

RISE

Catalysing Global Research Excellence

Robotics Technology:

Driving Innovation, Transforming Future

ReNeU's 1st Anniversary

Galvanising Research Excellence

UiTM's Global Effort in Training Young Aspiring Neuroscientists



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ABOUT THE MAGAZINE

RISE Magazine is published by Office of the Deputy Vice-Chancellor (Research & Innovation) with the aim of highlighting the research and innovation on of experts from multidisciplinary fields in UiTM. It serves as a platform for researcher to showcase their high quality and impactful findings, activities and innovative solution through publication. Contribution of these ideas come from academicians, researchers, graduates and universities professionals who will enhance the visibility of research and strive to elevate Universiti Teknologi MARA to global standards. This is an effort to promote research as a culture that should be embraced by everyone.

ABOUT UiTM

Universiti Teknologi MARA (UiTM) is a public university based primarily in Shah Alam, Malaysia. It has grown into the largest institution of higher education in Malaysia as measured by physical infrastructure, faculty and staff, and student enrollment. UiTM is the largest public university in Malaysia with numerous campuses throughout all 13 states in Malaysia. There is a mixture of research, coursework and programmes offered to the students. Office of the Deputy Vice-Chancellor (Research & Innovation) or known as TNCPI (*Timbalan Naib Canselor (Penyelidikan & Inovasi)*) serves a *Pusat Tanggungjawab (PTJ)* that navigates the research and innovation of university in achieving UiTM agenda. TNCPI office strives to mobilise the faculties, and campuses to move together and promotes cooperation among researchers in bringin UiTM as a leading global university of science, technology, and innovation by 2025.



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FOREWORD

VICE-CHANCELLOR



To excel globally, research must be weighed in as a key factor to navigate the university's direction in making an impact. This is especially when focusing on translational research where society can benefit greatly from its findings.

Congratulations to the Office of the Deputy Vice-Chancellor (Research and Innovation) on the publication of this magazine, aptly called RISE. I am pleased to see that the COVID-19 pandemic has not dampened UiTM researchers' pursuit of their dreams. The contents of these pages allow active research and innovation activities be shared with our stakeholders, local and international collaborators.

As UiTM aspires to be a world-renowned university by 2025, I believe that our current research practises are on track. For example, the featured article in the magazine highlights the key success of robotic technology ventured by our researcher, Associate Professor Dr Hanafiah Yussof, who formed a start-up company to advance robotic technology in Malaysia. His contribution to the robotics industry, the Robot Rehabilitation System for Autism Therapy, is an example of innovation that can transform the future.

In our pursuit of changing the future, we at UiTM are cognisant of the current and future direction of research to facilitate research from different disciplines. We have researchers using drones for pineapple plantations, exploring hybrid rockets with Equatorial Space System (ESS), and researching sanitation, collection, and sewage/wastewater treatment systems with Indah Water Konsortium (IWK) Sdn Bhd, to name a few of the work we have been actively involved in.

Hence, we will continue to contribute and make progress associated with processes and knowledge pivotal for impactful research, especially in developing knowledge-based technology that benefit society.

Ultimately, I am confident that the publication of this magazine will further strengthen the visibility of UiTM research and innovation.

Thank you.

PROFESSOR Ts. DR HAJAH ROZIAH MOHD JANOR

Vice-Chancellor

Universiti Teknologi MARA

FOREWORD

DEPUTY VICE-CHANCELLOR (RESEARCH & INNOVATION)



I would like to congratulate the editorial team on the release of RISE, a research magazine highlighting our research and innovation efforts and accomplishments. The magazine exemplifies our office's synergistic and collaborative efforts, as well as those of our researchers and article contributors, to advance the visibility agenda.

As the office in charge of research and innovation, we are constantly hoping that every research result and invention will benefit the community through translational research. Assoc. Prof. Dr Hanafiah Yussof's Robot Rehabilitation System for Autism Therapy, for example, has aided the autism community in improving communication. Even more proud that this endeavour resulted in the formation of a start-up company.

