# Civil Engineering Insight




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# DEAN'S REFLECTION



It is my great pleasure to welcome readers to the 3rd edition of Civil Engineering Insight, the official e-bulletin of the Faculty of Civil Engineering, Universiti Teknologi Malaysia. As we commemorate Malaysia's Independence Day and Malaysia Day, this edition embraces the spirit of unity, resilience and progress, values that have shaped our nation and continue to guide us towards a stronger and more sustainable future.

For us in the Faculty of Civil Engineering, independence means more than celebrating our history. It reminds us of our responsibility as educators, researchers, engineers and future professionals to contribute meaningfully to nation-building. From developing resilient infrastructure and sustainable cities to advancing research, technology and engineering solutions, civil engineering continues to play an important role in improving lives and supporting Malaysia's development.

In this edition, we celebrate the achievements and activities of the FKA community over the past months—from academic and research excellence to student development, industry collaboration, international engagement, and community initiatives. Each accomplishment reflects the dedication of our staff and students and demonstrates how our collective efforts contribute to the advancement of the Faculty, the University and the nation.

As we proudly celebrate Merdeka and Malaysia Day, may we continue to uphold the spirit of togetherness, embrace new possibilities, and inspire one another to serve with knowledge, integrity, and purpose. Let us move forward as one FKA community, united in our commitment to engineering excellence and to building a better future for Malaysia.

Selamat Hari Kebangsaan dan Selamat Hari Malaysia.

**"United in purpose, inspired by progress, and committed to engineering a better Malaysia."**

**Prof. Ts. Dr. Mohd Rosli bin Hainin**
**Dean, Faculty of Civil Engineering**
**Universiti Teknologi Malaysia**

# Editor's NOTE...


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Welcome to this third edition of Civil Engineering Insight, themed Merdeka. As we celebrate Malaysia's independence and unity, this issue offers an opportunity to reflect on civil engineering's vital role in shaping the nation and improving people's lives.

From roads and bridges that connect communities to resilient infrastructure, sustainable cities, water systems, and safer built environments, civil engineering continues to support Malaysia's growth and development. Behind this progress are engineers, academics, researchers, students, alumni, industry partners, and communities working together to address challenges and create meaningful impact.

This edition highlights the activities, achievements, and milestones of the Faculty of Civil Engineering (FKA), while embracing the spirit of Merdeka through unity, resilience, innovation, collaboration, and service to society. Each contribution, whether through teaching, research, professional practice, or community engagement, plays a part in advancing the profession and strengthening our nation.

As we celebrate how far Malaysia has come, may we continue to move forward with purpose, creativity, and responsibility. Through the knowledge we share, the solutions we develop, and the people we inspire, we each have a role in building a stronger, safer, and more sustainable Malaysia.

Selamat Hari Merdeka dan Selamat Hari Malaysia!



# ALUMNI SPOTLIGHT




IR. DR. MOHAMMED RIDZUAN BIN JAHDIN

Deputy Director General
Malaysian Highway Authority

Graduation Year: 2023

Professional Experience:
29 Years

**Inspiring Journeys, Stronger Futures**

## BUILDING A STRONG ENGINEERING FOUNDATION

The UTM Civil Engineering programme provided a valuable foundation in fundamental engineering knowledge. Reflecting on his academic experience, Ir. Dr. Mohammed Ridzuan emphasises that graduates must remain open to new knowledge and continuously update their skills to keep pace with evolving engineering practices.

## EMBRACING EMERGING TECHNOLOGIES

As the engineering industry continues to evolve, he encourages greater integration of emerging technologies into engineering education. Tools such as Building Information Modelling (BIM), Artificial Intelligence (AI), and other discipline-specific technologies can help prepare graduates for contemporary professional challenges.

## THE IMPORTANCE OF GEOTECHNICAL ENGINEERING

Among the various disciplines in civil engineering, geotechnical engineering remains particularly meaningful to him. He highlights the importance of understanding ground conditions, recognising that geotechnical considerations form a fundamental part of engineering projects.



## BEYOND TECHNICAL KNOWLEDGE

Technical competence alone is not sufficient for professional success. Communication, leadership, teamwork, problem-solving, project management and professional ethics are essential skills for young engineers, particularly when managing real-world projects and working with multidisciplinary teams.

