each year.

Deepest appreciation to all UiTM academics and researchers for their significant contributions in this award.

The 197th Seminar on the Prevention and Control of Environmental Pollution, organized by the Biodiversity and Environment Management Association (BIOMA)

24 Jun 2025 | China

The 197th Seminar on the Prevention and Control of Environmental Pollution, organized by the Biodiversity and Environment Management Association (BIOMA), is a 21-day international capacity-building program held in Chengdu, Dali, and Shenzhen, China from May 29 to June 18, 2025. A researcher from Microwave Research Institute (MRI), Universiti Teknologi MARA (UiTM), Assoc. Prof. Ir. Dr. Norashikin M. Thamrin, among four delegates from Malaysia has been selected to participate in this seminar.

This program brings together professionals and officials from developing countries to exchange knowledge and explore effective strategies for managing environmental pollution. Through a blend of lectures, study tours, site visits, and cultural experiences, the seminar covers critical topics including:

- Solid waste management in urban and rural settings
- Sewage and industrial wastewater treatment technologies
- Air pollution control and ecological restoration
- Energy recovery from agricultural and food waste
- Policy development and environmental governance

Participants were engaged with leading Chinese experts and researchers, gaining hands-on exposure through visits to advanced environmental protection projects and facilities. The seminar also includes cross-cultural exchanges and diplomatic discussions, such as the role of Xi Jinping Thought on Diplomacy in shaping China's global environmental cooperation.

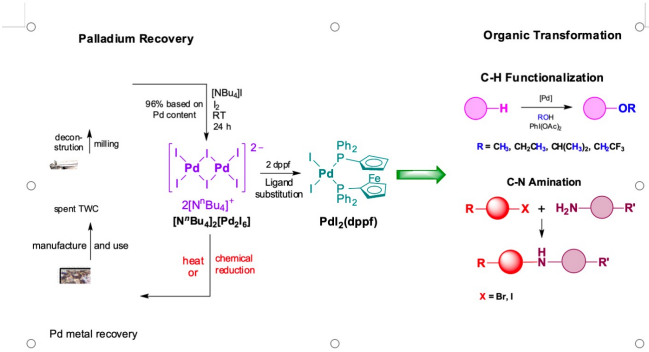
By the end of the program, participants acquired valuable insights into sustainable environmental practices and are encouraged to adapt these strategies within their own countries, fostering global collaboration in environmental protection.

RESEARCH @UiTM

April - June 2025

The 3rd Commonwealth Chemistry Congress

ChM. Dr. Khairil Anuar Jantan
Faculty of Applied Sciences, Universiti Teknologi MARA (UiTM)



The 3rd Commonwealth Chemistry Congress (CCC 2025) concluded its four-day event at the Protea by Marriott Hotel Stellenbosch in South Africa, where over 200 chemists and researchers, including more than 100 early career chemists from 34 Commonwealth countries, gathered to advance the United Nations Sustainable Development Goals (SDGs) through chemistry. The event aimed to strengthen scientific capacity, inspire the role of chemical sciences in society and policy, and celebrate achievements in chemistry research and education.

Among the distinguished participants Malaysia's delegation stood out, led by the Institute Kimia Malaysia (IKM). Following a rigorous national nomination process, IKM selected three promising young chemists to represent Malaysia: Dr. Khairil Anuar bin Jantan from the Faculty of Applied Sciences at UiTM, Dr. Muhammad Ameerullah bin Sahudin from the Department of Chemistry at UM, and Dr. Siti Fatimah Nur binti Abdul Aziz from the School of Chemical Sciences at USM. The delegation was accompanied by IKM President Datuk Dr. Soon Ting Kueh, Professor Yang Farina binti Abdul Aziz, an Executive Board Member of Commonwealth Chemistry, and Associate Professor Dr. Lee Hwei Voon, a keynote speaker.

Dr. Khairil Anuar bin Jantan's selection to represent Malaysia at this prestigious event is a testament to his groundbreaking research. His project, titled "From Waste to Wander: Palladium Recovery Product Catalyze C-H Functionalization and C-N Bond Formation," has garnered significant attention. The project focuses on palladium-catalyzed transformations, which are crucial in industrial activities, particularly in the fields of fine chemicals and pharmaceuticals.

Delegates from around the globe at CCC 2025

Traditional palladium-based catalysts are derived from environmentally damaging mining practices. Dr. Jantan's innovative approach involves recovering palladium through an energy-efficient, green process from spent three-way catalytic converters, a form of urban mining. This method not only reduces the environmental impact of palladium mining but also provides a highly efficient catalyst for essential chemical reactions, including C-H functionalization and C-N amination.

By utilizing readily available and inexpensive reagents, Dr. Jantan's research aligns with the United Nations Sustainable Development Goals 7 (Affordable and Clean Energy) and 12 (Responsible Consumption and Production). His work demonstrates a commitment to sustainability and innovation, setting a new standard for green chemistry.

Dr. Jantan's participation and presentation at the CCC 2025 is a significant milestone for Malaysia and UiTM. It highlights the global recognition of Malaysian scientific achievements and places UiTM on the world map. His work not only contributes to the field of chemistry but also serves as an inspiration for young scientists worldwide. As the CCC 2025 draws to a close, the Malaysian delegation returns home with a renewed sense of purpose and a global platform to continue their groundbreaking work. The future of chemistry is bright, and Malaysia is at the forefront of this scientific revolution.

Dr. Khairil Anuar bin Jantan's selection to represent Malaysia at the 3rd Commonwealth Chemistry Congress (CCC 2025) is a remarkable achievement, underscoring his innovative research in green chemistry. His project, "From Waste to Wander: Palladium Recovery Product Catalyze C-H Functionalization and C-N Bond Formation," has garnered significant attention for its potential to revolutionize industrial chemistry.

Traditional palladium catalysts, widely used in fine chemicals and pharmaceuticals, are derived from environmentally damaging mining practices. Dr. Jantan's groundbreaking approach involves recovering palladium from spent three-way catalytic converters through an energy-efficient, green process known as urban mining. This method not only mitigates the environmental impact of palladium mining but also produces a highly efficient catalyst for essential chemical reactions, including C-H functionalization and C-N amination.

By using readily available and inexpensive reagents, Dr. Jantan's research aligns with the United Nations Sustainable Development Goals 7 (Affordable and Clean Energy) and 12 (Responsible Consumption and Production). His work exemplifies a commitment to sustainability and innovation, setting a new standard for green chemistry and inspiring future research in this critical field.

Dr. Jantan's participation in CCC 2025 highlights the global recognition of Malaysian scientific excellence and places UiTM on the world map. His contributions to sustainable chemistry serve as a beacon for young scientists worldwide, demonstrating that innovation and environmental stewardship can go hand in hand.

Malaysia Delegate to 3rd Commonwealth Chemistry Congress (CCC 2025)

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EMBRACE THE FUTURE OF READING!

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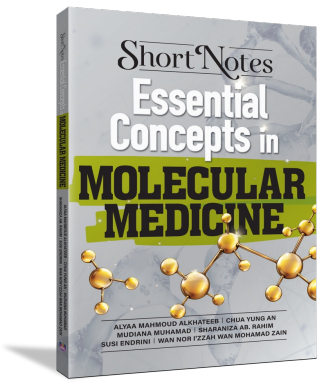
Inovasi merujuk kepada proses atau hasil penciptaan sesuatu yang baharu dengan melakukan perubahan yang signifikan terhadap sesuatu yang sedia ada, baik dalam bidang produk, proses atau kaedah. Ini mencakupi pengembangan kepada idea-idea baharu, penemuan teknologi baharu atau penggunaan yang lebih efisien menerusi sumber tenaga yang ada untuk menciptakan nilai tambah terhadap inovasi yang ingin dihasilkan. Maka, buku ini bakal mengupas secara lanjut berkenaan proses awal penghasilan sebuah produk inovasi sehinggalah ke peringkat perlindungan harta intelek.

Title	:	*Membudayakan Inovasi Melestarikan Kreativiti*
ISBN/E-ISBN	:	978-629-496-099-2
Price	:	RM 37.00 (Book)
Page	:	134 pages

Shopee



This ensemble of short notes is neither dry nor dull but rather a refreshing outlook on essential topics of the Molecular Medicine subject. As broad as the subject is, covering biological, bioinformatics, and medical techniques, this book is focusing mainly on fundamental molecular biology towards clinical applications. This volume provides simplified explanation yet comprehensive with captivating diagrams to facilitate better understanding. The authors are experienced academics, some with over 10 years of experience teaching the subject, thus well aware of the concerns among the medical students in grasping principles of molecular medicine.

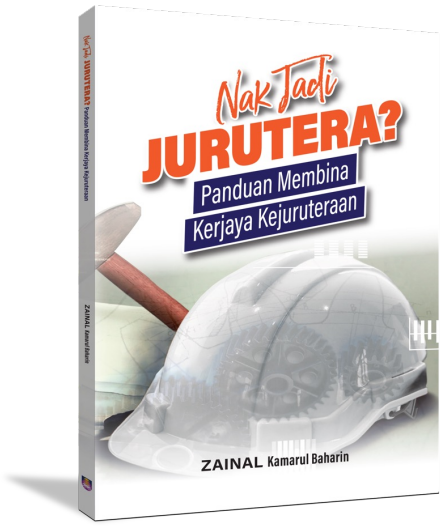
Title	:	Short Notes Essential Concepts in Molecular Medicine
E-ISBN	:	e 978-629-496-112-8
Price	:	RM 29.00 (E-Book)
Page	:	80 pages

MindAppz

Buku ini merupakan edisi pertama yang mempunyai enam bab dan dikupas secara ringkas, Fasa Insepsi, Fasa Kebenaran Merancang, Fasa Reka Bentuk Pembangunan, Fasa Dokumentasi Pembangunan, Fasa Pelaksanaan dan Pengurusan Kontrak dan Fasa Penyelesaian Akhir. Ia turut memberi pendedahan tentang perancangan, penjadualan dan pengawalan secara menyeluruh sebelum sesuatu projek dimulakan bagi memastikan projek tersebut dapat disiapkan pada masa yang ditetapkan, berjalan lancar, dilaksanakan secara sempurna dan memenuhi keperluan pihak berkepentingan.

Title : *Proses dan Prosedur Pembangunan Perumahan*
E-ISBN : e 978-629-496-111-1
Price : RM29.00 (E-Book)
Page : 90 pages

MindAppz



Terdapat pelbagai cabang kerjaya kejuruteraan yang boleh dipilih selepas tamat pengajian kursus ijazah sarjana muda kejuruteraan. Ikutilah panduan yang disediakan dalam buku ini sebagai persediaan awal dalam membina kerjaya kejuruteraan. Dari pemilihan syarikat dan organisasi, penyediaan vitae kurikulum, permohonan kerja, persediaan menghadapi temu duga sehinggalah setelah mendapat dan menerima tawaran kerja.

Title : *Nak Jadi Jurutera? Panduan Membina Kerjaya Kejuruteraan*
ISBN/E-ISBN : 978-629-496-089-3 / e 978-629-496-087-9
Price : RM 37.00 (Book) / RM 30.00 (E-Book)
Page : 54 pages

Shopee MindAppz

Pemikiran reka bentuk ialah proses tidak linear, berulang yang digunakan oleh pereka bentuk untuk memahami pengguna, mencabar andaian, mengadaptasi fungsi dan mengguna intuisi dalam penghasilan produk, mentakrifkan semula masalah dan mencipta penyelesaian inovatif untuk prototaip dan ujian.
Buku ini mengandungi:

- Setiap bab padat berisi fakta dan panduan kepada pembaca tentang cara berfikir
- Penerangan tentang kaedah terbaik untuk mengolah dan menterjemahkan idea abstrak kepada konkrit.
- Rajah, jadual dan gambar yang meningkatkan kefahaman pembaca dan menjadi panduan dalam reka bentuk produk.

Title	: *Panduan Asas Pemikiran Reka Bentuk Produk (Edisi Semakan)*
ISBN/E-ISBN	: 978-629-496-091-6
Price	: RM 41.00 (Book)
Page	: 152 page

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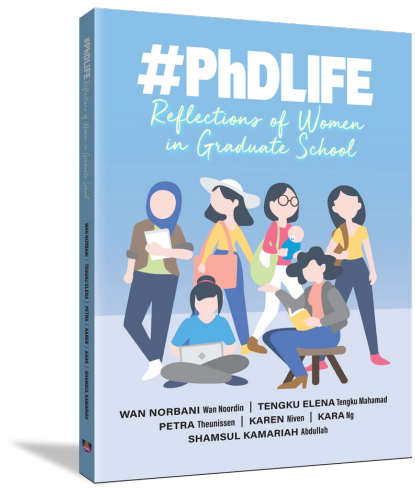

#PhDLIFE: Reflections of Women in Graduate School describes and tells stories of PhD journeys from different culture and backgrounds. It shares intimate experiences in the years leading up to a PhD degree.
"A PhD is more than a degree; it's a crucible of self-discovery and resilience. As a woman in leadership married to a PhD in Public Health, I've seen firsthand the extraordinary dedication and perseverance required to navigate this academic journey. Supporting my husband's pursuit has deepened my admiration for the immense effort behind every milestone. For women balancing academia with caregiving, the journey is even more profound. This book is a tribute to the remarkable strength of women in academia, a source of inspiration for those considering a PhD, and a reminder that together, we can achieve extraordinary things." - ***YB Puan Teo Nie Ching****, Deputy Minister of Communications, Malaysia*

Title	: #PhDLIFE: Reflections of Women in Graduate School
E-ISBN	: 978-629-496-068-8 / e 978-629-496-069-5
Price	: RM 44.00 (Book) / RM 39.00 (E-Book)
Page	: 132 pages

MindAppz Shopee

RESEARCH @ MEDIA

April - June 2025

Textile Waste Poses Serious Threat to Environment

08 April 2025 | The Sun

Textile waste poses serious threat to environment

Some fibres take up to 200 years to decompose and release greenhouse gas that accelerates climate change: Academic

BY QIRANA NABILLA MOHD RASHIDI
newsdesk@thesundaily.com

Najua said recycling, reusing and upcycling textiles, along with supporting sustainable fashion and secondhand markets, could promote a greener future. – *ADAM AMIR HAMZAH/THESUN*

PETALING JAYA: Malaysia produces an alarming 195,300 tonnes of textile waste each year, much of which ends up in landfills.

Experts have warned that this growing issue accelerates climate change and environmental pollution as synthetic fabrics may take decades to decompose.

Universiti Teknologi Mara Textile and Apparel Programme School of Industrial Technology senior lecturer Dr Najua Tulos explained that textile waste contributes to environmental pollution, with the decomposition time of textiles in landfills varying up to 200 years depending on the material composition and environmental conditions.

"Common textile fibres, such as cotton (natural fibre), may take between three months and five years to decompose. Synthetic fibre, such as polyester, which is derived from petroleum, is notably resistant to decomposition, taking between 20 and 200 years to break down in landfill environments.

"Factors such as moisture, temperature and oxygen levels affect the process of decomposition."

She said decomposing synthetic textiles release methane, a greenhouse gas that accelerates climate change.

She added that textile waste contains harmful chemicals, including dyes, heavy metals and microplastics.

"When discarded clothing decomposes, the chemicals leach into the soil and groundwater, affecting agriculture and drinking water sources. For instance, the Klang River has been found to have high levels of industrial pollutants, some of which originate from textile and garment factories.

"Many clothes today are made from synthetic fibres, such as nylon and acrylic, which shed microplastics when washed. In Malaysia, rivers such as the Gombak River and the Klang River transport these microplastics to the ocean, harming marine life."

Najua said due to limited landfill space, some textile waste is openly burned, releasing toxic gases that worsen air pollution.

This is a common issue at illegal dumpsites in Kuala Lumpur and Johor, where waste is burned to reduce volume.

She also said Malaysia imports large amounts of cheap fast fashion, with many garments discarded after only a few uses.

"Textile production has a huge environmental impact. Making one cotton t-shirt requires 2,700 litres of water, which is the same amount a person drinks in 2.5 years. The demand for new clothes also contributes to deforestation, water shortages and pollution from garment factories."

She stressed that a circular economy is key to managing textile waste in Malaysia as recycling, reusing and upcycling textiles, along with supporting sustainable fashion and secondhand markets, could cut waste, reduce environmental harm and promote a greener future.

With government support and consumer participation, a circular fashion economy could become a reality, benefiting the environment and the economy, she added.

"Raising awareness on sustainable consumption is essential. Thrifting and upcycling help shift consumer mindsets from fast fashion to conscious consumption. People become more aware of the impact of their purchasing decisions, leading to more responsible shopping habits."

Najua said Malaysia should adopt a combination of regulations, incentives and awareness programmes to address textile waste effectively.

She said implementing Extended Producer Responsibility would require fashion brands to manage the disposal of their products by collecting, recycling or upcycling used textiles, similar to the European Union model in which companies fund waste collection and recycling programmes.