Despite the COVID-19 pandemic, UiTM researchers continued to conduct relevant research activities despite the uncertainty. The scale of the events varies from a small effort to install solar panels at a rural school and organise virtual conferences to the use of drones and precision agriculture technology on pineapple plantations. Notably, a Bioextreem solution capable of inhibiting 99.99 percent of bacteria and viruses was also developed.

With these accomplishments, we will continue to support research efforts, particularly those aimed at developing knowledge-based technology with a social benefit in mind.

Finally, I believe that this magazine can serve as a platform for the visibility agenda by incorporating a wide range of science and research perspective, fostering more potential collaboration between UiTM researchers and local and international institutions and industries.

Thank you.

PROFESSOR Ts. DR MOHD NAZIP SURATMAN

Deputy Vice-Chancellor (Research & Innovation)
Universiti Teknologi MARA

MESSAGE

FROM THE CHIEF EDITOR



Alhamdulillah.

It gives me great pleasure to see this issue published. We received a massive and impactful submission to feature our UiTM community's research stories. Despite the difficult circumstances, UiTM researchers are proactive in carrying out research activities and events within their respective capacities.

Allow me to express my heartfelt gratitude to all of the authors of the articles in this magazine. The publication of this issue would have been far more difficult to achieve without their contributions. Here, we feature Assoc. Prof. Dr Hanafiah Yussof of the College of Engineering's beautiful journey into robotic technology. I believe that robotics has always been on the national agenda for its true mission in helping people. We chose to focus on robotics to honour a UiTM researcher who has dedicated his academic

career to assisting society through technological advancements. To all researchers out there, we hope that his inspiring journey will rekindle our enthusiasm for research.

The inaugural issue of the RISE magazine also features research achievements and the multidisciplinary research areas in UiTM which support national priorities. Research Nexus UiTM (ReNeU) celebrates its first anniversary in 2021, marking a major milestone in its journey. Faculty of Pharmacy is making a global impact towards producing young aspiring neuroscientists. The exploration of Lembah Benua has highlighted the wonderful forest as a potential research station. The potential of fine art logistic industry is also of utmost importance towards making Malaysia as a top art market hub. These are some of the exciting research stories and I invite you to discover more in this issue.

We sincerely hope to bring you more research news from the UiTM family in the coming issues. Have fun reading!

DR MOHD MUZAMIR MAHAT

Head of Research Communication & Visibility Unit (UKPV)
Office of Deputy Vice-Chancellor (Research & Innovation)
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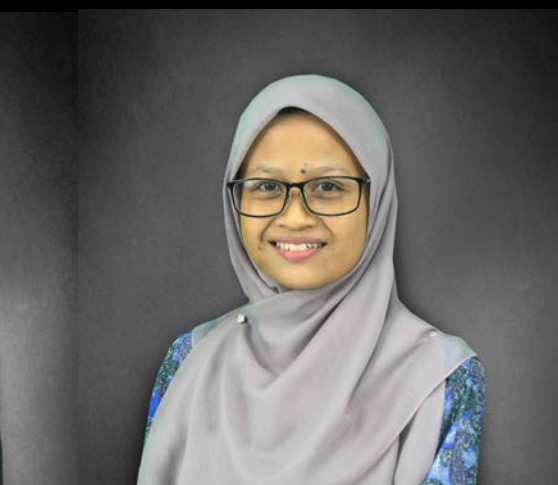
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Hutan Simpan Lembah Benom
Exploration 2021



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**PROF. DATIN DR
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Faculty of Medicine
Institute of Pathology, Laboratory & Forensic Medicine (I-PPerForM)
and the Malaysian FH research team

on the successful publication in the flagship journal

THE LANCET

(Impact Factor: 79.321)

**Global perspective of familial
hypercholesterolaemia:
a cross-sectional study from the
EAS Familial Hypercholesterolaemia
Studies Collaboration (FHSC)**



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Achievements

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Design for Cancer and Diabetes)

from
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Professor Dr Wong Tin Wui