## STRENGTHENING ACADEMIA–INDUSTRY COLLABORATION

Enhance collaboration between FKA UTM and industry.



## LIFELONG LEARNING FOR PROFESSIONAL GROWTH

He encourages future engineers to develop a habit of continuous learning through professional reading, technical articles and research journals. Remaining informed about emerging knowledge and engineering developments is essential for long-term professional growth.



# A Legacy Beyond the Lecture Hall

## Reflection with Prof. Azman Kassim

**A tribute to a life devoted to educating future engineers, advancing geotechnical and slope engineering, and serving the university, community and Malaysia.**

### 12 September 1989 — The Journey at UTM Began

### A Life of Purpose, A Legacy of Excellence

**Youth**



**Teaching**



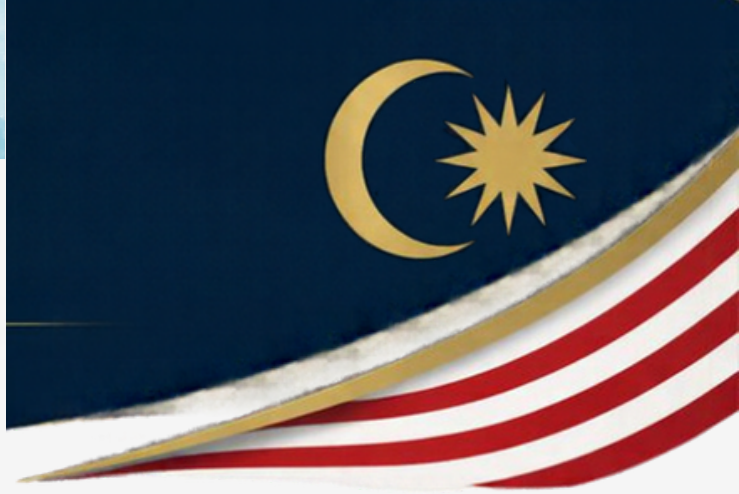


**Colleagues**



1. **Educating Future Engineers**
   Through teaching and mentorship, he has helped shape future engineers with knowledge, discipline and a sense of responsibility.
2. **Engineering with Purpose**
   His work in geotechnical and slope engineering reflects a commitment to solving complex challenges with care, rigour and public purpose.
3. **Professor and Professional Engineer**
   His journey as a Professor and Professional Engineer reflects sustained achievement grounded in expertise, practice and integrity.
4. **Values That Endure**
   Ethics, lifelong learning and service remain central to his contribution to the university, the community and Malaysia.
5. **Beyond the Lecture Hall**
   Looking ahead, future travel and reading promise new perspectives, continuing a life shaped by curiosity and reflection.

# Engineering Minds, Building a Nation



## 1 A Distinguished Journey in Geotechnical Engineering

With extensive involvement in geotechnical engineering and slope-related challenges, Prof. Azman has contributed to the understanding and practical application of engineering principles in addressing complex ground conditions. His professional experience has reinforced the importance of integrating geological understanding, engineering analysis, and sound technical judgement in developing safer and more sustainable infrastructure.




## 2 Shaping the Next Generation of Engineers

With extensive involvement in geotechnical engineering and slope-related challenges, Prof. Azman has contributed to the understanding and practical application of engineering principles in addressing complex ground conditions. His professional experience has reinforced the importance of integrating geological understanding, engineering analysis, and sound technical judgement in developing safer and more sustainable infrastructure.

## 3 Engineering Knowledge for a Better Malaysia

Prof. Azman's professional journey reflects the wider purpose of engineering: applying knowledge and expertise to improve infrastructure, strengthen public safety, and serve society. His dedication to education, professional excellence, and knowledge sharing represents a lasting contribution to the development of future engineering professionals and the nation.

# THE LEGACY LIVES ON



## Words of Wisdom

Throughout his career, Prof. Azman has emphasised the importance of strong engineering fundamentals, lifelong learning, professional integrity and meaningful collaboration. His advice encourages young engineers to remain curious, adaptable and committed to serving society.



## Memories That Matter

Beyond academic achievements, his journey at UTM has been enriched by meaningful friendships, professional collaborations and shared experiences. These connections represent the human side of a career devoted to knowledge, mentorship and service.