"Nationwide textile recycling centres should be established by installing collection bins in public areas, malls and residential zones while improving infrastructure for sorting and repurposing textiles.

"Introducing a fast fashion tax on retailers would discourage overproduction and overconsumption, with the revenue funding recycling programmes and sustainability initiatives, as seen in France."

She encouraged a nationwide "Repair, Reuse and Thrift" campaign to educate Malaysians on the environmental impact of textile waste and promote sustainable habits.

Delegasi Malaysia Menang Dua Emas, Tiga Perak Dan Satu Gangsa di Geneva

14 April 2025 | Harian Metro

Delegasi Malaysia menang dua emas, tiga perak dan satu gangsa di Geneva

PEMENANG pingat emas yang membangunkan produk inovasi CVMAXX dari UiTM, Dr Noraina Norman dan Dr Norhasmira Mohamad.

Kuala Lumpur : Delegasi Malaysia meraih dua pingat emas, tiga perak dan satu gangsa di Pameran Rekacipta dan Inovasi Antarabangsa ke-50 di Geneva, Switzerland, yang bermula 9 hingga 13 April lalu.

Pingat emas dimenangi pereka cipta dari Universiti Teknologi Mara (UiTM) iaitu Dr Noraina Norman, Dr Norhasmira Mohamad dan Prof Dr Muhamad Yusmiaidil Putera M Yusof yang membangunkan produk inovasi diberi nama CVMAXX.

Menurut mereka, CVMAXX adalah sistem pintar berasaskan kecerdasan buatan (AI) yang membantu menilai tahap kematangan vertebra servikal secara automatik.

"Sistem ini mengurangkan ralat manusia, meningkatkan ketepatan penilaian, mengoptimumkan penentuan masa rawatan serta menyumbang kepada penambah baikan hasil rawatan dalam bidang kesihatan," katanya.

Read more:
https://www.hmetro.com.my/mutakhir/2025/04/1207701/delegasi-malaysia-menang-dua-emas-tiga-perak-dan-satu-gangsa-di-geneva

Pembangunan Lebuh Raya Perlu Lebih Seimbang

16 April 2025 | Utusan

Pembangunan lebuh raya perlu lebih seimbang

PEMBANGUNAN lebuh raya seperti Lebuhraya Utara-Selatan (PLUS) telah memacu industri logistik dan hartanah di kawasan bandar. Namun, kawasan luar bandar seperti Jeli (Kelantan) atau Setiu (Terengganu) masih bergantung pada jalan persekutuan yang usang.

Di Lembah Klang, lebuh raya seperti Lebuhraya Bertingkat Sungai Besi-Ulu Kelang (SUKE) dan Lebuhraya Bertingkat Damansara-Shah Alam (DASH) meningkatkan nilai hartanah sehingga 20 peratus dalam tempoh lima tahun. Namun, di kawasan pedalaman Kelantan, kenaikan nilai tanah hampir tidak ketara.

Laporan Institut Kajian Khazanah (2023) menunjukkan pemilikan kenderaan di Pantai Timur adalah 40 peratus lebih rendah berbanding Pantai Barat. Ini membuktikan kurangnya lebuh raya berkualiti menghalang mobiliti ekonomi.

Pembangunan lebuh raya juga mempengaruhi pelaburan asing (FDI). Pada 2024, 75 peratus FDI tertumpu di negeri dengan jaringan lebuh raya maju seperti Selangor dan Pulau Pinang.

Wilayah seperti Perlis dan Kelantan hanya menerima kurang daripada 5 peratus FDI. Ketiadaan lebuh raya moden menjadi salah satu faktor penghalang utama.

Kesan ketidakseimbangan ini juga jelas dalam industri pelancongan. Destinasi seperti Genting Highlands dan Melaka mendapat lebih banyak pelancong kerana akses lebuh raya yang baik.

Sebaliknya, lokasi menarik di Terengganu seperti Tasik Kenyir kurang dikunjungi kerana kekurangan lebuh raya yang cekap. Data Tourism Malaysia 2024 menunjukkan hanya 20 peratus pelancong asing melawat Pantai Timur.

Kerajaan telah melancarkan projek seperti Projek Laluan Rel Pantai Timur (ECRL) untuk mengurangkan ketidakseimbangan. Namun, pembinaan lebuh raya seperti Central Spine Road (CSR) masih perlahan, dengan hanya 65 peratus siap setakat 2024.

Ketiadaan jaringan lebuh raya yang baik juga menjejaskan industri pertanian. Petani di Kelantan terpaksa menanggung kos pengangkutan 20 peratus lebih tinggi berbanding di Johor.

Menurut Lembaga Pemasaran Pertanian Persekutuan (FAMA), sayur-sayuran dari Cameron Highlands mengambil masa selama tiga jam untuk sampai ke Kuala Lumpur tetapi produk dari Gua Musang mengambil masa enam jam. Ini meningkatkan kos dan mengurangkan daya saing.

Pembangunan lebuh raya yang tidak seimbang juga mempermudah lagi migrasi penduduk.

Ramai anak muda dari Pantai Timur berpindah ke bandar besar untuk mencari pekerjaan.

Statistik Jabatan Perangkaan pada tahun lalu menunjukkan 35 peratus graduan Kelantan bekerja di luar negeri. Ketiadaan peluang ekonomi di kawasan sendiri dikaitkan dengan infrastruktur yang lemah.

Kerajaan perlu memastikan pembangunan lebuh raya lebih inklusif. Projek seperti Lebuhraya Pan Borneo di Sarawak menunjukkan kesan positif, dengan pertumbuhan ekonomi tempatan meningkat 8 peratus, sejak 2020.

Namun, di Semenanjung, tumpuan masih pada kawasan maju. Peruntukan untuk lebuh raya di bawah Rancangan Malaysia Ke-12 (RMK12) menunjukkan 60 peratus bajet tertumpu di Pantai Barat.

Penyelesaian jangka panjang memerlukan perancangan lebih teliti. Pembangunan lebuh raya harus seiring dengan pengukuhan ekonomi tempatan, bukan hanya memfokus pada kawasan yang sudah maju.

Dengan strategi yang betul, lebuh raya boleh menjadi pemangkin pembangunan wilayah yang lebih saksama. Malaysia perlu belajar dari kesilapan lalu untuk memastikan pertumbuhan ekonomi lebih seimbang pada masa hadapan.

Ketidakseimbangan ekonomi akibat pembangunan lebuh raya adalah isu kritikal yang perlu ditangani segera.

Kerajaan, penyelidik dan pihak berkepentingan harus bekerjasama untuk memastikan manfaat infrastruktur dinikmati oleh semua wilayah secara adil.

DR. IRWAN IBRAHIM & DR. ABDUL KHABIR RAHMAT ABDUL KHABIR RAHMAT
Institut Pengangkutan Malaysia (Mitrans)
Universiti Teknologi Mara (UiTM)

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Anak FELDA Jadi 'Pakar Bedah Minyak Wangi'

21 April 2025 I Buletin 9

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Sidang Kemuncak The Future of Energy Security

02 May 2025 I Berita RTM

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https://www.youtube.com/watch?v=AOY1sKApD04

Ketelusan Perlindungan Alam Sekitar Jayakan Teknologi Berkaitan Karbon

05 May 2025 | Berita Harian

Ketelusan perlindungan alam sekitar jayakan teknologi berkaitan karbon

Timbalan Pengarah, Solar Research Institute, Universiti Teknologi MARA (UiTM)

Oleh Prof Madya Dr Azlin Mohd Azmi
bhrencana@bh.com.my

Rang Undang-Undang Penangkapan, Penggunaan dan Penyimpanan Karbon (RUU CCUS) 2025 yang diluluskan Parlimen mencatatkan sejarah penting dalam perjalanan dasar iklim di negara ini.

Di bawah RUU ini, sebuah agensi CCUS akan ditubuhkan yang bertanggungjawab menyelia operasi penangkapan, pelesenan, penyuntikan, penyimpanan dan penutupan tapak berkaitan dengan karbon.

RUU ini menyokong dasar tenaga dan iklim Malaysia yang lebih luas, memandangkan CCUS ditonjolkan secara jelas sebagai antara teknologi utama dalam Pelan Hala Tuju Peralihan Tenaga Negara (NETR) dan Pelan Induk Perindustrian Baharu (NIMP) 2030.

CCUS merujuk kepada teknologi menangkap pelepasan karbon dioksida daripada kemudahan perindustrian atau loji jana kuasa sebelum dilepaskan ke atmosfera.

Gas ini disimpan secara kekal dalam formasi geologi yang dalam atau digunakan dalam proses pemulihan minyak, pengeluaran bahan kimia, pembuatan bahan binaan dan penghasilan bahan api sintetik.

Kerajaan mengunjurkan ekonomi CCUS boleh menjana sehingga 200,000 pekerjaan merentasi rantaian nilai, daripada pembinaan, operasi, pengangkutan dan pemantauan.

Secara strategik, Malaysia berhasrat memanfaatkan kepakaran dalam industri minyak dan gas serta rangkaian infrastruktur paip yang luas, bagi memposisikan negara sebagai hab CCUS serantau.

Minat pelaburan kukuh dari Jepun dan Korea Selatan menambahkan lagi keyakinan terhadap usaha ini.

Teknologi ini turut dianggap penting bagi NETR yang menetapkan gas asli sebagai bahan api peralihan utama hingga 2050. Bagi menguruskan pelepasan karbon daripada industri berat seperti keluli, simen dan jana kuasa gas, CCUS menjadi penyelesaian untuk sektor pelepasan sukar dikurangkan.

Pada peringkat global, projek CCUS menunjukkan pencapaian berbeza. Projek Sleipner di Norway beroperasi sejak 1996, sering disebut sebagai model berjaya, menyuntik lebih 20 juta tan karbon dioksida tanpa insiden serius, meskipun terdapat laporan mengingatkan pelabur terhadap cabaran teknikal dan ekonomi.

Sebaliknya, projek Gorgon oleh Chevron di Australia Barat, iaitu projek penangkapan dan penyimpanan karbon (CCS) terbesar di dunia, gagal mencapai sasarannya untuk menangkap 80 peratus karbon dioksida secara konsisten, sebaliknya hanya sekitar 30 peratus untuk lima tahun pertama beroperasi.

Diakui, teknologi CCUS bukanlah tanpa cabaran. Kebocoran gas berkepekatan tinggi dari saluran paip dan tapak penyimpanan boleh mengancam keselamatan.

Suntikan bawah tanah membawa risiko seismik, terutama di kawasan tektonik aktif. Pembendungan tidak sempurna boleh menyebabkan pencemaran air bawah tanah.

RUU perlu perundingan awam

Terdapat juga kebimbangan RUU itu diluluskan tanpa perundingan awam meluas atau perbahasan Parlimen menyeluruh, sekali gus menimbulkan persoalan berkaitan ketelusan dan akuntabiliti.

Pemerhati global juga bimbang Malaysia berisiko menjadi 'tapak pembuangan' karbon daripada pelepasan negara asing sekiranya perlindungan dan penguatkuasaan jangka panjang tidak dilaksanakan dengan tegas.

Menurut Laporan Penilaian Keenam IPCC (AR6, 2022), CCUS dalam sektor tenaga dan perindustrian adalah antara pilihan pengurangan pelepasan paling mahal, dengan kos pengurangan marginal tinggi, iaitu A$50 (RM216) hingga A$100 (RM432) setiap tan karbon dioksida setara dengan ketidakpastian tinggi.

Ini jauh lebih tinggi berbanding tenaga boleh diperbaharui seperti angin dan solar, yang hanya memerlukan kos sehingga A$80 (RM345) setiap tan karbon dioksida setara.

Microsoft baru-baru ini mengumumkan CCS bernilai A$800 juta (RM3.5 bilion) di Baton Rouge, Louisiana, yang menyasarkan penyimpanan 6.75 juta tan karbon dioksida selama 15 tahun.

Ini diterjemahkan kepada melebihi A$100 (RM432) bagi setiap tan karbon dioksida, mengukuhkan bukti CCUS kekal sebagai teknologi mitigasi termahal.

Secara umumnya, RUU ini menetapkan asas kepada potensi pembangunan ekosistem pengurusan karbon yang transformatif. Bagaimanapun, CCUS perlu dilihat hanya sebagai alat pelengkap, bukan pengganti kepada pelaburan dalam tenaga solar, tenaga angin dan inisiatif kecekapan tenaga yang terbukti sebagai teknologi mitigasi berkesan.

Tugas sebenar kini bermula bagi memastikan ketelusan, membina kapasiti teknikal, menguatkuasakan perlindungan alam sekitar dan mengekalkan kepercayaan orang ramai, agar tidak mengulangi kegagalan pernah berlaku pada peringkat global.

Semoga Malaysia memulakan lembaran baharu ini dengan dipacu gabungan inovasi, integriti dan ketelusan yang tinggi.

Fuel Diversification Critical to Future Proof Malaysia`s Electricity Supply

19 June 2025 | The Malaysian Reserve

Fuel diversification critical to future-proof Malaysia's electricity supply

Shifting to secure, balanced energy mix takes time and demands political will, long-term planning and consistent action

by AKMAR ANNUAR

Our electricity generation is still almost 50% coal-based, says Adlansyah

According to Ahmad Farid, biomass is flexible and an untapped goldmine

AS MALAYSIA eyes a low-carbon future, energy experts are warning that the country's heavy dependence on a few fuel types – particularly gas and coal – could leave the national grid increasingly vulnerable to disruptions.

The ultimate solution? A bold, diversified energy mix that blends traditional fuels with renewables, distributed power generation and even nuclear power.

While that might sound like a lot of jargon, the takeaway is simple: if we want our lights to stay on, our bills to stay low and our environment to stay liveable, we need more than just one or two types of fuel powering our lives.

Heriot-Watt University Malaysia's School of Engineering and Physical Sciences Assoc Prof Dr Adlansyah Abd Rahman explained that fuel diversification is no longer a trendy catchphrase, but an essential strategy to ensure Malaysia's energy security and long-term sustainability.

"Our electricity generation is still almost 50% coal-based, which guarantees affordable base-load power, but we cannot keep relying on it forever," he told *The Malaysian Reserve (TMR)*.

He explained that while coal power stations are effective in ensuring constant supply of electricity, they are also the biggest contributor of greenhouse gas emissions.

"However, we must not do this transition too abruptly. We need proper replacements of thermal power such as biomass, which is still underutilised," he added.

The Danger of Putting All Your Plugs in One Socket

Malaysia's current power grid is like an old strip where most of the plugs go into the same outlet. Gas.

According to Prof Ahmad Farid Abidin@Bahrun, the Dean for the Faculty of Electrical Engineering, Universiti Teknologi MARA (UiTM) Shah Alam, gas currently makes up about 40% of the fuels used for electricity generation, and projections show it may rise to 70% by 2040 or 2050 if nothing changes.

"That is a huge risk. If there is a disruption in gas supply – say, a pipeline rupture or global price shock — our whole power grid will be exposed to limited power supplies. We have already seen small-scale shutdowns when this happened recently," he said to *TMR*.

Despite existing policies encouraging fuel diversification dating back to the early 2000s, implementation remains slow. Ahmad Farid believes part of the problem lies in a lack of financial incentives and effective long-term planning.

At the moment, it is still cheaper and easier to stick with coal or gas. Therefore, the government needs to step in with tax exemptions, special tariffs or subsidies to encourage industry players and independent power producers to invest in alternative fuels.

On the other hand, coal has kept the country's homes, factories and offices humming for decades. It is cheap, can be reliably stored for months, and does not rely on vulnerable supply routes like pipelines.

Ahmad Farid described it as a paradox. He said while coal is stable and reliable, its utilisation for power generation goes against the nation's ambition of achieving net-zero carbon emissions by 2050.

Both experts agreed that Malaysia's plan to shift away from coal must be handled carefully. Rushing the process could lead to blackouts or skyrocketing costs, but delaying it too long puts the environment and future generations at risk.

A middle ground could lie in "clean coal" technologies which would reduce the emissions from the coal power plants. Some of the modern plants have incorporate these technologies such as low NOx burners, electrostatic precipitators, bag filters and flue gas desulfurisation.

Others like carbon capture system involve high capital investment cost and utilise high parasitic power. Meanwhile, an option that would likely be applicable to local coal plants is cofiring with low carbon fuels — where coal is burned alongside biomass like palm waste or wood chips, reducing the overall emissions output.

"Cofiring is suitable since the local palm oil industry produces abundant amount of waste that could be harnessed as valuable fuel for power generation," said Adlansyah.

"We can start small — with 5% biomass substitution, gradually increasing the cofiring percentage, and eventually replace coal entirely."

A recent example of fuel diversification in action can be seen at the Tanjung Bin Power Plant in Pontian, Johor – one of Malaysia's largest coal-fired facilities, with a capacity of 2,100 megawatts (MW). Since late 2022, the plant has begun integrating biomass into its operations through a cofiring approach. Starting with a modest 0.5% blend, the project has since scaled up to 2% and aims to reach 10% by 2027.