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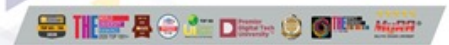
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My Subject	Organic Chemistry	Sweet-Fruity-Floral	Unisex	NOT200703741K
My Love	Ayla	Sweet-Vanilla-Chocolate	Unisex	NOT210900275K
Crush	Najla	Flowery-Musky	For Her	NOT200703738K

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Dr Azri's Perfume



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	04	Construction & Infrastructure		04	Robotics & AI		04	Genomics
Logistics and Transportation				05	Smart Sensors		05	Non-Communicable Disease
	01	Transportation	Energy & Environment				06	Natural Product
	02	Logistics & Halal-hub		01	Water Security	Social Creativity & Innovation	01	Creativity
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				04	Solar Technology		04	B40-Talent
				05	Biodiversity		05	Entrepreneurship & Artrepreneur
				06	Food Security		06	Socio-Economic

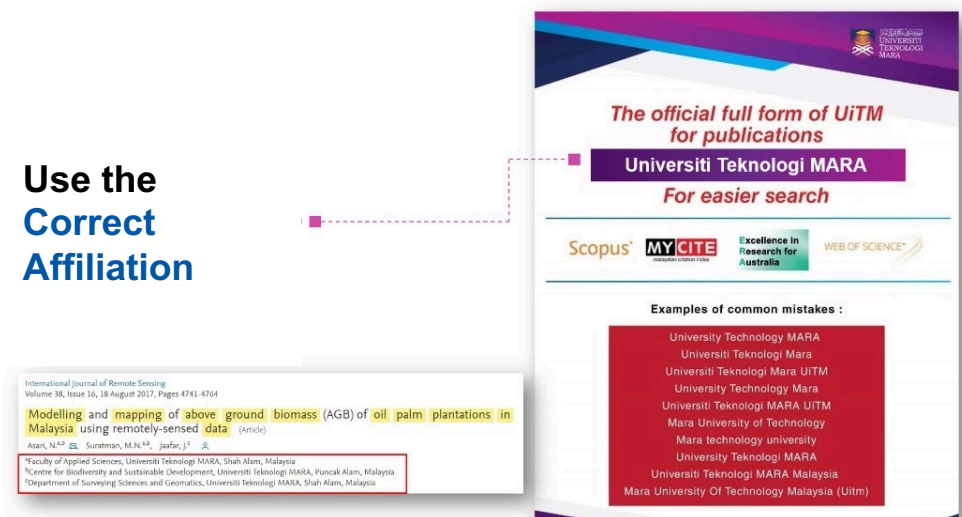
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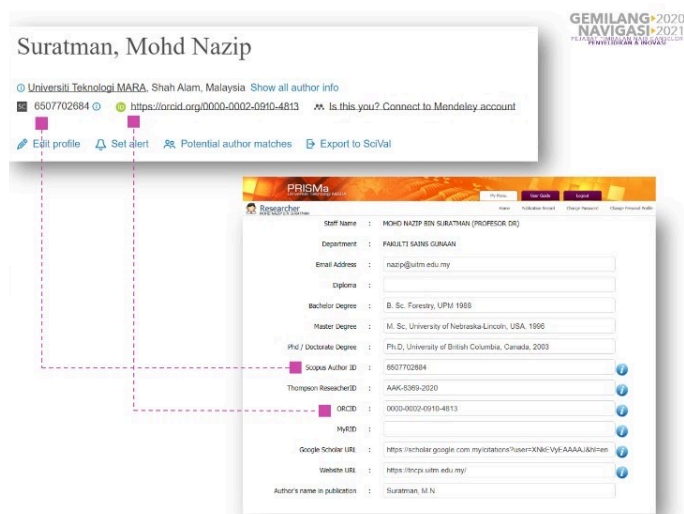
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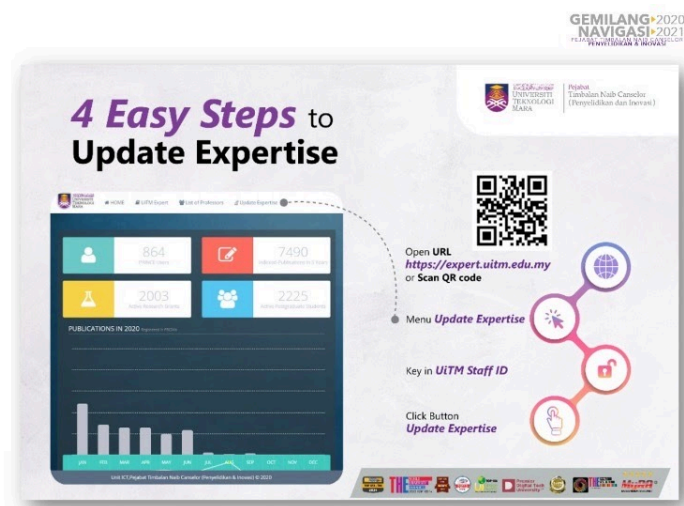
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New Road-Side Speed Display Signs in Reducing Speeding Problem in Malaysia