## A New Chapter Begins

As he enters a new chapter of life, Prof. Azman looks forward to continuing his professional and voluntary contributions while finding more time for travelling, reading and personal reflection. Retirement marks not an ending, but a new opportunity to explore life beyond the demands of academia.



## A Legacy of Gratitude

The Faculty of Civil Engineering, Universiti Teknologi Malaysia, extends its heartfelt appreciation to Prof. Ir. Dr. Azman Kassim for his dedication, contributions and years of service. His influence will continue through the knowledge he has shared, the professionals he has inspired and the relationships he has built.

FKA PEOPLE

SPECIAL INTERVIEW

# Beyond the Call of Duty

## *The Community Spirit of* Abang Burn




> *Being involved is not just about duties, but about people, togetherness and giving back to the community.*

**EN. ABU BAKAR BIN SA'AN**

*Pembantu Khidmat Am*

Faculty of Civil Engineering, UTM

A dedicated and cheerful member of the FKA family, Encik Abu Bakar bin Sa'an, fondly known as Abang Burn, began serving at the Faculty of Civil Engineering in **1990** as a ***Pembantu Khidmat Am***, with great commitment and a warm heart. Beyond his official duties, he has actively contributed to the welfare of staff and the community through **Koperasi UTM** and the **Kelab Keluarga FKA (KKFKA)**, embodying the true spirit of teamwork and togetherness.

### 03 Active in the FKA Family Club (KKFKA)

I first joined the Economic Bureau, where I was involved in activities related to fund management and generation. During that period, the **FKA Family Club (KKFKA)** was led by **Prof. Ir. Dr. Mohd Rosli Hainin** as the **President**. I volunteered for the Safety Bureau. Currently, I am involved in special tasks, especially in event preparation and post-event activities, including site clean-up.

### 02 A Long-Standing Member of Koperasi UTM

I became a member of Koperasi UTM in 1991. All FKA staff are encouraged to join because there are many benefits, including purchasing facilities, loan schemes and special assistance for B40 members.

### 01 Giving Back to the Community

Koperasi UTM also carries out CSR programmes such as the Korban programme. A portion of the funds collected from members' contributions is allocated for infaq purposes. It is like a 'saham akhirat', sharing our rezeki and helping those in need. New members also receive a welcome gift as a token of appreciation.

### 04 The Spirit of Togetherness

For me, the most meaningful part is the teamwork. When we work together, all tasks can be completed smoothly. We should not work alone — teamwork and cooperation make everything easier and more meaningful.







### LOOKING AHEAD

Abang Burn is planning to retire in 2029, but his spirit of service, positivity and community involvement will continue to be a lasting inspiration to all of us at FKA.