Rather than focusing solely on emissions reductions, the initiative demonstrates how cofiring can strengthen energy security by reducing reliance on both coal and gas. By introducing a third fuel stream – sourced from local agricultural waste like palm residues or wood biomass – the plant can diversify its feedstock without compromising generation stability. This helps ensure continuous power supply, especially in times of fossil-fuel supply disruptions or price volatility.

Adlansyah noted that developing a robust and scalable supply chain for local biomass is essential to expand such efforts nationally. With the right policies, logistical support and incentives, he said, biomass cofiring could become a viable and secure component of Malaysia's energy mix – enhancing grid resilience while supporting local industry.

Energy is Personal: From Rooftop Solar to Backyard Grids

The conversation about Malaysia's future energy is not just for engineers or policymakers. It affects everyone who flips a light switch or charges their phone.

Ahmad Farid champions the idea of a decentralised grid, where energy does not just come from massive plants in distant industrial zones, but also from small-scale, local sources.

"Imagine a future where your neighbourhood has its own solar panels, your university campus has its own mini hydro system and your home has battery storage to keep things running during outages," he said.

This model, known as distributed generation, is already in use in countries like Germany and Spain.

Even in rural Spain – despite its highly developed national grid and technical expertise – blackouts have occurred, highlighting the risks of over-reliance on centralised systems. This, he said, underscores the importance of distributed generation (DG), which decentralises electricity supply and reduces the impact of disruptions in any one location. Malaysia, he said, can learn from that.

"We have seen what happens when the system is too centralised. A hiccup in one place affects everyone. With distributed energy resources, the energy system no longer relies solely on the transmission grid, thereby reducing the risk of major outages."

The DG component, which consists of shared renewable energy resources such as solar arrays, battery storage systems or neighbourhood-scale microgrids, proves to be clean in terms of environmental perspective, collectively improves energy resilience, ensures more stable power during outages and offers financial savings for residents.

One example is the smart homes in Kajang, Selangor, equipped with solar photovoltaic (PV) panels that sell excess electricity back to Tenaga Nasional Bhd (TNB) under the Net Energy Metering (NEM) scheme, allowing homeowners to earn credits on their electricity bills.

In addition to environmental benefits, these systems provide a smarter and more sustainable approach to energy management – particularly during planned maintenance or supply disruptions, when local generation can continue to power homes without interruption.

Beyond being green, both Ahmad Farid and Adlansyah said, it's also about being smart and financially savvy. In areas equipped with DG, scheduled maintenance by TNB would have less impact on residents because part of their electricity is locally generated and managed.

Biomass and Micro-hydro, the Hidden Powerhouse

While solar and hydro get the spotlight, experts said biomass could quietly play a starring role in Malaysia's transition. Biomass includes organic waste from agriculture, such as palm oil residues, coconut husks or even food waste.

Ahmad Farid explained that biomass is flexible. It can be used in large plants, or in DG, but currently, it only makes up 0.2% of Malaysia's capacity.

"That is an untapped goldmine," he said.

He believes that one of the main barriers to greater investment in alternative energy sources like biomass is the high upfront capital required.

Many potential investors are discouraged by the long return-on-investment period, which can stretch to 10 or 15 years, in addition to the current low demand for the energy sources.

He argued that this is why government's aspiration and support through fiscal policies – such as tax incentives or subsidies – is crucial to make these investments more attractive and viable.

Micro-hydro, which harnesses the power of small rivers or streams without building massive dams, is another overlooked option.

"You do not need a big waterfall – just the natural flow of water can power rural communities," Ahmad Farid said.

Are We Ready to Talk about Nuclear Energy?

Perhaps the most controversial topic of all is nuclear energy. While many Malaysians are hesitant about the idea of nuclear reactors, experts believe small modular reactors (SMRs) may offer a safe, stable and clean option.

People fear what they do not understand, but we have had a nuclear research reactor operating in Bangi, Selangor, for over 50 years. It is safe. We have the expertise. What we lack is awareness," Ahmad Farid said.

He added that SMRs, which are compact and designed with enhanced safety features, could be deployed in remote areas or industrial parks.

While SMRs are not intended to replace large coal plants overnight, they can play a critical role in bridging capacity gaps left by phased-out coal facilities. At the same time, they help reduce reliance on gas-fired plants and address the intermittency challenges associated with solar energy.

Meanwhile, Adlansyah said the public needs to understand that net zero does not mean zero carbon – just a balance between what we emit and what we absorb, and nuclear energy can be part of that balance.

Planning, Politics and Public Will

Both experts pointed out that achieving a resilient, low-carbon energy future will require more than just good ideas. It will take political will, inter-ministerial coordination and clear national direction to execute them to achieve the goals.

Ahmad Farid noted that Malaysia's energy planning is currently fragmented, with different ministries managing different aspects of the sector – hydropower under one, biomass under another and nuclear energy under yet another.

This lack of coordination, he said, makes it difficult to implement a unified strategy. He stressed the need for a single, consolidated roadmap guided by a central authority to ensure consistent direction and efficient execution.

He called on ministries and agencies – including the Ministry of Energy Transition and Water Transformation (PETRA), the Ministry of Natural Resources and Environmental Sustainability (NRES), the Economic Planning Unit (EPU) and the Energy Commission (EC) – to align their strategies under a unified national framework.

Disjointed efforts, such as one ministry championing solar while another pushes gas, send mixed signals to investors and hamper coordinated progress.

Both academicians concluded with a sobering yet hopeful message: The window for change is narrowing, but the opportunity is still within reach.

Adlansyah said fuel diversification is not just about energy – it is a matter of sovereignty, affordability, sustainability and economic growth. Meanwhile, Ahmad Farid believes that for Malaysia to remain regionally competitive, the country must adopt a more strategic approach to how electricity is generated and consumed.

Such a transition, however, will not happen within five years. The shift towards a more secure, balanced energy mix will take time – likely over a decade – and requires strong political will, long-term planning and consistent execution.

Malaysia cannot afford to fail or squander the investments it is already making in energy transition. A sound, unified national endeavour is essential to guide this journey forward.

Ultimately, a well-diversified energy mix means more than national resilience – it means fewer blackouts, more stable electricity prices and cleaner environment. For everyday Malaysians, it translates into a better quality of life: Uninterrupted power for homes, schools and hospitals; smarter energy bills; and a sustainable future for generations to come.

Prasarana Surau dan Masjid Terjaga, Jemaah Ceria

05 May 2025 I Malayanewsroom

Cetusan

Prasarana surau dan masjid terjaga, jemaah ceria

Adin M.Nor 5 May 2025

Kerjasama erat semua pihak khususnya dalam kalangan jemaah adalah dituntut agar sedar dan cakna bagi menyelesaikan isu kerosakan prasarana di surau atau masjid.

Oleh: MOHAMMAD SUFIAN ABDUL MANAN & MOHD. RIZAL HANAFI

BAYANGKAN situasi ini, anda hendak menggunakan kemudahan tandas di surau atau masjid sama ada di kariah anda ataupun ketika sedang musafir, alih-alih anda dapati selak pintu sebelah dalam rosak ataupun patah. Kemudian, apabila anda hendak mengepam tandas, anda mendapati pelampung rosak. Tentu anda hampa bukan?

Kamus Dewan Edisi Keempat memberikan definisi prasarana sebagai keseluruhan kemudahan dan perkhidmatan asas yang perlu bagi pembangunan dan kemajuan. Ia bersinonim dengan perkataan infrastruktur, kemudahan awam dan utiliti.

Dalam surah At-Tawbah, ayat 18: *"Hanya yang memakmurkan masjid-masjid Allah ialah orang-orang yang beriman kepada Allah dan Hari Akhirat, yang mendirikan solat, menunaikan zakat dan tidak takut selain kepada Allah."*

Menurut Kamus Dewan (Edisi Keempat), memakmurkan bermaksud: Meningkatkan kemakmuran atau membangunkan.
Menjadikan sesuatu lebih baik atau makmur seperti memajukan keadaan sosial, ekonomi atau budaya.
Menghidupkan atau menjadikan sesuatu tempat lebih aktif dan berkembang, contohnya memakmurkan masjid dengan pelbagai aktiviti keagamaan atau sosial.

Read more:
https://malayanewsroom.com/05/05/2025/prasarana-surau-dan-masjid-terjaga-jemaah-ceria/?fbclid=IwY2xjawKbpm9leHRuA2FlbQIxMQBicmlkETFGdVFQUVBaQndCN0pWVVBTAR7VyiCu_qIPkXKLuwmgYnRJoujsVRe-28OaIS7-_XnoBwZIaveB4tpzeNJR3w_aem_eBI_54fqcmAXI9qbpVoQuA

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22 May 2025 I Bernama

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Suasana Kerja Harmoni: Asas Kualiti dan Produktiviti di Tempat Kerja

28 May 2025 I MalayaNewsRoom

Suasana kerja harmoni: Asas kualiti dan produktiviti di tempat kerja

Kolum – Dicipta: 28 Mei 2025 07:53 AM

Foto hiasan/RTM

SAUDARA PENGARANG

Dalam era ekonomi digital dan persaingan global yang semakin sengit, sesebuah organisasi bukan sahaja memerlukan teknologi canggih atau strategi pemasaran yang hebat, tetapi juga suasana kerja yang harmoni untuk menjamin produktiviti dan mutu kerja yang tinggi. Ini bukan lagi sekadar elemen tambahan, malah ia telah menjadi satu keperluan strategik.

Mengapa Suasana Kerja Harmoni Penting?

Menurut kajian oleh TalentCorp Malaysia dan Khazanah Research Institute (2021), pekerja di Malaysia meletakkan persekitaran kerja yang positif dan menyokong sebagai salah satu faktor utama dalam menilai tahap kepuasan kerja mereka.

Kajian itu juga menunjukkan bahawa pekerja yang bekerja dalam suasana yang harmoni lebih cenderung untuk kekal lama dalam organisasi, menunjukkan prestasi lebih baik dan bersedia menyumbang idea bernas.

Harmoni di tempat kerja merujuk kepada keadaan di mana hubungan antara rakan sekerja, penyelia, dan organisasi secara keseluruhan berada dalam keadaan saling menghormati, saling mempercayai, dan bekerjasama. Ia juga merangkumi faktor emosi dan psikologi pekerja, seperti rasa dihargai, selamat dan bebas daripada diskriminasi atau buli di tempat kerja.

Hubungan dengan Produktiviti

Berdasarkan laporan tahunan oleh Jabatan Perangkaan Malaysia (2023), sektor pekerjaan di negara ini masih berdepan cabaran dari segi produktiviti buruh, khususnya dalam sektor awam dan pentadbiran.

Namun begitu, laporan tersebut turut menekankan bahawa organisasi yang memberi perhatian kepada kesejahteraan psikososial pekerja menunjukkan peningkatan produktiviti sebanyak 8–12% berbanding organisasi yang mengabaikannya.

Dalam sektor korporat pula, syarikat yang mengamalkan dasar keseimbangan kerja dan kehidupan (*work-life balance*) dan komunikasi terbuka dilaporkan mempunyai kadar turnover lebih rendah dan penghasilan kerja lebih konsisten.

Cabaran di Malaysia

Kajian oleh Malaysian Institute of Human Resource Management (MIHRM) pada tahun 2022 mendapati bahawa lebih 60% kes konflik pekerjaan yang dilaporkan berpunca daripada gaya kepimpinan toksik, komunikasi yang lemah dan kurangnya kejelasan peranan dalam organisasi.

Dalam konteks sektor awam, tekanan kerja yang tinggi, kekangan sumber manusia, serta amalan kerja berasaskan hierarki yang terlalu ketat turut menjadi penghalang kepada keharmonian kerja yang tulen. Lebih membimbangkan, keadaan ini boleh menjejaskan kesihatan mental pekerja dan membawa kepada fenomena *burnout*, yang akhirnya merugikan organisasi dari segi masa, kos dan imej.

Read more:
https://berita.rtm.gov.my/laporan-khas/kolum/senarai-berita-kolumnis/senarai-artikel/suasana-kerja-harmoni-asas-kualiti-dan-produktiviti-di-tempat-kerja?fbclid=IwY2xjawKvPJ5leHRuA2FlbQIxMQBicmlkETFNdDY0emNHdGRydlFqeVNrAR79lXfI1e_e3tSNziD9qxp_Z4MDeON8Fwe0_UzoBytJvVXCuIhEFTgI0G8uGw_aem_bqb5X6Mq9doZqJwB7vXhyg

Pelaksanaan Mandatori Pengehad Kelajuan Kenderaan Berat Wajar Disokong

10 June 2025 I Berita RTM

Pelaksanaan mandatori pengehad kelajuan kenderaan berat wajar disokong

Nasional – Dicipta: 10 Jun 2025 10:49 AM

Foto RTM

KUALA LUMPUR, 10 JUN – Pelaksanaan mandatori pengehad kelajuan pada kenderaan berat yang dirangka kerajaan wajar disokong sepenuhnya oleh semua pihak.

Ketua Latihan & Continuous Professional Development (CPD) MITRANS UiTM, Ir. Ts. Dr. Ahmad Khushairy Makhtar berkata, pelaksanaan itu sebagai langkah memperkukuh dasar keselamatan jalan raya dan sepatutnya telah dilaksanakan lebih awal.

Tambahnya, semakin laju sebuah kenderaan, semakin tinggi risiko kemalangan dan impaknya lebih besar.

"Jadi langkah kerajaan untuk mewajibkan speed limiter ini saya dah dengar lama dah sebelum ini lagi. Cuma dari segi penguatkuasaan, apa yang lebih penting daripada mewajibkan itu adalah juga penguatkuasaan dan juga pemantauan kepada speed limiter yang diwajibkan kepada syarikat-syarikat pengendali bas dan sebagainya", Katanya.

Namun, menurut beliau juga, penghad kelajuan sahaja tidak memadai.

Antara cadangan yang turut diketengahkan termasuk penggunaan teknologi pemantauan seperti kamera pemuka (dash cam) secara masa nyata.

"Kalau tanya saya, itu memang tidak cukup tapi untuk langkah segera yang selain daripada speed limiter ini, saya rasa perlu diwajibkan especially kepada kenderaan berat, bas ataupun lori ini adalah teknologi dash cam. Teknologi pemantauan kepada pemandu itu sendiri secara real time. Dan ini boleh juga mengelakkan daripada seseorang pemandu itu daripada melebihi hard limit kerana dia tahu yang dia dipantau oleh majikan dia dan sebagainya. "

Beliau turut menyeru kerajaan agar meningkatkan pelaburan dalam penyelidikan keselamatan jalan raya untuk semua pengguna dan bukan hanya pengendali bas sahaja.

Semalam, Menteri Pengangkutan, Anthony Loke dalam satu kenyataan berkata, kerajaan komited melindungi pengguna jalan raya, terutama daripada ancaman pemandu tidak bertanggungjawab serta kenderaan berat yang tidak memenuhi piawaian keselamatan yang ditetapkan.

Antara dasar yang sedang dirangka termasuklah pelaksanaan wajib 'Pengehad Kelajuan' bagi kenderaan berat.

Polisi ini sedang diteliti secara menyeluruh, termasuk menutup sebarang ruang manipulasi selepas ia dikuatkuasakan kelak.

Read more:
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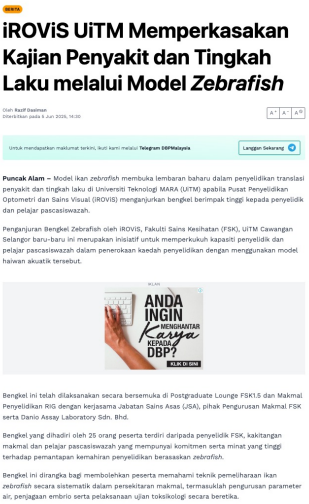
iROViS UiTM Memperkasakan Kajian Penyakit dan Tingkah Laku melalui Model Zebrafish

05 June 2025 | dewankosmik



BERITA

iROViS UiTM Memperkasakan Kajian Penyakit dan Tingkah Laku melalui Model *Zebrafish*

Oleh Rasif Dasiman
Diterbitkan pada 5 Jun 2025, 14:30

A- A A+

Untuk mendapatkan maklumat terkini, ikuti kami melalui **Telegram DBPMalaysia** Langgan Sekarang

Puncak Alam – Model ikan *zebrafish* membuka lembaran baharu dalam penyelidikan translasi penyakit dan tingkah laku di Universiti Teknologi MARA (UiTM) apabila Pusat Penyelidikan Optometri dan Sains Visual (iROViS) menganjurkan bengkel berimpak tinggi kepada penyelidik dan pelajar pascasiswazah.

Penganjuran Bengkel Zebrafish oleh iROViS, Fakulti Sains Kesihatan (FSK), UiTM Cawangan Selangor baru-baru ini merupakan inisiatif untuk memperkukuh kapasiti penyelidik dan pelajar pascasiswazah dalam penerokaan kaedah penyelidikan dengan menggunakan model haiwan akuatik tersebut.