by Dr Khairul Khaizi Mohd Shariff



Encouraging road users to follow the speed limit is vital as speeding causes one-third of fatal road accidents in Malaysia. Nevertheless, evidence shows that the conventional speed sign sometimes has no effect in reducing speeding behaviour, even when it's placed strategically.

Dr Khairul Khaizi from the UiTM Microwave Research Institute, collaborating with Jabatan Kerja Raya Malaysia and Vectolabs Technologies Sdn Bhd, has developed a speed display sign that can reduce speeding behaviour to some extent. This technology features a microwave radar that detects and displays the motorist's speed as they pass the sign-making them aware if they are travelling above the speed limits and ultimately reducing their speed.

The system can also count and classify vehicles as they pass by and deliver the information to the traffic authorities in real-time via cellular connectivity.

The system has been installed on two road sites where there has been a history of fatal crashes. One is located on Jalan Kepong – Kuala Selangor, and the other one is on Jalan Kelang – Teluk Intan. Results from these two sites indicate an improvement in speed reduction compared to the conventional speed sign. This proved that the system is ready to be used by road authorities across Malaysia.





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Good Bacteria That Lower Cholesterol: Myth or Truth?

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Assoc. Prof. Dr Aidah Jumahat

Research Nexus UiTM, ReNeU (Industrial Technology)
IWK-UiTM Research Collaboration

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Faculty of Applied Sciences, UiTM Shah Alam

Adaptive Strategies for Microbial Performance Through Optimization Approach

Prof. Dr Roshima Said

Assoc. Prof. Dr Mohd Rizaimy Shaharudin

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Faculty of Accountancy, UiTM, Campus Sungai Petani, Kedah

Faculty of Business and Management, UiTM, Campus Sungai Petani, Kedah

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Green Event Research @Borneo Jazz Festival

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Faculty of Art & Design, UiTM Shah Alam

Potential of Fine Art Logistic Industry

Prof. Dr Shahrman Zainal Abidin

Research Nexus UiTM, ReNeU (Logistic & Transportation)

Faculty of Art & Design, UiTM Shah Alam

Erasmus+ KA2: The Complexities of the Creation of a Validation Protocol for the Making4.0 Curriculum Between the Malaysian and European Education Systems

Dr Che Puteh Osman & Dr Normala Abd Latip

Atta-ur Rahman Institute for Natural Product Discovery (AuRIns)

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Faculty of Pharmacy, UiTM Campus Puncak Alam

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UiTM's Global Effort in Training Young Aspiring Neuroscientists

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Business Innovation & Technology Commercialization Centre (BITCOM)
Faculty of Applied Sciences, UiTM Shah Alam

High Energy Material Research Laboratory (HEMREL)

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Faculty of Business Management, UiTM Selangor

Disruptions in Supply Chains and a Lesson from the COVID-19 Pandemic: A Retail Perspective

Dr Khairul Khaizi Mohd Shariff

Microwave Research Institute (MRI)

New Road-Side Speed Display Signs in Reducing Speeding Problem in Malaysia

Miss Nur Syazwani Ahamad Azahari

Strategic Information Unit, Office of the Vice-Chancellor (Research and Innovation), UiTM

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