JULY
HIGHLIGHTS

# STUDENT FINAL EXAMINATION

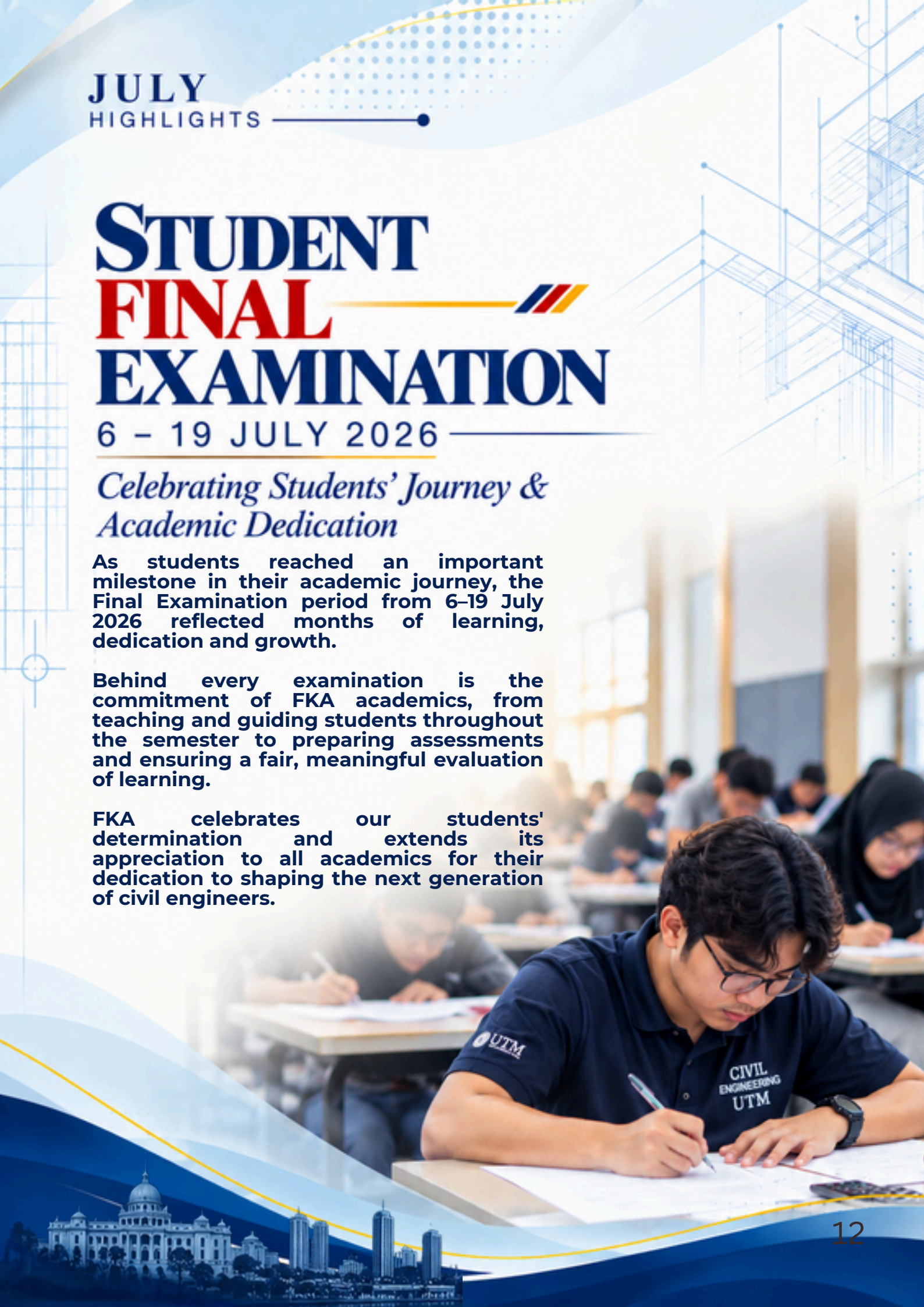
6 – 19 JULY 2026

*Celebrating Students' Journey & Academic Dedication*

**As students reached an important milestone in their academic journey, the Final Examination period from 6–19 July 2026 reflected months of learning, dedication and growth.**

**Behind every examination is the commitment of FKA academics, from teaching and guiding students throughout the semester to preparing assessments and ensuring a fair, meaningful evaluation of learning.**

**FKA celebrates our students' determination and extends its appreciation to all academics for their dedication to shaping the next generation of civil engineers.**



# AUGUST
HIGHLIGHTS



# FKA MERDEKA RUN 2026







In celebration of Malaysia's Independence Month, the FKA Merdeka Run 2026 brought staff and students together for a vibrant morning of patriotism, camaraderie and active living.

More than just a run, the programme strengthened connections within the FKA community while celebrating the spirit of unity, togetherness and national pride.

# EXPLORACE MERDEKA SERIBU

**Celebrating Unity Through Creativity & Teamwork**

**15 September 2026 (Tuesday) | 8:00 AM**

**E07 Parking Square, Faculty of Mechanical Engineering**
**UTM Johor Bahru**



## UNITED IN THE SPIRIT OF MERDEKA

Participants came together for exciting challenges that promoted patriotism, teamwork and creativity while testing communication and problem-solving skills.






## STATION 2:
## THE FKA CREATIVE CHALLENGE

At the Open Lab, Faculty of Civil Engineering, teams built creative monuments using the materials provided, putting innovation, design thinking and teamwork into practice.







The Programmer strengthened connections,leadership and natiional prode in celebration of Malaysia's National Day

Thank you to all participants, facilitators and everyone involved.