Bengkel ini telah dilaksanakan secara bersemuka di Postgraduate Lounge FSK1.5 dan Makmal Penyelidikan RIG dengan kerjasama Jabatan Sains Asas (JSA), pihak Pengurusan Makmal FSK serta Danio Assay Laboratory Sdn. Bhd.

Bengkel yang dihadiri oleh 25 orang peserta terdiri daripada penyelidik FSK, kakitangan makmal dan pelajar pascasiswazah yang mempunyai komitmen serta minat yang tinggi terhadap pemantapan kemahiran penyelidikan berasaskan *zebrafish*.

Bengkel ini dirangka bagi membolehkan peserta memahami teknik pemeliharaan ikan *zebrafish* secara sistematik dalam persekitaran makmal, termasuklah pengurusan parameter air, penjagaan embrio serta pelaksanaan ujian toksikologi secara beretika.

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https://dewankosmik.jendeladbp.my/2025/06/05/18235/?fbclid=IwY2xjawLS5kpleHRuA2FlbQIxMABicmlkETFHRVlXOUs0RTMyWUwyZHhWAR5EwMdis3dApybCJCoj3dgAb_Cwn1ROUM1k_NAdko6a_-ukWWgGT7xxPTM3vQ_aem_ezp4MEtDBBn0v17-IKCWbg

Invisible Danger: Why Mosquitoes Deserve More Fear Than COVID-19

09 June 2025 | Bernama

File photo

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KKFP Gabung Kepakaran Pelbagai Agensi, Lindungi Sistem Kewangan Negara Daripada Dieksploitasi

19 May 2025 | Buletin TV3


BULETIN TV3 UTAMA TERKINI NASIONAL MAHKAMAH POLITIK JENAYAH SUKAN DUNIA DETIK NIAGA DUNIA SEN

TUMPUAN : h berada dalam negara | Trump dijangka hadir Sidang Kemuncak ASEAN-AS di Malaysia | Tular murid didekati lelaki tidak dikenali di luar pagar sekolah

NASIONAL

KKFP gabung kepakaran pelbagai agensi, lindungi sistem kewangan negara daripada dieksploitasi

19 Mei 2025, 12:51pm

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Tan Sri Azam Baki semasa Majlis Pelancuran Kumpulan Kerja Fraud Perakaunan (KKFP) di ibu negara pagi tadi.

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Sistem Roller, Kabel Serap Hentakan Lebih Baik

13 June 2025 | Berita Harian


Sistem roller, kabel serap hentakan lebih baik

Kuala Lumpur: Jabatan Kerja Raya (JKR) disaran menggunakan penghadang jalan jenis roller yang mudah menyerap hentakan bagi menggantikan penggunaan penghadang sedia ada.

Pengarah Institut Pengangkutan Malaysia (MITRANS) Universiti Teknologi MARA (UiTM) Shah Alam, Prof Madya Ts Dr Wan Mazlina Wan Mohamed, berkata ketika ini penghadang keluli W-Beam banyak digunakan di lebuh raya, jalan negeri dan jalan biasa terutama di selekoh tajam atau kawasan cerun, jambatan serta laluan berbukit.

Beliau berkata, penghadang keluli boleh menyumbang kepada kematian atau kecederaan parah, tambahan pula jika reka bentuk, pemasangan atau penyelenggaraan tidak mengikut piawaian ditetapkan.

"Masalah penghadang keluli adalah ia mempunyai hujung yang tajam atau jika dipotong rata boleh menembusi kenderaan apabila dilanggar secara langsung.

"Kejadian maut sering berlaku apabila kenderaan menusuk masuk ke dalam hujung guardrail (penghadang keselamatan). Di Malaysia, sebahagian besar kes kemalangan maut berlaku apabila penghadang tercabut dan menembusi ruang penumpang seperti yang berlaku baru-baru ni," katanya kepada *BH*, semalam.

Sehubungan itu, Wan Mazlina menyarankan penggunaan beberapa jenis penghadang yang lebih selamat seperti plastik roller bagi menggantikan W-Beam.

Katanya, penghadang roller mampu mengurangkan kemalangan maut sehingga 94 peratus terutama di kawasan berisiko tinggi.

"Penghadang roller mampu menyerap impak hentaman dengan lebih baik, mengurangkan kerosakan pada penghadang dan mengurangkan risiko kecederaan kepada pemandu dan penumpang," katanya.

Katanya, penghadang roller menggabungkan drum atau penggelek berputar yang diperbuat daripada bahan plastik seperti PE (polyethylene) dan EVA (ethylene-vinyl acetate) dengan struktur rel keluli sebagai rangka utama

"Penghadang roller biasanya dilengkapi dengan ciri-ciri visual yang ketara seperti pewarnaan terang dan pencahayaan diri untuk meningkatkan keterlihatan kepada pemandu. Ia dapat mengalihkan kenderaan yang terbabas untuk kembali ke laluan yang betul atau menghentikannya dengan selamat," katanya.

Wan Mazlina berkata, selain penghadang roller, pihaknya juga menyarankan penggunaan penghadang kabel yang lebih selamat untuk kenderaan ringan.

Katanya, penghadang kabel adalah fleksibel dan dapat menyerap impak dengan lebih baik berbanding W-beam.

JENIS PENGHADANG JALAN

1 PENGHADANG KABEL
- Sudah digunakan di beberapa seksyen di Lebuhraya Pantai Timur (LPT) dan Projek Lebuhraya Utara Selatan Berhad (PLUS)
- Lebih selamat untuk kenderaan ringan
- Terdiri daripada 3 hingga 4 kabel logam yang dipasang tegang antara tiang keluli
- Fleksibel dan menyerap impak dengan lebih baik
- Bila berlaku pelanggaran, kenderaan perlahan secara progresif tanpa impak keras

Kelebihan:
- Risiko kecederaan maut lebih rendah
- Sesuai di tengah-tengah lebuh raya (median)
- Lebih murah berbanding penghadang konkrit

2 PENGHADANG JERSEY
- Sesuai di kawasan berkelajuan tinggi dan trafik sibuk
- Diperbuat daripada konkrit bertetulang
- Sangat kuat dan menghalang penembusan kenderaan

Kelebihan:
- Penyelenggaraan rendah (tidak berkarat dan tahan lama)
- Tidak akan menusuk kenderaan seperti guardrail besi (Penghadang keselamatan)
- Stabil walau dilanggar trak berat

Kekurangan:
- Tidak menyerap tenaga, impak keras boleh cedera jika tiada tali pinggang keledar
- Perlukan sistem saliran yang baik untuk elak air bertakung

3 SISTEM PENGHADANG HIBRID (KELULI + GETAH + GEGELUNG)
- Teknologi bahanu dengan sistem penyerap tenaga
- Gabungan besi, getah dan sistem spring yang membengkok semasa impak
- Dapat dilihat di beberapa lebuh raya moden di negara maju

Kelebihan:
- Menyerap impak secara progresif
- Kurangkan risiko terpelanting atau terguling
- Pemulihan automatik (beberapa sistem boleh kembali ke bentuk asal)

4 TERMINAL PENYERAP TENAGA
- Terminal khas di hujung penghadang jalan
- Mengelakkan hujung penghadang daripada menembusi kenderaan
- Direka untuk 'meliput' atau menghancurkan diri secara terkawal

Kelebihan:
- Kurangkan risiko kematian daripada hentaman terus ke hujung guardrail
- Boleh dipasang pada sistem W-Beam sedia ada

5 PLASTIK ROLLER/PENGHADANG POLYMER
- Seperti yang dipasang di Jalan Lapangan Terbang Subang
- Menggabungkan dram atau penggelek berputar yang diperbuat daripada bahan plastik seperti PE (polyethylene) dan EVA (ethylene-vinyl acetate) dengan struktur rel keluli sebagai rangka utama
- Biasanya dilengkapi dengan ciri visual yang ketara seperti pewarnaan terang dan pencahayaan diri untuk meningkatkan keterlihatan kepada pemandu.
- Sesuai digunakan di kawasan berisiko tinggi seperti selekoh tajam, median lebuh raya dan kawasan pembinaan jalan

Kelebihan:
- Mengalihkan kenderaan yang terbabas kembali ke laluan yang betul atau menghentikannya dengan selamat
- Menyelamatkan nyawa dengan menyerap hentakan secara efektif dan menghalang kenderaan terbabas keluar dari jalan

Krisis Minat Terhadap Sains: Implikasi Masa Depan Pendidikan & Pembangunan Negara

17 June 2025 | Sinar Bestari

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Krisis minat terhadap Sains: Implikasi masa depan pendidikan & pembangunan negara

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Bimbing Bakat Muda Jadi Pegawai Awam Berintegriti

18 June 2025 | Berita Harian

Bimbing bakat muda jadi pegawai awam berintegriti

Mohd Rafiz Rahmad, Naib Presiden I, Institut Pengurusan Sumber Manusia Malaysia

Dalam landskap pekerjaan dinamik hari ini, kompetensi bukan lagi sekadar kata kunci, tetapi nadi memacu kemajuan sesebuah organisasi. Ia melangkaui kepepawaian teknikal semata-mata, merangkumi sinergi antara ilmu pengetahuan, kemahiran relevan dan sikap positif serta beretika ketika melaksanakan tugas.

Dalam konteks perkhidmatan awam, dapat disaksikan kemunculan golongan pegawai muda memiliki kelulusan akademik tinggi, memperagakan pemikiran strategik matang, penguasaan kemahiran digital comelang serta kesediaan menggalas tanggungjawab signifikan.

Namun, potensi besar ini tidak semtiasa diberikan ruang sewajarnya untuk berkembang dan menyinar. Realiti pahit sering dihadapi bakat muda adalah prasangka, rasa kurang senang pegawai senior dan lebih menyedihkan, sekatan menghalang kemajuan mereka, meskipun memiliki rekod prestasi membanggakan.

Masih wujud segelintir pihak terperangkap dalam acuan lama, yang mana senioriti diletakkan di atas segalanya, mengabaikan merit dan pencapaian sebenar individu.

Sejarah memberikan kita pengajaran berharga. Kisah Hang Nadim, seorang pemuda bijaksana dan berjaya menyelamatkan Temasik daripada serangan todak, akhirnya dihukum mati hanya kerana kebijaksanaannya menimbulkan rasa iri pembesar istana.

Tragedi ini menjadi cermin bagaimana potensi anak muda boleh dasia-siakan apabila rasa takut dan dengki merajai minda pemimpin.

Sebaliknya, kita juga memunyai contoh gemilang seperti Sultan Muhammad al-Fatih. Pada usia relatif muda, baginda berjaya menakluk Kota Konstantinopel, sebuah pencapaian dianggap mustahil pada zamannya.

Kejayaan baginda bukan hanya bertitik tolak daripada kehebatan kepimpinannya, tetapi didukung akhlak mulia, adab terpuji serserta penghormatan tinggi terhadap ilmu dan golongan lebih tua.

Usia muda bukan penghalang jadi pemimpin

Ini membuktikan usia muda bukan penghalang untuk memimpin, sebaliknya memerlukan kompetensi diiringi dengan nilai dan integriti yang kukuh.

Perkhidmatan awam hari ini berada pada fasa perubahan signifikan. Skim Saraan Perkhidmatan Awam (SSPA) membuka lembaran baharu untuk memperkukuh prinsip keseksaan dan keadilan dalam pembangunan bakat.

Sistem terlalu berpaunng pada senioriti perlu diteliti dan diperbaharui. Individu kompeten, tanpa mengira usia atau hierarki jawatan, harus diberikan peluang selayaknya untuk berkembang dan menyumbang secara maksimum.

Dalam kerangka Malaysia MADANI, terutama melalui prinsip 'Hormat' dan 'Keyakinan', sektor awam seharusnya menjadi pelopor memupuk budaya keterbukaan dan kesediaan memberi ruang kepada bakat baharu.

Golongan lebih senior perlu memainkan peranan sebagai mentor dan pemimpin membimbing. bukan penghalang kepada inovasi dan kemahiran.

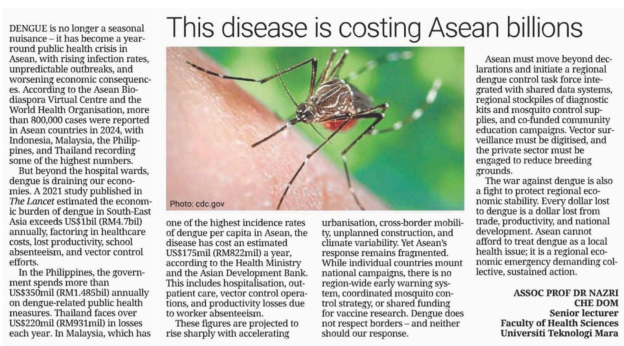
Namun, bakat muda juga perlu menyedari kompetensi tanpa adab dan hormat tidak akan membawa mereka pergi jauh. Kecemerlangan idea harus seiring dengan kesantunan dalam bertindak dan berinteraksi.

Oleh itu, organisasi awam perlu menanamkan dua nilai penting secara serentak yang mana golongan senior berlapang dada dan bersedia menerima perubahan, manakala golongan muda perlu sentiasa menghormati dan menghargai pengalaman mereka lebih tua.

Hanya dengan keseimbangan ini, kita dapat membina barisan kepimpinan pelapis benar-benar berkualiti, memiliki kompetensi tinggi dan integriti.

This Disease is Costing Asean Billions

19 June 2025 | The Star



This disease is costing Asean billions

DENGUE is no longer a seasonal nuisance – it has become a year-round public health crisis in Asean, with rising infection rates, unpredictable outbreaks, and worsening economic consequences. According to the Asean Biodiaspora Virtual Centre and the World Health Organisation, more than 800,000 cases were reported in Asean countries in 2024, with Indonesia, Malaysia, the Philippines, and Thailand recording some of the highest numbers.

But beyond the hospital wards, dengue is draining our economies. A 2021 study published in *The Lancet* estimated the economic burden of dengue in South-East Asia exceeds US$1bil (RM4.7bil) annually, factoring in healthcare costs, lost productivity, school absenteeism, and vector control efforts.

In the Philippines, the government spends more than US$350mil (RM1.485bil) annually on dengue-related public health measures. Thailand faces over US$220mil (RM931mil) in losses each year. In Malaysia, which has one of the highest incidence rates of dengue per capita in Asean, the disease has cost an estimated US$175mil (RM822mil) a year, according to the Health Ministry and the Asian Development Bank. This includes hospitalisation, outpatient care, vector control operations, and productivity losses due to worker absenteeism.

These figures are projected to rise sharply with accelerating urbanisation, cross-border mobility, unplanned construction, and climate variability. Yet Asean's response remains fragmented. While individual countries mount national campaigns, there is no region-wide early warning system, coordinated mosquito control strategy, or shared funding for vaccine research. Dengue does not respect borders – and neither should our response.

Photo: cdc.gov

Asean must move beyond declarations and initiate a regional dengue control task force integrated with shared data systems, regional stockpiles of diagnostic kits and mosquito control supplies, and co-funded community education campaigns. Vector surveillance must be digitised, and the private sector must be engaged to reduce breeding grounds.

The war against dengue is also a fight to protect regional economic stability. Every dollar lost to dengue is a dollar lost from trade, productivity, and national development. Asean cannot afford to treat dengue as a local health issue; it is a regional economic emergency demanding collective, sustained action.

ASSOC PROF DR NAZRI CHE DOM
Senior lecturer
Faculty of Health Sciences
Universiti Teknologi Mara

Exploring Wonders of Northern Meliau Range in Central Sabah

23 June 2025 | BorneoPost

Exploring wonders of northern Meliau Range in Central Sabah

Contributed by Sabah Forestry Department

Introduction

THE ultramafic land in Sabah covers approximately 4.6% of the landmass, highlighting its limited yet significant geographical extent. Although low in nutrient and high in minerals, this area holds considerable biodiversity importance, serving as a critical habitat for hyperendemic plants found exclusively in this region. One of the ultramafic localities in the Beluran district is the Meliau Range, which was formerly a Class II production forest reserve, has been re-gazetted as a Class I protection forest reserve in 2015 due to its significant importance in biodiversity and the provision of ecosystem services. This 22,932 ha-protected area, administered by the Beluran District Forestry Office, is partly bordered by oil palm plantations to the north and the production forest of Ulu Tungud Forest Reserve to the south. Little is known about the northern part of the Meliau Range Forest Reserve (FR) in central Sabah, unlike the southern part, which was explored 20 years ago. Hence, an expedition to study the flora and fauna, as well as the communities living near the northern part of the Meliau Range was organised by the Forest Research Centre (FRC) of the Sabah Forestry Department (SFD), in April, 2025. As emphasized by the Chief Conservator of Forests, Datuk Frederick Kugan, such documentation of biodiversity and communities would provide essential baseline information for the department's sustainable forest management, under the Heart of Borneo Initiative. The expedition was led by Mr John Sugau and Mr Razy Japir from FRC Sepilok, with assistance from Mr Abdul Jamal Ibrahim, Beluran District Forestry Officer, and his assistant, Mr Moses Matuin. SFD researchers conducted various research disciplines during the expedition. Researchers from the Forest Research Institute Malaysia (FRIM) and UiTM also participated on selective collaborative projects with SFD.