# International Seminar on Tropical Geoengineering 2026

## The Truth Behind Road Failures under Tropical Conditions

Organised by the Centre of Tropical Geoengineering (GEOTROPIK), UTM, in collaboration with the Pavement & Transportation Research Group (PTRG), Geotechnical Research Group (GRG), and Faculty of Civil Engineering (FKA), UTM, GEOTROPIK 2026 was successfully

**2 July 2026**

**Dewan Inderaputera, Pulai Spring Resort, Johor Bahru.**

**120 Participants**







The international seminar highlighted GEOTROPIK's research expertise in Highway Engineering, strengthening knowledge exchange and industry collaboration towards safer, more sustainable, and resilient road infrastructure in Malaysia.












# FIBRECONS 2026

## Shaping the Future of Sustainable Concrete

Held on 20 July 2026 at Renaissance Johor Bahru Hotel, FIBRECONS 2026 brought together academics, researchers and industry professionals to exchange knowledge and explore innovations in fibre-reinforced concrete and low-carbon construction. The symposium recorded 120 participants, reflecting strong engagement from both academia and industry.

More than a technical symposium, FIBRECONS 2026 connected research with practice and academia with industry, creating opportunities for meaningful collaboration and new ideas. The symposium reflects FKA's commitment to advancing engineering solutions that are innovative, resilient and sustainable — building not only for today, but for generations to come.



# MINES2026

## MINERAL EXPLORATION SYMPOSIUM

*Towards A Resilient and Competitive Mineral Exploration*

5–6 August 2026 | Holiday Villa, Johor Bahru

**GEOTROPIK, Universiti Teknologi Malaysia (UTM), in collaboration with Geoexpert Sdn. Bhd., successfully organised MINES 2026, bringing together researchers, industry experts, and government representatives to exchange knowledge and explore new opportunities in mineral exploration.**

**MINES 2026 reinforced GEOTROPIK's commitment to advancing innovation, strengthening industry collaboration, and supporting the sustainable growth of Malaysia's mineral and mining sector**





Special appreciation goes to the Director of JMG Johor for officiating the symposium, as well as all speakers, partners, and participants for their valuable contributions.

**"We are grateful for the valuable discussions, knowledge sharing, and new collaborations formed throughout the event. GEOTROPIK UTM believe our role goes beyond education and research. We aspire to be a trusted partner to industry and government in driving innovation, developing local expertise, and supporting the sustainable growth of Malaysia's mineral and mining sector."**









**Thank you to everyone who contributed to the success of MINES 2026.**

SEPTEMBER 2026

# TROPICON 2026

## INTERNATIONAL CONFERENCE OF TROPICAL GEOENGINEERING

**Geohazard Preparedness: Integrating Geoengineering from Subsurface to Surface with Artificial Intelligence**

8 – 9 SEPTEMBER 2026 | THE PACIFIC SUTERA HOTEL, KOTA KINABALU, SABAH

## About TROPICON 2026

TROPICON 2026 was organised by the Centre of Tropical Geoengineering (GEOTROPIK), Universiti Teknologi Malaysia (UTM), as an international platform to bring together researchers, professionals, industry players and decision-makers to exchange knowledge and share advancements in tropical geoengineering.

**Bringing Together**

Around 100 participants from academia, industry, government agencies and international experts.




Courtesy visit to YB Datuk Seri Panglima Dr. Joachim Gunsalam, Minister of Public Works and Utilities Sabah.




TROPICON 2026 at The Pacific Sutera Hotel, Kota Kinabalu, Sabah.




## KEY HIGHLIGHTS

**KNOWLEDGE SHARING PLATFORM**

International platform for the latest research, practices and innovations in tropical geoengineering.

**STRATEGIC NETWORKING**

Strengthens collaboration between academia, industry, government agencies and the community.

**RESEARCH & INNOVATION**

Showcases solutions for geohazard prediction, mitigation and resilient infrastructure.

**SUSTAINABLE DEVELOPMENT**

Supports resilient infrastructure and environmental sustainability in tropical regions.

# QUAKESAFE 2026

Malaysia Indonesia Japan

- **INTERNATIONAL SYMPOSIUM DEDICATED TO EARTHQUAKE HAZARD & MITIGATION**





## About QUAKESAFE 2026

The International Symposium on Earthquake Hazard & Mitigation (QUAKESAFE 2026) marked a significant milestone in advancing earthquake research, risk mitigation and disaster resilience in Malaysia. Organised by the Centre of Tropical Geoengineering (GEOTROPIK), Universiti Teknologi Malaysia, the two-day symposium brought together leading experts, researchers, engineers and policymakers to exchange knowledge and strengthen international collaboration.

**A powerful message**

Earthquake may be not be preventable, but knowledge,research and preparedness can significantly reduce their impacts.

**23-24 SEPTEMBER 2026**

**The Everly Putrajaya**














## BUILDING A SAFER, MORE RESILIENT FUTURE

QUAKESAFE 2026 reaffirmed UTM's commitment to advancing geoengineering research, strengthening regional partnerships and translating scientific knowledge into effective disaster risk reduction strategies.

## 10 Keynote Speakers

Shared their expertise and regional perspectives in understanding earthquake threats while strengthening mitigation efforts and future resilience.

## 101 Participants

Experts,researchers, engineers, goverment agancies, industry practitioners and academics from various backgrounds.












# TURNING WASTE INTO WORTH

## Empowering Communities *Through Green Innovation*



Transforming waste into opportunity, researchers from Universiti Teknologi Malaysia (UTM) are bringing innovation beyond the university and into the community. Led by Prof. Ir. Ts. Dr. Mohd Fadhil Md Din, the Waste Recovery Research Group, together with collaborators across UTM, engaged the Kampung Pasir Gudang Baru (PAGUBA) community in developing sustainable solutions for mussel-shell waste.

The initiative introduces five innovative technology modules that explore the potential of discarded mussel shells — from waste treatment and compost production to animal feed, water filtration and ceramic products. Rather than viewing shell waste simply as an environmental problem, the project demonstrates how research and technology can transform waste into valuable resources with environmental and socioeconomic potential.

Community engagement forms an important part of the initiative. Through discussion and module presentation sessions, residents were invited to share their experiences, feedback and practical insights to ensure that the proposed technologies are relevant, safe and applicable to real community needs before wider implementation.




More than a waste-management initiative, the collaboration reflects UTM's commitment to connecting research, sustainability and community empowerment. By combining academic expertise with local knowledge, the initiative has the potential to reduce coastal waste while creating new opportunities for green products and community-based economic activities.



'FROM WASTE TO VALUE, FROM RESEARCH TO IMPACT'

# Advancing Research Frontiers

A Space to Think. Connect. Advance.



## Ideas Shared. Perspectives Expanded.

Held on 6 July 2026 and delivered by Prof Tung-Chai Ling from Jinan University, Advancing Research Frontiers brought the FKA academic community together to exchange ideas, explore emerging research directions and gain fresh perspectives.

## Connections that Create Possibilities

Through open discussion, the session strengthened research networks and opened opportunities for future collaboration.

## From Conversation to Impact

More than a sharing session, the programme created a space where ideas connect, collaborations begin, and research grows into meaningful impact.







# Building Bridges Beyond Borders

## WTUN Visit – Atlantic Technological University (ATU)






**The Faculty of Civil Engineering (FKA), Universiti Teknologi Malaysia, welcomed a delegation from Atlantic Technological University (ATU) through the WTUN Visit on 24 July 2026. The visit provided a valuable platform to strengthen international academic connections and explore future collaboration.**

**Representatives from both institutions exchanged ideas on opportunities in education, research, and innovation, including student and staff mobility, collaborative research, and international academic activities.**

**The visit reflects FKA's continued commitment to expanding its global network and building meaningful partnerships that support academic and research excellence.**

# BRIN & ERASMUS

## STRENGTHENING MULTIDISCIPLINARY RESEARCH PARTNERSHIPS




• Indonesia

### CONNECTING EXPERTISE ACROSS BORDERS

UTM strengthening its research network with Indonesia's National Research and Innovation Agency (BRIN), bringing together expertise in engineering, economics, policy, management and law.




• Lisboa, Portugal

### DR. MARIYANA STRENGTHENS FKA'S GLOBAL ENGAGEMENT

Dr. Mariyana received the EU-funded Erasmus+ KA171 International Credit Mobility opportunity through UTM International at Instituto Superior Técnico, Lisbon, Portugal. Her participation strengthened FKA's global visibility and expertise in internationalisation, student mobility and academic collaboration. She was also a 2005 Erasmus Mundus scholar, pursuing her master's studies in Earthquake Engineering and Engineering Seismology in Italy and France.