Soils and topography

The locality features rugged mountains and hills with steep slopes and sharp ridges, making landslides a common occurrence. The soils mainly originate from ultramafic rocks characterised by high magnesium and iron content but low silica content. These soils are typically thin and contain high concentrations of heavy metals, like nickel, chromium, and cobalt, which can be detrimental to many plant species. Essential nutrients, such as calcium, potassium, and phosphorus are often deficient in these soils. Despite these challenging conditions, certain plant species have adapted to thrive in ultramafic environments (known as serpentinophytes), leading to the development of unique plant communities with a high degree of endemism.

Forest Ecosystems

The Meliau Range FR comprises four main forest ecosystem types, namely Lowland Mixed Dipterocarp Forest, Lowland Ultramafic Forest, Upland Ultramafic Forest, and Lower Montane Ultramafic Forest. In the northern part of the reserve, the low-lying areas near the boundary have been significantly impacted by past logging activities. In contrast, the upland ultramafic forest shows minimal disturbance, with two distinct conditions observed between 400 and 700 metres above sea level: shallow, rocky soils support smaller tree structures, while areas with deeper soils support larger trees. Around 700 metres above sea level, a transition to lower montane forest is marked by the presence of mosses growing on dead logs and the base of trees. Overall, aside from the low-lying areas, the northern part of the Meliau Range retains an intact ultramafic ecosystem that is unique to Sabah and the island of Borneo.

Plant Diversity

A total of 168 herbarium specimens were collected during the expedition and are in the process of identification. Among these collections, there may be at least two potentially undescribed species from the Rubiaceae and Araceae families. A researcher from FRIM also discovered one interesting fern species, Sphaerostephanos sp. but yet to be identified. Other interesting botanical findings were the Sabah endemic pitcher plant (Nepenthes macrovulgaris), which is restricted to ultramafic areas and the Borneo endemic pitcher plant (Nepenthes veitchii), which is a robust plant with a unique tree climbing habit. The rare Chewlunia sabahensis (Rubiacae) is also found there. Interestingly, Seraya kuning keladi, Richetia laxa (Dipterocarpaceae), which is endemic to the northern parts of Borneo and a Vulnerable species, is very common around the area. In Sabah, this species is only known from the central part of Sabah in Beluran and Tongod districts. The team from UiTM recorded six nickel hyperaccumulator plant species. These include Phyllanthus balgooyi (Phyllanthaceae), which has the second highest concentration of Ni (with more than 16% with Ni) in any living material in the world, after Pycnandra acuminata (Sapotaceae) from New Caledonia, which contains 25% Ni in its latex. P. balgooyi thrives in semi-open areas on ridges within the Meliau Range. Besides plants, a fungal survey was conducted, recording diverse species. These findings mark new fungal distribution records for Meliau Range FR, highlighting the area's previously undocumented fungal biodiversity. Notably, a species of Amauroderma was recorded, adding significant value to Meliau's biodiversity as no previous records existed for this genus in the area. Other interesting findings include the delicate Mycena, leathery Microporus, colourful Russula, elegant cup fungus Cookeina, and the blackened wood-decomposer Xylaria.

Wildlife Diversity

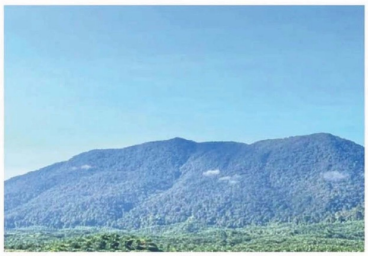
The expedition documented 18 mammal species from 11 distinct families. Among these, the Red-leaf Monkey and the Thick-spined Porcupine are exclusive to Borneo. Six recorded species are deemed threatened according to the IUCN Red List, including the Vulnerable Red-leaf Monkey, which is endemic to Borneo. Poaching presents a continuing threat, as signs of wildlife traps were found near the reserve's border. Furthermore, illegal littering, particularly plastic waste, has been observed within the reserve. During the bird survey, a total of 90 bird species were documented, including 1 Critically Endangered, 4 Vulnerable, and 16 Near Threatened species according to the IUCN Red List. Among the most significant records were two Vulnerable hornbills—the Rhinoceros (Buceros rhinoceros) and the Black Hornbill (Anthracoceros malayanus)—which rely on large, mature trees for nesting and foraging. Their presence indicates that elements of primary forest structure continue to exist in the landscape. Near Threatened-listed species, such as the Red-naped and Diard's Trogons, Great Argus, and Bornean Black Magpie further suggest that the forest maintains sufficient canopy continuity and vertical complexity to support birds associated with intact lowland forest. Particularly noteworthy was the detection of the Critically Endangered Malaysian Blue-banded Kingfisher (Alcedo peninsulae), a species closely linked to undisturbed, shaded streams. Its presence emphasises the hydrological integrity of the site and enhances the conservation significance of Meliau Range. The species richness and diversity of freshwater fish and anurans were studied specifically along the tributaries of the Tungud River. The assessment documented a total of 33 freshwater fish and frog species, consisting of 15 fish and 18 anurans. Notably, the findings highlight the ecological significance of the area as a refuge for several Bornean endemic species. Among the fish recorded, nine species are endemic to Borneo, with Lobochellos erinaceus and Gastromyzon borneensis currently listed as Near Threatened according to the IUCN Red List, emphasising the need for ongoing monitoring and habitat protection in the region. A total of 12 Bornean endemic species of anurans were recorded. Of particular conservation interest is Meristogenys jerboa, which is currently listed as Vulnerable by the IUCN. Its presence in Meliau Range calls for proactive measures to safeguard the area's ecological integrity. The diversity and presence of both endemic and threatened species suggest that the riparian ecosystems within the Tungud River remain relatively intact and healthy. For the insect survey, one notable insect thu has been recorded is the Bornea endemic damselfly, Libellag phaeton. This species belong to the family Chlorocyphida and is currently listed as Nea Threatened on the IUCN Red Lis Other Bornean endemic insect are a moth from the famil Erebidae, Micromorphe oculat and a flower chafer, Ixorid regia bicolor. The 'exploding ant' Colobopsis saundersii, was alsc recorded here. It is a unique ant that is willing to sacrifice itsell when it is threatened. Its defence mechanism involves secreting a sticky, toxic fluid from the body It is so called because it appears to explode when releasing the yellow secretion from its body.

Socio-economic aspects

The findings revealed that the stakeholders operating near the Meliau Range FR including plantation companies demonstrate a significant reliance on the natural wate resources flowing from the forest reserve. Rivers originating from the Meliau Range serve as critical water sources not only for estate operations — such as daily use, agricultural activities and domestic supply — but also for surrounding communities These include various villages that depend on clean river wate for their daily needs. Across the board, plantation representatives acknowledged the importance of these rivers in sustaining both livelihoods and ecosystem balance. Their awareness of the forest's ecological role extends beyond water, as they recognise the Meliau Range as a critical habitat for wildlife, a source of clean air, and a potential ecotourism asset. Despite some operational challenges, such as human-wildlife conflict and unclear boundaries, stakeholders collectively voiced support for preserving the forest reserve.

Conclusion

This scientific expedition is essential for gathering first-hand information for forest conservation. The reserve boasts exceptional biodiversity and is home to numerous endemic and threatened species. Datuk Kugan elaborated that the discoveries and findings will further bolster Sabah's reputation as a global biodiversity hotspot and highlight the importance of protecting the lesser-known life forms in Borneo's rainforests. The reclassification of Meliau Range Forest Reserve as a Class I forest reserve is a prudent decision by the Sabah Forestry Department to preserve and conserve these high-conservation-value forests.



Bukit Masasau is one of the highest hills in the northern part of the Meliau Range, with an elevation of over 800 metres.

Read more:

https://www.theborneopost.com/2025/06/19/exploring-wonders-of-northern-meliau-range-in-central-sabah/?fbclid=IwY2xjawLS5exleHRuA2FlbQIxMABicmlkETFHRVlXOUs0RTMyWUwyZHhWAR5EwMdis3dApybCJCoj3dgAb_Cwn1ROUM1k_NAdko6a_-ukWWgGT7xxPTM3vQ_aem_ezp4MEtDBBn0v17-IKCWbg

Book Tube
JPI

BOOKTUBE #6 - ANAK AUTISME: TERAPI DAN SOKONGAN EDISI KEDUA

21 April 2025

BOOKTUBE #7 - BUSINESS PLAN WORKBOOK : A STEP-BY-STEP GUIDANCE

07 May 2025

Watch here:
https://www.youtube.com/playlist?list=PLJkQisjLy3B73OPlKJWscBHfR4zk7XL5R

RESEARCH PODCAST
JABATAN PENYELIDIKAN & INOVASI UiTM

Bahagian 1 : **KAJIAN ANGKASA & KESAN KEPADA KEHIDUPAN SEHARIAN**

Watch here: https://www.youtube.com/watch?v=9JTUtnwoFJc

Bahagian 2 : **PERKEMBANGAN KAJIAN TEKNOLOGI ANGKASA & PELUANG GERAN PENYELIDIKAN ANGKASA**

Watch here: https://www.youtube.com/watch?v=JFHO-9bvOeI

JPI ACTIVITIES

April - June 2025

UiTM Global's Courtesy Visit to JPI

11 April 2025 | Bangunan Canseleri, UiTM Shah Alam, Selangor

JPI received a courtesy visit from a UiTM Global delegation led by Assoc. Prof. Datin Dr. Norazida Mohamed, Assistant Vice-Chancellor of UiTM Global. This visit was welcomed by YBrs. Prof. Ts. Dr. Norazah Abd. Rahman, Deputy Vice-Chancellor (Research and Innovation), UiTM.

This meeting session provided space for strategic discussions regarding efforts to strengthen the university's ranking through research and innovation, including international collaboration, researcher mobility, as well as publications and projects with global impact. The synergy between UiTM Global and JPI is hoped to continue to strengthen UiTM's position in the international education and research landscape.

JPI's visit to UiTM Kedah Branch

13 April 2025 I UiTM Kedah Branch

An official visit by the JPI, led by the Deputy Vice-Chancellor (Research & Innovation), Prof. Ts. Dr. Norazah Abd Rahman, was held at UiTM Kedah Branch to assess the development, potential, and progress of research and innovation at the branch campus.

The visit began with a discussion with the State Executive Committee and a welcome address by the Rector of UiTM Kedah Branch, Prof. Dr. Roshima Haji Said. This was followed by a presentation on the achievements and strategic direction of Research, Publication, and Innovation at UiTM Kedah, delivered by Assoc. Prof. Dr. Rizaimy Shaharuddin, Deputy Rector for Research, Industry Network, Community & Alumni, UiTM Kedah Branch.

The programme continued with an Engagement Session with Researchers at the UiTM Kedah Main Hall. The session opened with a briefing on the roles and functions of key units under the Research & Innovation Department, namely the Research Management Centre (RMC), Research Nexus UiTM (ReNeU), Business Innovation & Technology Commercialization Centre (BITCOM), and UiTM Press (PENERBIT UiTM).

These presentations were delivered by the respective directors: Prof. Dr. Nor Azura Abd Ghani (Director of RMC), Prof. Ts. Dr. Asmah Awal (Director of ReNeU), Dr. Muhamad Helmi Muhamad Khair (Director of BITCOM), and Prof. Sr. Ts. Dr. Zulhabri Ismail (Director of UiTM Press).
The visit concluded with a keynote address by Prof. Ts. Dr. Norazah Abd Rahman, followed by a question-and-answer session and an informal dialogue with UiTM Kedah researchers. It is hoped that through collective effort and dedication, especially in strengthening research and innovation, UiTM will continue to enhance its excellence and visibility.

MeTPI-13 2025

14-18 April 2025 I
Hotel Bayview, Batu Ferringhi,
Pulau Pinang

From 14–18 April 2025, the Mesyuarat Timbalan Naib Canselor (Penyelidikan & Inovasi) bersama Dekan (Penyelidikan & Inovasi), Timbalan Dekan (Penyelidikan & Jaringan Industri), dan Timbalan Rektor (Penyelidikan & Inovasi) (MeTPI-13) was successfully held in Penang.

This programme aimed to gather all research and innovation management representatives across UiTM under one platform to review progress, strategize, and identify key actions—particularly in advancing UiTM's research and innovation initiatives to the international arena. The meeting was aligned with UiTM's Globally Renowned University 2025 target.

The programme commenced with a Post MeTPI-12th summary session and a scene-setting briefing This was followed by a comprehensive briefing on UiTM's research ecosystem by four division directors from the Research & Innovation Department: ReNeU, Research Management Centre (RMC), PENERBIT UiTM, and Business Innovation & Technology Commercialization Centre (BITCOM).

The programme was spearheaded and coordinated by Programme Director ChM. Dr. Shahrul Nizam Ahmad, ensuring the seamless organisation and impactful outcomes of MeTPI-13.

UiTM Aidilfitri Celebration 2025

15 April 2025 | Dewan Agung Tuanku Canselor (DATC)
UiTM Shah Alam, Selangor

Majlis Sua Raya Aidilfitri UiTM was held at Dewan Agung Tuanku Chancelor (DATC), UiTM Shah Alam with the theme *"Silang Budaya, Raya Ceria".*

This year, Department of Research & Innovation (JPI) was involved in organizing the *Majlis Sua Raya Aidilfitri* UiTM with booth decorations themed Indian culture in line with the food menu provided.

The JPI booth was also visited by the Chairman of the University Board of Directors, the Vice Chancellor of UiTM accompanied by the University Executive Management and the University Senior Management. The excitement of the JPI booth was the result of the collaboration of all Departments & Units under the JPI.

Industry Visit by Department of Research & Innovation UiTM in Penang

16 April 2025 I Pulau Pinang

The third day of *Mesyuarat Timbalan Naib Canselor (Penyelidikan & Inovasi) bersama Dekan (Penyelidikan & Inovasi), Timbalan Dekan (Penyelidikan & Jaringan Industri) dan Timbalan Rektor (Penyelidikan & Inovasi)* (MeTPI-13) in Pulau Pinang.

The program continued with visits by participants to six (6) industry targets such as;

1. Northern Corridor Economic Region (NCER)
2. Jambatan Kedua Sdn Bhd
3. Aemulus Corporation Sdn. Bhd.
4. Penang Skills Development Centre (PSDC)
5. CG Computers Sdn Bhd
6. Ruza Agrotech Kulim

The purpose of this visit session is to strengthen strategic relationships between academia and industry as well as explore collaboration opportunities in the field of research and development (R&D). In addition, this opens up space for sharing knowledge and expertise between both parties.

UiTM Strengthens Strategic Collaboration with NCER in Penang

16 April 2025 I Pejabat Wilayah Ekonomi Koridor Utara (NCER), Pulau Pinang

On 16 April 2025, a delegation from Universiti Teknologi MARA (UiTM) led by Professor Ts. Dr. Norazah Abd Rahman, Deputy Vice-Chancellor (Research and Innovation) paid a courtesy visit to the Northern Corridor Economic Region (NCER) office, Penang. The visit aimed to explore the potential for strategic collaboration in the fields of research and innovation as well as talent and industry development that can impact the country's socio-economic development, especially in the Northern Corridor Economic Region (Penang, Kedah, Perlis and Perak).

This visit was planned in conjunction with *Mesyuarat Timbalan Naib Canselor (Penyelidikan & Inovasi) bersama Dekan (Penyelidikan & Inovasi), Timbalan Dekan (Penyelidikan & Jaringan Industri) dan Timbalan Rektor (Penyelidikan & Jaringan Industri)* (MeTPI-13) 2025 which was held from 14 to 18 April 2025 in Pualu Pinang this year.

UiTM delegation was also joined by Senior Management from the JPI including Division Directors, HICoE and CoE from various fields of expertise. The UiTM delegation was warmly welcomed by Datin Shahdee Dato' Ahmad, Director of the Business Ecosystem Department along with Senior Management from the Business Ecosystem Department and the NCER Investment Department. This session opened up a space for sharing ideas and offering value that UiTM can contribute in strengthening the research and innovation ecosystem at the regional and national levels. NCER also shared the organization's main focus in stimulating investment, developing high-impact industries and strengthening human capital development through various NCER Entrepreneur Sustainable Transformation (NEST) Programme and Advanced Technology Meister Programme (ATMP) programmes.

Among the main discussions raised were the potential for collaboration in research that is in line with industry needs in NCER, the development of new technologies, and the matching of UiTM expertise with NCER development projects in sectors such as high-value manufacturing, modern agriculture, and sustainable technology. UiTM also expressed its commitment to playing an active role in supporting the regional development agenda through its academic and research expertise. This visit reflects UiTM's continued efforts in establishing strategic relationships with government agencies and industry in order to expand the impact of research on society and increase the university's visibility at the national level. It is hoped that this collaboration will be officially signed in the near future through initiatives that will be planned and are expected to benefit all parties involved

UiTM Industry Visit to Jambatan Kedua Sdn Bhd (JKSB)

16 April 2025 l Jambatan Kedua Sdn. Bhd. (JKSB), Pulau Pinang

On 16 April 2025, an industry visit was held to Jambatan Kedua Sdn Bhd (JKSB) by academic representatives from Universiti Teknologi MARA (UiTM). The visit involved several lecturers led by Professor Sr. Dr. Zulkiflee Abd Latif, Dean (P&I), College of Built Environment Studies to establish strategic relationships between the academic world and industry, especially in the field of infrastructure and transportation technology.

JKSB is the entity that manages the Sultan Abdul Halim Muadzam Shah Bridge (Penang's second bridge), one of the country's mega infrastructure projects. The visit served as an important platform for bilateral discussions, knowledge transfer and exploration of potential future collaborations. Representatives from JKSB were led by Mr. Hussin Mohammad, Head of JKSB's Operations Division, Ir. Yulinar Bte Ismail, Senior Manager of JKSB's Maintenance Department, Puan Siti Hasliza Abdul Rashid, Manager, Office of the Head of JKSB's Operations Division and Mr. Mohd Najib Abdul Rahman, Head of JKSB's Department & Highways Unit. The UiTM delegation presented the expertise and research potential that can be offered to the industry while the JKSB company shared information related to bridge management operations. The participants were taken to visit the main monitoring room and were shown the use of AI technology and smart cameras. As a result of observation and evaluation, the use of AI technology in the bridge monitoring system was among the most prominent, the monitoring of each bridge structure was carried out systematically and carefully, the efficient and professional bridge management and JKSB's openness to cooperation and human capital development as well as R&D.

This visit has successfully opened up a space for discussion and in-depth understanding of the role of industry in supporting national development, especially in the field of infrastructure. It also proves that collaboration between higher education institutions and the industry sector is very important to address current challenges and ensure sustainable development. UiTM sees this visit as a positive starting point towards closer cooperation, especially in the aspects of joint research, skills training, and technology transfer. Among the recommendations that have been made from the results of this visit are:

a. Establish a special team between UiTM and JKSB to explore joint R&D projects.
b. Organize periodic workshops between academia and industry.
c. Expanding participation to students.
d. Detailing areas of expertise from UiTM that can be directly integrated into industry needs.

Strategic Collaboration Between UiTM and CG Computers Sdn Bhd Strengthens Research and Innovation Ecosystem

16 April 2025 I CG Computers Sdn. Bhd., Pulau Pinang

On 16 April 2025, a delegation from Universiti Teknologi MARA (UiTM) led by Prof. Ir. Ts Dr Mohamad Hafiz Mamat, Deputy Rector (PJI), UiTM Selangor Branch made an industry visit to CG Computers Sdn Bhd or known as Switch, the largest IT retailer in Malaysia. This visit was conducted in conjunction with *Mesyuarat Timbalan Naib Canselor (Penyelidikan & Inovasi) bersama Dekan (Penyelidikan & Inovasi), Timbalan Dekan (Penyelidikan & Jaringan Industri) dan Timbalan Rektor (Penyelidikan & Jaringan Industri)* (MeTPI- 13) 2025 which was held from 14 to 18 April 2025 in Pulau Pinang this year.

The visit aimed to hold strategic discussions and exchange of views to strengthen collaboration in research and innovation activities in addition to attractive installment purchase offers for students and educational development programs carried out at UiTM Penang Branch. This effort is a continuation of the Memorandum of Understanding (MoU) signed between UiTM and CG Computers Sdn Bhd on 15 January 2024.

UiTM delegation was also joined by Prof. Dr. Razana Juhaida Johari, Deputy Dean (P&I) of the Faculty of Accounting, Assoc. Prof. Ts. Dr. Saiful Izwan Suliman, Head of the Research & Innovation Data Unit, Research Management Centre (RMC), Assoc. Prof. Dr. Mohd Rizaimy Shaharudin, Deputy Rector (PJI), UiTM Kedah Branch, Assoc. Prof. Dr. Shamila Mohamed Shuhidan who is the Dean (P&I) of the College of Computing, Informatics and Mathematics Studies (KPPIM), Dr. Norzieha Mustapha, Deputy Rector (PJI), UiTM Kelantan Branch, Puan Khairunnisa Musa, Head of the ICT Unit and also Puan Norazlin Suboh, Head of the Research Operations Unit, RMC.

The delegation was warmly welcomed by Mr. Karim Jerome Bahari, Advocacy Manager, Mr. Moses Kwok, Corporate Sales Executive and Mr. Mohammad Hafeez Danial, Higher Education Advocacy Lead, CG Computers Sdn Bhd.

Among the main discussions included efforts to intensify training, educational development and provision of facilities for UiTM residents. In addition, also discussed was the sharing of expertise in Artificial Intelligence (AI), Augmented Reality (AR) technology and application development using Apple technology with UiTM. CG Computers Sdn Bhd also offers lecturer attachment and industrial training opportunities for UiTM students.

The UiTM delegation also explained the opportunities for collaboration through direct involvement between researchers and industry as strategic partners in technology transfer, problem solving and tax reduction incentives for industry through Matching Grants. It is hoped that this collaboration will benefit the community and further strengthen the research and innovation ecosystem at the university.

UiTM Industry Visit to Penang Skills Development Center (PSDC)

16 April 2025 I Penang Skills Development Centre (PSDC), Pulau Pinang

An industry visit to the Penang Skills Development Centre (PSDC), was carried out as one of the agendas of the *Mesyuarat Timbalan Naib Canselor (Penyelidikan & Inovasi) bersama Dekan (Penyelidikan & Inovasi), Timbalan Dekan (Penyelidikan & Jaringan Industri) dan Timbalan Rektor (Penyelidikan & Jaringan Industri)* 13 (MeTPI – 13). The PSDC welcomed the UiTM delegation who attended by giving a briefing and a visit to the PSDC training laboratory and workshop for half a day.

PSDC is a well-known skills development centre in Malaysia. It provides technical and vocational training to students and industry workers in various fields such as automation, information technology, engineering and so on. Among the activities carried out during the visit included:

- Briefing by PSDC representatives on the history and role of the centre.
- Visit to the training laboratory and technical workshop.
- Demonstration of the use of high-tech machines.
- Question and answer session with lecturers and industry representatives.
- Sharing of experiences by staff as lecturers at PSDC.

This industry visit aims to provide exposure to UiTM staff regarding the real working environment in the industry as well as to get to know the latest technology and skills offered by PSDC. It also aims to strengthen the relationship between educational institutions and the industry. This visit provides various benefits to the participants, including:

- Increasing knowledge and understanding regarding the latest technical skills.
- Understanding the needs and requirements of today's industry.
- Increasing staff motivation to achieve excellence in the field they are involved in.
- Establishing a network of cooperation between educational institutions and industry.

PSDC is also one of the first learning institutions in Malaysia to offer an industry-driven training centre and is one of the most sought-after education and training providers for students or industry workers in the field of skills. PSDC has over 260 domestic and international industry partners to support the academic programmes offered to make engineering a top choice for careers. PSDC promises the following:

- 100% Employability Commitment
- over 260 industry partners
- Industry Aligned Curriculum
- Industry Preferred Certification
- Further Education Opportunities
- Industry Preferred Certification

PSDC offers academic fields for:

- School of Engineering
- Applied Engineering
- German Dual Vocational Training (GDVT)

PSDC was represented by Dr. Hari Narayanan, Chief Executive Officer and Mr. Mohd Hisham Abdul Mutalib, Senior Manager Government Relations. Meanwhile, UiTM was led by Professor Ts. Dr. Johan Eddy Luaran along with a UiTM delegation from group 4 attended and fulfilled the PSDC briefing and industry visit agenda at MeTPI – 13.

The visit to PSDC has successfully achieved the set objectives. The presence of UiTM staff showed high interest throughout the visit and gained a clearer picture of careers in the technical and vocational fields. It is hoped that such visits can be continued in the future to provide more knowledge about the programs offered by the industry to students, industry workers and the community.

Strategic Collaboration Between UiTM and Aemulus Corporation Sdn. Bhd

16 April 2025 | Aemulus Corporation Sdn. Bhd, Pulau Pinang

On 16 April 2025, an industry visit was held to Aemulus Corporation Sdn. Bhd. located in Penang. This visit involved the participation of several lecturers from Universiti Teknologi MARA (UiTM), as academic representatives of the institution. The main purpose of this visit was to establish strategic relationships between academia and industry, especially in the field of engineering. It also provided the lecturers with an opportunity to better understand the needs and current technological developments in the industrial sector, as well as explore potential collaborations that can be utilized for curriculum development, joint research, and student placement for industrial training. This visit reflects UiTM's commitment to strengthening industry networks in order to improve the quality of higher education in line with current market requirements.

The results of this visit brought about a collaboration in several essences, including:

- Implementation of an industrial training program, which is expected to provide mutual benefits in terms of human capital development and improving student skills.
- Aemulus becomes a guest lecturer for the syllabus that will be improved
- Providing course training to academics through TOT (train of trainer) so that knowledge and expertise transfer activities can be carried out
- Establishing collaboration in grant application activities at the national level with Aemulus becoming an industry partner
- Proposal for sponsorship activities by Aemulus in the form of equipment or expertise for tax reduction purposes (DTD)

UiTM Industry Visit to Ruza Agrotech Kulim

16 April 2025 | Ruza Agrotech, Pulau Pinang

Group 6 of MeTPI-13 Industry Visit to Ruza Agrotech located at Jalan Kampung Sungai Limau, Kedah. This visit is part of the MeTPI-13 program aimed at providing participants with exposure to the agrotourism industry as well as collaboration opportunities involving UiTM and Ruza Agrotech.

This visit was led by Prof. Dr. Wan Mohd Nazri Wan Abdul Rahman, Deputy Rector of PJI UiTM Pahang Branch with 18 participants consisting of MeTPI-13 participants and 2 secretariat staff from UiTM Pulau Pinang. Ruza Agrotech was represented by Mrs. Faezah Fahmi Binti Ahmad, Ruza Agrotech Events & Accommodation Division Officer.

In the briefing session, Ruza Agrotech provided information on the agrotourism field it is involved in, the facilities and amenities provided as well as other industries that Ruza Agrotech is involved in, namely the manufacturing industry, downstream agricultural products, durian plantations and the OEM product industry under the Ruza Manufacturing label. Participants also had the opportunity to see the facilities and amenities provided and the main attractions of Ruza Agrotech such as local and foreign animal exhibitions through a site visit session provided by Ruza Agrotech.

The main findings and results of this visit were:

- The combination of academia (JPI UiTM) and industry (Ruza Agrotech) will open up opportunities for improving Ruza Manufacturing product materials.
- Ruza Agrotech already has its own products, only improvements are needed in terms of promotion, packaging, product logos which can be done in collaboration with UiTM.
- Collaboration opportunities in the Internet of Things (IOT).
- Ruza Agrotech has local raw materials, innovation opportunities with UiTM.
- Proposal to invite Ruza Agrotech as a judge for a student innovation competition.
- SDG exploration related to the use of materials such as rice husks to produce animal models and plant sculptures at Ruza Agrotech.
- UiTM has experts who can assist Ruza Agrotech in identifying herbs, advisory services from planting to harvesting agro products.
- UiTM is ready to collaborate to help with promotions, social media, improving Ruza Agrotech's corporate video.
- Ruza Agrotech welcomes collaboration from UiTM industrial training students, collaboration to improve aspects of farming, tourism and others.

This visit ended with a souvenir exchange session from UiTM and Ruza Agrotech as well as a commemorative photo session.

Research Management Centre (RMC) official visit to Felda Bukit Sagu Animal Feed Factory

21 April 2025 I Felda Bukit Sagu, Kuantan, Pahang

On 21 April 2025, the Research Management Centre (RMC) conducted an official visit to the Felda Bukit Sagu Animal Feed Factory led by Prof. Azura, Director of the Research Management Centre (RMC), together with Assoc. Prof. Dr. Mohd Lokman, and Assoc. Prof. Dr. Shamsiah, Head of the Research Acquisition Units. The visit's main objective was to explore opportunities for strategic collaboration between Universiti Teknologi MARA (UiTM) and FGV in research and development (R&D).

During the visit, the factory management, led by Mr Zainudin Isa (Head, Operations Non Food Animal Feed Specialist) and assisted by Mr Mohamad Ammar Sulaiman (Assistant Factory Manager), shared valuable insights into their operations, feed processing technologies, and challenges faced within the animal feed industry. Through detailed discussions, several potential collaborative research areas were identified, including innovation in animal feed formulations, the utilization of local raw materials, and the enhancement of sustainable production processes.

Opportunities to secure research grants to support joint projects were also discussed, aiming to generate tangible benefits for both UiTM and FGV. This initiative aligns with the broader aspiration to strengthen academia-industry relations, commercialize research outcomes, and contribute meaningfully to the development of Malaysia’s agri-food sector.

The visit further paved the way for future collaborations, including knowledge exchange programs, industrial training placements for students, and industry-focused research initiatives. Overall, the visit was highly successful and is expected to serve as a catalyst for a strong and sustainable partnership between UiTM and FGV.

Workshop on Strengthening International Indexing and Consolidation of UiTM Journals 2025

23 - 25 April 2025 I
ILD Bandar Enstek, Negeri Sembilan

Workshop on Strengthening International Indexing and Consolidation of UiTM Journals 2025, which was officiated by YBhg. Prof. Ts. Dr. Norazah Abd Rahman, held at ILD Bandar Enstek, Negeri Sembilan, successfully starting from 23 to 25 April 2025. With close collaboration through JPI, in addition to the workshop, an awards night session was also included as the start of the workshop on the night of 23 April 2025 with 55 types of awards to award recipients from among the 55 registered UiTM Journals (UiTM Journal Consortium).

The awarding session was graced by the presence of YBhg. Prof. Ts. Dr. Norazah Abd Rahman together with YBrs. Professor Sr. Ts. Dr. Zulhabri Ismail as Director of UiTM Publishing and YBrs. Professor Dr. Nor Azura Md Ghani as Director of the Research Management Centre (RMC).

The performance of journals is regulated through *Jawatankuasa Pengukuhan Jurnal dan Buku Penyelidikan Universiti* (JPJBP) and *Jawatankuasa Induk Penyelidikan dan Inovasi Universiti* (JKIPU) with visible results on increasing MyCite indexing in addition to strengthening the direction and strategy of the UiTM Journal Consortium on international indexing of journals such as Scopus, WoS and other recognized indexing.

Guest speakers as subject matter experts from the Ministry of Higher Education (KPT) (MyCite Journal Indexing Technical Committee), YBrs. Prof. Madya Ts. Dr. Hj. Muhamad Hj Mat Noor who is also from Universiti Malaysia Pahang, in addition to internal speakers consisting of Ir. Dr.-Ing. Amizon binti Azizan as Chairman of the University JPJBP and Head of the Ethics and Publishing Unit, RMC, UiTM together with YBrs. Professor Sr. Ts. Dr. Zulhabri Ismail as Director of UiTM Press, have contributed towards strengthening international indexing and consolidating UiTM journals at the 2025 workshop.

Thanks are given to the members of the JBJPB who are also workshop committee members consisting of Ir. Dr.-Ing. Amizon binti Azizan, Professor Sr. Ts. Dr. Zulhabri Ismail, Professor Dr. Nor Azura Md Ghani (Director of RMC), Prof. Jamaludin Mahmud, Assoc. Prof. Dr. Kaarthiyainy Supramaniam, Professor Dr. Voon Boo Ho, Professor Dr. Tan Peck Leong, Dr. Intan Salwani Mohamed, Dr. Hajah Zalifah Awang Zakaria (PTAR), Mr. Mohd Izarul Anwar Mat Isa (UEP, RMC), Mrs. Nur Jannah Abd Malib (Penerbit UiTM), Mr. Muhammad Sufian Abdul Manan (Penerbit UiTM), Mrs. Nur Shahidah Atemin (UEP, RMC), Mr. Aimi Syahrul Che Aziz (UiCT) including Mr. Muhammad Ammar Khaizuan (UKKP).

The highest appreciation is also given to the UiTM Journal Consortium which includes up to now 55 UiTM journals registered through the presence of the Editor-in-Chief or representative of the UiTM Journal which consists of Academic Journal of Business and Social Sciences (AJoBSS), Advances in Business Research International Journal (ABRIJ), ASEAN Entrepreneurship Journal (AEJ), Asia-Pacific Management Accounting Journal (APMAJ), Asian Journal of University Education (AJUE), Built Environment Journal (BEJ), Compendium of Oral Science (COS), e-Academia Journal (e-AJ), E-Journal of Islamic Thought and Understanding (E-JITU), e-Journal of Media and Society (e-JOMS), ESTEEM Academic Journal (EAJ), ESTEEM Journal of Social Sciences and Humanities (EJSSH), Gading Journal for the Social Sciences (GJSS), Idealogy Journal (IdJ), Insight Journal (IJ),

International Journal of Art and Design (IJAD), Journal of Information and Knowledge Management (JIKM), International Journal of Modern Languages and Applied Linguistics (IJMAL),

International Journal of Service Management and Sustainability (IJSMSust), International Journal on e-Learning and Higher Education (IJELHE), Journal of Islamic Philanthropy and Social Finance (JIPSF), Journal of Academia (JoA), Journal of Administrative Science (JAS), Journal of Clinical and Health Sciences (JCHS), Journal of Computing Research and Innovation (JCRINN), Journal of Contemporary Islamic Studies (JCIS), Journal of Creative Practices in Language Learning and Teaching (CPLT), Journal of Electrical & Electronic Systems Research (JEESR), Journal of Emerging Economies and Islamic Research (JEEIR), Journal of International Business, Economics and Entrepreneurship (JIBE), Journal of Mathematics and Computing Science (JMCS), Journal of Mechanical Engineering (JMechE), Journal of Media and Information Warfare (JMIW), International Journal of Pharmaceuticals, Nutraceuticals and Cosmetic Science (IJPNaCS), Journal of Tourism, Hospitality and Culinary Arts (JTHCA), Jurnal Intelek (JI), Malaysian Journal of Computing (MJoC), Malaysian Journal of Sport Science and Recreation (MJSSR), Malaysian Journal of Sustainable Environment (MySE), Management and Accounting Review (MAR),

Mathematical Sciences and Informatics Journal (MIJ), Science Letters (SL), Scientific Research Journal (SRJ), Social and Management Research Journal (SMRJ), Voice of Academia (VoA), Borneo Akademika (BA), Malaysian Journal of Chemical Engineering and Technology (MJCET), Journal of Smart Science and Technology (JSST), Journal of Applied Engineering Design & Simulation (JAEDS), Journal of Sustainable Civil Engineering & Technology (JSCET), Bioresources and Environment (BioEnv), Forum Komunikasi (FK), Journal of Creative Arts (JCA), Journal of Sustainability, Law and Policy (JSLP) dan Journal of Halal Science and Management Research (JHSMR).

MITRANS 2025 Excellence and Appreciation Awards Ceremony

24 April 2025 Hotel DoubleTree by Hilton, i-City, Shah Alam, Selangor

MITRANS 2025 Excellence Awards and Appreciation Ceremony was held successfully on 24 April 2025 at the DoubleTree by Hilton Hotel, i-City, Shah Alam. The ceremony began at 12.00 noon, with the presence of many guests of honor, strategic partners, and MITRANS staff. This meaningful ceremony was organized as an appreciation for excellent students, especially officers from the Malaysian Road Transport Department (JPJ) who have participated in the Executive Diploma in Transport Management and Enforcement (DEPPP) Programme organized by MITRANS. The ceremony was officiated by YBhg. Professor Ts. Dr. Norazah Abd Rahman (Deputy Vice-Chancellor for Research and Innovation, Universiti Teknologi MARA).

Among the guests present were Dr. Azmi Awang (Director of the Malaysian Road Transport Academy), Ts. Hj Abi Sofian Abdul Hamid (Chairman of CILTM Selangor Section), Assoc. Prof. Dr. Siti Zaharah Ishak, (Director of MIROS), Ibu Sindu Rahayu (Embassy of The Republic of Indonesia-Communication Attaché) and En. Shahrul Anis Sarhadat (Network Planning Manager, RapidBus). Also enlivening the event were representatives from various government and private agencies, including :

1. Road Transport Academy
2. C&J Food Group
3. CILTM Selangor Section
4. Embassy of the Republic of Indonesia
5. Halvec Laboratories Sdn Bhd
6. Isianpadu System Sdn Bhd
7. Jabatan Pengangkutan Jalan Malaysia (JPJ)
8. Majlis Bandaraya Petaling Jaya (MBPJ)
9. Malaysian Institute of Road Safety Research (MIROS)
10. MMC Port Holdings Sdn. Bhd.
11. Northport (Malaysia) Bhd
12. RAMUDA NETWORK & CONSULTANCY
13. Rapid Bus Sdn Bhd
14. SD GUTHRIE BERHAD
15. Sufi Group
16. University College of MAIWP International (UCMI)
17. Wan Energy Solution (M) Sdn Bhd

The ceremony was also graced with a speech by YBrs. Prof. Madya Ts. Dr. Wan Mazlina Wan Mohamed, Director of MITRANS, who emphasized the importance of strategic collaboration in developing high-quality human capital in the field of transportation and enforcement. The remarks also included the achievements of DEPPP students who have successfully presented their research results at international conferences and published them in professional journals. This proves the success of the program not only at the local level, but also has the potential to compete at the global level. With the presence of key collaboration partners such as JPJ as well as various strategic agencies, the ceremony expressed the spirit of synergy and appreciation for academic excellence and professionalism in the field of transportation.

Ukhwah@PI Series 4/2025 – Rayalah (Research & Innovation Department's Hari Raya Celebration and Banquet)

25 April 2025 I Kolej Kediaman Melati, UiTM Shah Alam, Selangor

On 25 April 2025, 26 Syawal 1446H, JPI, UiTM organized the Ukhwah@PI Series 4/2025 - Rayalah

(Research & Innovation Department's Hari Raya Celebration and Banquet) which was very lively with an estimated attendance of 350 guests consisting of department staff and invited guests.

The ceremony was enlivened with 6 special food stalls, offering a variety of traditional and modern Hari Raya dishes.

Among the menus that are the focus include:

a. Stall 1: Various Kuih Talam & Hot/Cold Drinks including Teh Tarik Kaw
b. Stall 2: Lemang, Rendang Daging & Ayam, Pulut Kuning, Roti Jala dan Kari Ayam
c. Stall 3:

i. Rice Set 1 – Nasi Tomato, Ayam Masak Merah, Acar Jelatah & Papadom
ii. Rice Set 2 – Nasi Hujan Panas, Daging Masak Hitam, Dalca Sayur & Papadom

d. Stall 4: Satay Ayam, Nasi Impit, Kuah Kacang & Sayur-sayuran segar
e. Stall 5: Laksa, Mee Kari dan Bihun Singapor
f. Stall 6: Hirisan Kambing, Mash Potato, Coleslaw, & Kuah Black Pepper

This ceremony not only serves as a platform to strengthen ties among department members, but also as a symbol of gratitude and enthusiasm. togetherness after a month of fasting especially the secretariat and all the parties who worked hard to make this event full of sweet memories.

Innovathon 2025 Site Visit at UiTM Melaka

7 Mei 2025 I UiTM Melaka Branch

A site visit by Astro management & producers for the Innovathon 2025 program was held at UiTM Alor Gajah campus, Melaka Branch. This visit was welcomed by the Deputy Rector for Research & Industry Networking, Associate Professor Dr Nur Hayati Abdul Rahman. Among those present for this site visit were representatives from the Business Innovation & Technology Commercialization Centre (BITCOM), Research Communication & Visibility Unit (UKKP), Research & Innovation Department and Astro.

This visit is to ensure that the facilities & also the judging process for Innovathon 2025 run smoothly. Let's all pray that Innovathon 2025 runs well and further enhances the country's innovation excellence through UiTM.

Organization of JPI Training Series 1/2025

14 Mei 2025 I Bilik Seminar MITRANS, UiTM Shah Alam, Selangor

Research & Innovation Department Training Series 1/2025 was successfully held on 14 May 2025 at the MITRANS Seminar Room, UiTM Shah Alam with the title Risk and Crisis Management. This training is an initiative to provide awareness and exposure to all Risk Coordinators appointed under the 22 Responsibility Centers (PTJ) at JPI on the risks that could potentially occur in the operation of the organization.

This JPI training featured Associate Professor Dr. Norhaslinda Kamaruddin, Director of the UiTM Risk Management Centre to share a strategic approach in identifying, assessing and planning actions against risks that will or are occurring. Participants were also exposed to how to systematically use the Risk Management System, e-RMS.

This program was well received with the attendance of nearly 30 PTJ Risk Coordinators. Training sessions on filling out risk register templates and interactive question and answer sessions were also held to enable participants to apply their understanding practically and share the real challenges faced at the implementation stage.

UiTM Press' Visit to USIM Press

19 Mei 2025 I Universiti Sains Islam Malaysia (USIM), Negeri Sembilan

On Monday, 19 May 2025, UiTM Press conducted a benchmarking visit to Universiti Sains Islam Malaysia (USIM) Press. UiTM Press delegation led by the Director, YBrs. Professor Sr. Ts. Dr. Zulhabri Ismail, together with the Deputy Director and all Unit Heads, was warmly welcomed by the Director of USIM Press, YBrs. Puan Hariza Mohd Yusof.

The visit aimed to review and learn best practices in publishing management and strengthen the operational effectiveness of UiTM Press. Among the main points discussed were manuscript management, royalty payment structure, implementation of publishing agreements, and marketing and sales strategies.

UiTM Press is always committed to implementing continuous improvements in order to achieve the set Performance Indicator (PI) targets, in line with the university's aspirations. It is hoped that this visit will open up synergy and provide mutual benefits in producing high-quality published works and generating sustainable sources of income.

Briefing Program on Funding Opportunities for Asnaf and Community Projects with Zakat Maybank Islamic Berhad

20 Mei 2025 I Dewan Berlian, Bangunan Wawasan, UiTM Shah Alam, Selangor

Research Management Center (RMC), has organized a Briefing Program on Funding Opportunities for Asnaf and Community Projects with Zakat from Maybank Islamic Berhad.

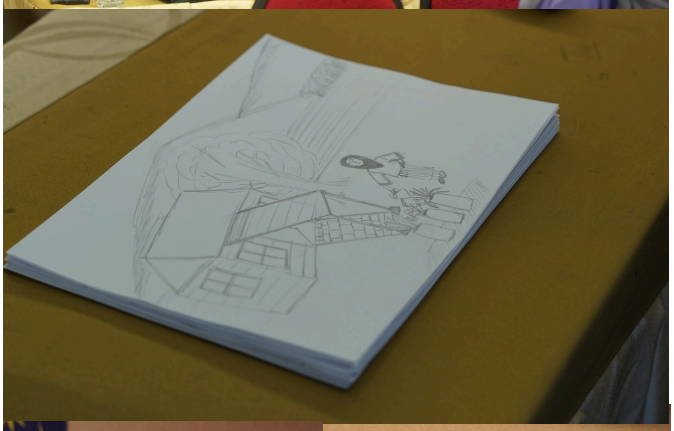
This briefing aims to explore the potential of high-impact financing to empower the underprivileged through research and community development programs.

This program is a strategic platform that connects universities with Islamic financial institutions through Zakat Maybank Islamic Berhad in an effort to devise innovative and sustainable approaches to strengthen & develop the well-being of the asnaf group.

Through this collaboration, it is hoped that funding opportunities can be devised and optimally utilized for the implementation of transformative research projects that provide direct benefits to the target community.

JPI Training Series 2/2025

22 Mei 2025 I Dewan Al-Ghazali
JPSM, Bangunan Wawasan, UiTM
Shah Alam, Selangor



The Workplace Culture Course: How to Create a Healthy Workplace Environment was organized by the Strategic Administration & Human Resources Division (BPSSM), Department of Research & Innovation (JPI) on 22 May 2025, involving participation from JPI administrators and academic administrators.

A prolific speaker from the UiTM Dengkil ASASI Center, Mr. Norhisham Yacob, was specially brought in to discuss scenarios that often occur in the workplace. Various methodologies were used in this course by incorporating psychological elements through color personality tests.

Participants were also given the task of drawing certain objects as an assignment. As a result, the diverse interpretations by the speaker made participants aware of the diversity of personalities and traits that are around us. This helped participants better understand the appropriate approach and communication methods in doing their daily work.

Writing Workshop 2025: Strategies for High Impact Publications Health & Wellness Research Workshop: Pathway to Q1/Q2 Journals

29 Mei 2025 I Faculty of Health Sciences,
UiTM Selangor Branch, Puncak Alam Campus, Selangor

A total of 40 researchers from various faculties participated in the Writing Workshop 2025 which lasted for two days from 28 to 29 May 2025 at the Seminar Hall, Level 8, Faculty of Health Sciences, UiTM Selangor Branch, Puncak Alam Campus.

Themed “Health & Wellness Research Workshop: Pathway to Q1/Q2 Journals”, this program was organized by the UiTM Research Nexus (ReNeU) in collaboration with UiTM Selangor Branch, Puncak Alam Campus. Two experienced researchers were invited as keynote speakers, namely:

1. Assoc. Prof. Dr. Mohd Lokman Ibrahim, Head of Unit, International & Private Grant Acquisition, Research Management Centre (RMC), UiTM

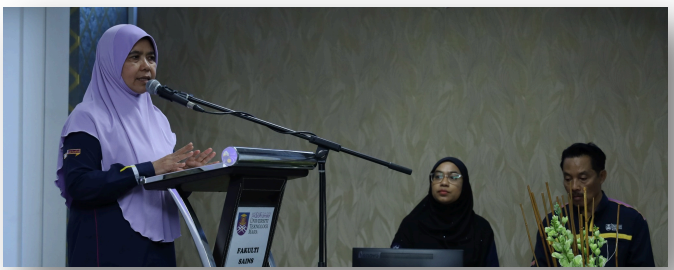
2. Prof. Dr. Kalavathy Ramasamy, Faculty of Pharmacy, Universiti Teknologi MARA

The purpose of this workshop is to guide participants in formulating high-impact writing strategies, reviewing and improving existing research manuscripts, and preparing an action plan for submitting manuscripts to Q1/Q2 indexed journals targeted.

In addition, it supports UiTM's aspirations in strengthening a high-impact research ecosystem, in line with the university's agenda for global health and well-being.

Hopefully all participants have gained a clear understanding of the writing structure, research methodology design, and suitability of the target journal.

This workshop directly contributes to improving the quality of academic writing and strengthening UiTM's position in the international research publishing landscape.



Ukhuwah@PI Series 5, Year 2025

30 Mei 2025 | Engineering Complex, UiTM Shah Alam, Selangor

Ukhuwah@PI Series 5 of 2025 was held successfully on 30 May 2025 at the Al-Jazari Seminar Room, Level 6, Block 1, Engineering Complex, UiTM Shah Alam. The ceremony began at 8.45 am with the recitation of Surah Yasin which was specifically intended for the well-being of all members of the JPI and praying for long-term health for the Vice-Chancellor of UiTM.

The ceremony continued with an experience sharing session by representatives from SMRI and IIESM who had recently attended the training course. In addition, there was also a session to present letters of appreciation to researchers from IIESM for their proud success in achieving the i-UiTM Score for the year 2024.

Highest appreciation and gratitude are expressed to IIESM, SMRI and IBSD for their willingness to host the Ukhuwah@PI this time. May the spirit of ukhuwah among JPI members continue to blossom and grow stronger in achieving excellence together.

JPI Training Series 3/2025

10 June 2025 I PTAR 1, UiTM Shah Alam, Selangor

Research & Innovation Department Training Series 3/2025 was held on 10 June 2025 with the title Design through Typography. This session was conducted by an experienced lecturer from the Faculty of Art & Design, namely Mr. Mohamed Izzat Mohamed Khalil, who is also the Coordinator at the Research Communication & Visibility Unit (UKKP).

A total of 45 administrative staff at the JPI participated in this session at Computer Lab 2, PTAR 1, UiTM Shah Alam to learn about typography layout.

In the training session, participants were exposed to the early history of typography, the evolution of typefaces, design principles and theories, and the role of typography in designing.

The training session was also enriched with practical activities, where participants were asked to design posters using typography elements, as well as applying the principles of graphic layout learned in line with UiTM Corporate Management Procedures.

This training successfully sparked the participants' creativity and strengthened their understanding of the importance of typography in delivering visual messages more effectively.

Biosafety Training Workshop 2025

10 June 2025 I Bangunan Wawasan, UiTM Shah Alam, Selangor

The Institutional Biosafety Committee (IBC), Universiti Teknologi MARA in collaboration with *Jabatan Biokeselamatan* (JBK), Ministry of Natural Resources and Environmental Sustainability (NRES) has organized the 2025 Biosafety Training Workshop in a hybrid format at the Berlian Hall, Wawasan Building, UiTM Shah Alam.

This workshop aims to provide information and training to all participants on biosafety aspects related to the handling of contained use activities involving living modified organisms (LMOs) and modern biotechnology in order to comply with the Biosafety Act 2007.

This workshop features three (3) guest speakers, namely:

i. Ms Noor Ainal Nabilah Muhamad, Assistant Director, JBK - Introduction to Biosafety Act and Regulations 2007.
ii. Ms Kayathri Panjavaranam, Assistant Director, JBK - Guidelines for Institutional Biosafety Committee (IBC)
iii. Dr. Rahizan Issa, Member of the Genetic Modification Advisory Committee (GMAC) - Risk Assessment for Contained Use Activities

A total of 50 participants consisting of academic staff and laboratory staff attended this workshop. It is hoped that the participants will be able to apply the knowledge gained in biosafety management at their respective PTJ, in line with the regulations and laws set.

Academic Lecture: STEM & Artificial Intelligence 2025

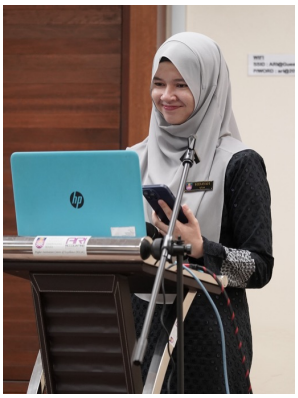
16 June 2025 I Menara SAAS, UiTM Shah Alam, Selangor

The Accounting Research Institute (ARI), Universiti Teknologi MARA (UiTM) in collaboration with Erasmus+ and Burgas Free University, Bulgaria, successfully organised an academic lecture titled:"STEM and Artificial Intelligence: Ethics, Creativity and the Future of Human Knowledge" held at Dewan STAR, Menara SAAS, UiTM Shah Alam.

This academic lecture featured two international speakers:
Prof. Dr. Sc. Mariya Aleksieva
Asst. Prof. Gergana Kirova

Both speakers delivered engaging insights on design thinking, artificial intelligence, and the transformation of education in today's digital era.

This programme was conducted as part of the Erasmus+ initiative, a European Union programme that supports education, training, youth, and sport through international collaboration and mobility.
The session was also streamed live via the JPI UiTM YouTube channel, enabling broader participation from audiences across borders.
Sincere appreciation to all participants, organisers, and partners for making this event a success.



Politeknik Negeri Bali Visit to UiTM

17 June 2025 I UiTM Shah Alam, Selangor

UiTM through the Department of Research & Innovation (JPI) is pleased to receive a delegation from Politeknik Negeri Bali led by Prof. Dr. Ir. Lilik Sudiajeng, together with Dr. Putu Hermawati and Puan Yuliana on 17 June 2025. During this visit, the delegates shared their expertise through useful academic lectures at the Faculty of Civil Engineering and the Faculty of Chemical Engineering, enriching scholarly discourse among lecturers and students.

The delegation was also taken to visit two UiTM Centers of Excellence (Centre of Excellence – CoE), namely the Solar Research Institute (SRI) which focuses on renewable energy research, and the Institute for Infrastructure Engineering and Sustainable Management (IIESM) which leads development in the field of sustainable engineering.

This visit not only strengthens the bilateral relationship between UiTM and Bali State Polytechnic, but also opens up space for strategic cooperation in the fields of academics, research, and innovation development at the regional level.

Hopefully this relationship will continue to flourish and have a positive impact on the academic communities of both institutions in facing the challenges of today's higher education.

Citra Program Collaboration between JPI UiTM and IDEA-UKM Center

18 June 2025 | Universiti Kebangsaan Malaysia (UKM), Selangor

A visit from the Department of Research and Innovation (JPI) UiTM to the IDEA Centre of the National University of Malaysia (UKM). This visit was undertaken by the Research Management Centre (RMC) and the UiTM Research Nexus (ReNeu) to learn about the operation and function of the UKM IDEA Centre in an effort to empower and improve the results of research and innovation activities as well as build networks between the two Universities.

UiTM delegation for the Citra Program Collaboration between JPI and the UKM IDEA Centre was led by YBrs. Prof. Dr. Nor Azura Md Ghani (Director of RMC), accompanied by YBrs. Prof. Ts. Dr. Asmah Awal (Director of ReNeU), and also accompanied by Deputy Directors and Officers from RMC and ReNeU UiTM.

The presence of the UiTM delegation was warmly welcomed by Assoc. Prof. Dr. Wan Zawiah Wan Zain (Deputy Director of the UKM IDEA Centre), Prof. Dr Salasiah Hanim Hamjah (Leader of the Heritage & Civil Society Research Cluster), Prof. Dr Zaidi Che Cob (Alaf-UKM Deputy Director of Strategy & Development), Prof. Dr. Sawal Hamid Md Ali (Deputy Director of UKM Innovation & Technology Transfer Centre).

Throughout the visit, various questions, views and knowledge sharing were discussed openly and constructively. UiTM greatly appreciates UKM's willingness to share best practices, strategies and holistic approaches used in managing and driving research and innovation excellence at their university.

This session also opens up space for strategic collaboration between the two institutions, especially in the field of research and innovation that has an impact on society. It is hoped that the results of this visit will further enhance the achievements and reputation of both universities in the research and innovation spectrum, as well as contribute to improving the socio-economic status, social well-being and educational development in the country.

Be Green Outreach

18 June 2025 I SMK Sultan Abdul Samad, Selangor

On June 18, 2025, the Innovation & Research Department, UiTM attended the "Be Green Outreach" Program, which is the result of a strategic collaboration between Universiti Teknologi MARA (UiTM) and PETRONAS Chemicals Group Berhad (PCG). This time the program was successfully implemented at SMK Sultan Abdul Samad, Klang which was also one of the activities in their STEM Week. Various student innovation works were presented through the *Kefahaman Melalui Rekabentuk* (KmR) Showcase.

The opening ceremony of this STEM Week was officiated by YBrs. Prof. Ts. Dr Norazah Abd Rahman, Deputy Vice-Chancellor (Research & Innovation), UiTM. Also present was Prof. Ir. Dr. Lilik Sudiajng, a representative of the delegation from Bali State Polytechnic.

We would like to express our highest appreciation to all parties who have made this program a success. This effort can not only bend the minds of the younger generation towards preserving and conserving the environment, but also shape a more sustainable future.

Ethics Review Committee (ERC) Audit Completion Certificate Presentation Ceremony

24 June 2025 | Bangunan Canseleri, UiTM Shah Alam, Selangor

Congratulations to the Ethics Review Committee (ERC), Faculty of Education and the Faculty of Medicine for successfully obtaining a valid ERC audit certification for a period of six years. This achievement is a testament to the high and continuous commitment of both faculties in ensuring compliance with the highest standards in the assessment of research ethics applications and research ethics governance at UiTM.

The ceremony began with Doa Recitation by Encik Mohd Izarul Anwar, followed by an opening speech by Professor Emeritus Dato' Dr Raymond Azman Ali, Chairman of the Research Ethics Committee. Next, a speech was delivered by Professor Ts. Dr Norazah Abd Rahman, Deputy Vice-Chancellor (Research and Innovation). The presentation of ERC Audit Certificate was officiated by Professor Ts. Dr Norazah Abd Rahman, accompanied by Professor Emeritus Dato' Dr Raymond Azman Ali.

The certificate for the Faculty of Medicine was received by Professor Dr Fazah Akhtar Hanapiah, Dean of the Faculty of Medicine, and was accompanied by:

- Professor Anis Safura Ramli, Deputy Dean of Research & Innovation
- Associate Professor Dr Aimi Nadia Mohd Yusof, Chairman of the Ethics Review Committee of the Faculty of Medicine
- Associate Professor Dr Annapurny Venkiteswaran, Secretary of the Faculty of Medicine Auditor Panel, representing the Chief Auditor.

Meanwhile, the certificate for Faculty of Education was received by Associate Professor Dr Siti Zuraida Maaruf, Chairman of the Ethics Review Committee, representing the Dean of the Faculty of Education, Associate Professor Dr Shireena Basree Abdul Rahman, and Professor Ts. Dr Johan @ Eddy Luaran, Deputy Dean of Research, Innovation and Industry Networking.

Also present were:

- Dr Ahmad Fahim Zulkifli, Former Chairman of the Research Ethics Review Committee of the Faculty of Education
- Professor Dr Salmi Razali, Head of the ERC Auditor Panel of the Faculty of Education.

Also present were Ir. Dr.-Ing. Amizon Azizan, Head of Ethics and Publication Unit, Research Management Centre (RMC); Associate Professor Dr Khasnur Abd Malek, Research Ethics Coordinator; and Ts. Mohd Rafizi Rahmad, Director of Strategic Administration & Human Resources Division (BPSSM).

Hopefully this success will be a catalyst for continued efforts in strengthening the quality and excellence of research governance at UiTM.

The highest appreciation is also recorded to all members of the ERC Committee of the Faculty of Education and the Faculty of Medicine, especially the secretariat team who have shown great dedication throughout the audit process.

Training Workshop on Assessment of Research Ethics Approval Applications

25 June 2025 I Bangunan Wawasan, UiTM Shah Alam, Selangor

A Training Workshop on the Evaluation of Research Ethics Approval Applications (Supplementary 2025) was held at Dewan Berlian, Bangunan Wawasan, UiTM Shah Alam.

The workshop aimed to train and appoint Associate Members for the Research Ethics Committee, specifically for the 10 new faculties that were created as a result of the college restructuring at UiTM.

A total of 36 lecturers participated in the workshop. The morning session began with a face-to-face lecture covering the following important topics:
- Governance in Research Ethics UiTM: REC & ERC
- Role and Responsibilities in Research Ecosystem
- Research Risk Categorizations
- Applicants & Application Procedures

These lectures were delivered by:
- Assoc. Prof. Dr. Thuhairah Hasrah Abd Rahman
- ChM. Muhammad Hisyam Jamari
Assoc. Prof. Dr. Khasnur Abd Malek

In the afternoon, participants participated in a practical session on risk assessment for research proposal papers. This session was interactively conducted by seven facilitators who are Associate Members from various faculties, namely:

- Assoc. Prof. TPr Dr. Oliver Ling Hoon Leh – Faculty of Built Environment
- Gs. Dr. Hajah Norainah Abdul Rahman – Faculty of Built Environment
- Dr. Jasber Kaur A/P Gian Singh – Faculty of Computer Science & Mathematics
- Ts. Dr. Mohamad Izwan Bin Ismail – Faculty of Applied Sciences
- Ts. Dr. Muhammad Fauzan Abu Bakar – Faculty of Art & Design
- Dr. Ahmad Fahim Bin Zulkifli – Faculty of Education
- Assoc. Prof. Dr. Norshima Humaidi – Faculty of Business Management

JPI would like to express its deepest appreciation to the Research Ethics Committee, Ethics and Publication Unit, and Research Management Centre (RMC) for their efforts in organizing this workshop. Appreciation is also given to the facilitators who provided guidance and shared their expertise in making the practical assessment session a success.

The appointment of Associate Members in these new faculties is hoped to strengthen the research ethics assessment process at the faculty level and strengthen the establishment of the Ethics Review Committee (ERC). This effort is also hoped to increase understanding of ethical principles in research and contribute to more ethical, responsible, and integrity-based research practices.

JPI Visit to UiTM Perak

26 June 2025 | UiTM Perak Branch

Closing Ceremony of 14th International Innovation, Invention & Design (INDES 2025)

26 June 2025 I UiTM Perak Branch

The Closing Ceremony of the 14th International Innovation, Invention & Design (INDES 2025) organized by UiTM Perak Branch was held successfully on 26 June 2025. The ceremony was officiated by the Deputy Vice-Chancellor (Research & Innovation) of UiTM, Prof. Ts. Dr. Norazah Abd Rahman.

This prestigious program is a meeting place for inventors, innovators and designers from various levels including researchers, academics, industry, students of higher learning institutions and also school students in an effort to highlight new ideas, technologies and designs.

In her speech, Prof. Norazah expressed her highest appreciation and congratulations to UiTM Perak Branch for organizing INDES 2025. She also described this program as an excellent initiative in instilling and strengthening the culture of innovation, creativity and design, not only among UiTM members, but also extended to the industry community, professionals and the younger generation. In addition, Prof. Norazah also accompanied YB Khairudin Hj Abu Hanipah, Chairman of the Perak State Education, Higher Education, Youth and Sports Committee, in a visit to the exhibition stalls that showcased the participants' innovations and designs.

Hopefully, the organization of competitions like this will continue to receive wider acceptance in the future, thus becoming a catalyst for the birth of more creators, innovators and creative thinkers who are capable of bringing change to society and the country.

NEW MEMBERS @ JPI

April - June 2025

WELCOME ON BOARD

Dr. Mohd Shafiq Aazmi
Head of Research Monitoring Unit, Research Management Centre (RMC)

Assoc. Prof. Dr. Ahmad Ihsan Mohd Yassin
University Fellow, Department of Research & Innovation

Assoc. Prof. ChM. Dr. Karimah Kassim
Deputy Director, Institute of Science (IOS)

Dr. Eva Salmee Mohd Salleh
Deputy Registrar, Research Management Centre (RMC)

WELCOME ON BOARD

Mr Muhammad Haffizzae Ghazali
Head of Unit ICT, Department of Research & Innovation

Mrs Norita Salim
Deputy Science Officer, Institute of Science (IOS)

Mr Azhar Ahmad
Deputy Science Officer, Integrative Pharmacogenomics Institute (iPROMISE)

Assoc. Prof. Sr. Dr. Siti Aekbal Salleh
Director, Institute for Biodiversity and Sustainable Development (IBSD)

WELCOME ON BOARD

Assoc. Prof. Dr. Faezah Pardi
Deputy Director, Institute for Biodiversity and Sustainable Development

Assoc. Prof. Dr. Syarul Azlina Sikandar
Coordinator, (Art & Humanities), Research Nexus UiTM (ReNeU)

WELCOME ON BOARD

THANK YOU &
ALL THE BEST

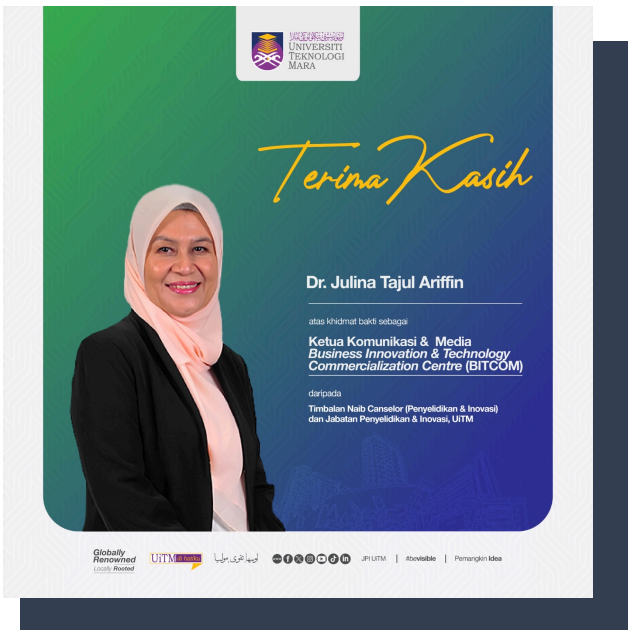
Assoc. Prof. Dr. Mohammad Johari Ibahim
Head Research Monitoring Unit, Research Management Centre (RMC)

Assoc. Prof. Ts. Dr. Shamsiah Abdullah
Head of National Grant Acquisition Unit, Research Management Centre (RMC)

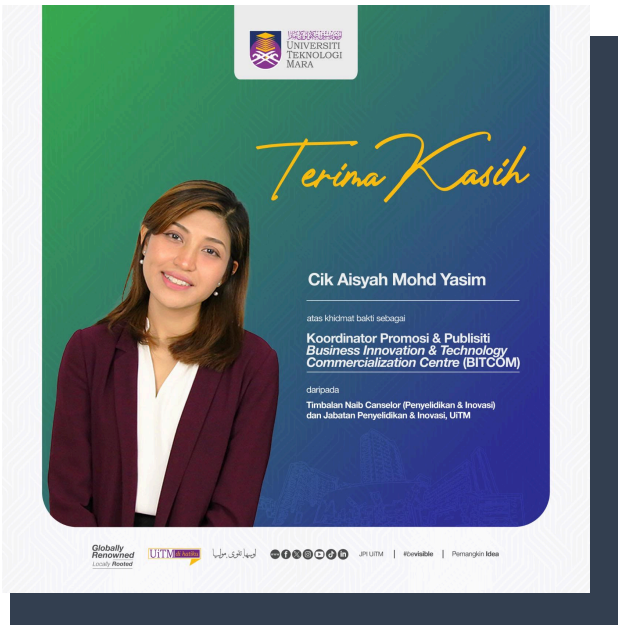
Assoc. Prof. Ts. Dr. Saiful Izwan Suliman
Head of Research Data & Innovation Unit, Research Management Centre (RMC)

Assoc. Prof. Ts. Dr. Abdul Hadi Abdul Razak
Deputy Director, Cyber Technology, Research Nexus UiTM (ReNeU)

Ts. Dr. Mohammad Farid Saaid
Coordinator, Cyber Technology, Research Nexus UiTM (ReNeU)



Dr. Julina Tajul Ariffin
Head of Komunikasi & Media, Business Innovation & Technology Commercialization Centre (BITCÓM)



Miss Aisyah Mohd Yasim
Coordinator, Promosi & Publisiti, Business Innovation & Technology Commercialization Centre (BITCÓM)

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DEPARTMENT OF RESEARCH & INNOVATION UiTM // JPI

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