• Hradec Králové, Czech Republic.

### EXPANDING HORIZONS THROUGH ERASMUS+

Dr. Ain Naadia Mazlan represented FKA in the Erasmus+ Staff Mobility Programme at the University of Hradec Králové, Czech Republic, from 25 March to 4 April 2026, strengthening knowledge exchange, professional development and international collaboration.



# CONNECTING MINDS, EXPANDING GLOBAL PARTNERSHIPS

- VISIT FROM TELKOM UNIVERSITY, INDONESIA



## ADVANCING ACADEMIC COLLABORATION

FKA welcomed Telkom University, Indonesia, for an exchange of ideas and experiences in academics, research, innovation and higher education development.



## Exploring Future Collaboration

Discussions explored opportunities for student and staff mobility, joint research, academic publications and international programmes.



## Advancing Academic Excellence

Discussions explored potential collaboration in education, professional training, research and technology development, supporting human capital development and excellence in civil engineering.

Thank you to the Telkom University delegation and everyone involved for their cooperation and valuable contributions.

# STRENGTHENING GLOBAL PARTNERSHIPS



- FKA RESEARCH COLLABORATION WITH UNIVERSITAS JEMBER & UNIVERSITAS ISLAM LAMONGAN, INDONESIA



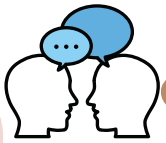



## ADVANCING ACADEMIC COLLABORATION

The Faculty of Civil Engineering (FKA), UTM, welcomed delegations from Universitas Jember and Universitas Islam Lamongan, Indonesia, for a strategic research collaboration discussion aimed at strengthening international partnerships, promoting knowledge exchange and exploring future academic opportunities.

## INTERNATIONAL ACADEMIC SEMINAR

**01 | Flood Resilience & Nature-Based Solutions**
Prof. Ir. Dr. Entin Hidayah — Universitas Jember
**02 | Transportation Route Connectivity**
Ir. Dr. Indra Nurtjahjaningtyas — Universitas Jember
**03 | Climate Variability & Hydrological Drought**
Ir. Dr. Nur Azizah Affandy — Universitas Islam Lamongan



**Engaged with**

**35 students and academic staff online**




## RESEARCH SHARING

Research insights were shared by FKA's Geotechnical Research Group (GRG) and Hydraulics and Hydrology Research Group (HHRG), represented by Dr. Bakhtiar Affandy Othman and Dr. Mazlin Jumain, respectively.



# STRENGTHENING ACADEMIC PARTNERSHIPS

## • VISIT FROM UNIVERSITI MALAYSIA SABAH




### Connecting Through Collaboration

FKA welcomed Universiti Malaysia Sabah (UMS) to strengthen academic ties and exchange best practices in academic development and quality assurance.



### Sharing Knowledge and Experience

Discussions explored the PO Assessment Model, Continuous Quality Improvement (CQI), Integrated Design Project (IDP), Final Year Project (FYP), Work-Based Learning (WBL) and blended learning.




### Meet the UMS Delegation

Led by Ir. Dr. Nelly Majain, the delegation included Assoc. Prof. Ts. Dr. Ahmad Nurfaidhi Rizalman, Dr. Adriana Erica Amaludin and Mr. Mohd Ruslan Bin Noorjaya Chew.

### Advancing Educational Quality

The exchange supported both institutions' efforts to enhance teaching and learning practices and develop competent, competitive graduates.

### APPRECIATION FOR A MEANINGFUL EXCHANGE

Thank you to the UMS delegation and everyone involved for their collaboration and valuable contributions.

# BUILDING STRONGER ENGINEERING PARTNERSHIPS

- Visit from the Public Works Department (CREaTE)







## CONNECTING KNOWLEDGE WITH PRACTICE

FKA welcomed the CREATE delegation to strengthen strategic collaboration and exchange knowledge on infrastructure development, engineering practices and research.

## EXPLORING SHARED OPPURTUNITIES

Discussions explored potential collaboration in education, professional training, research and technology development, supporting human capital development and excellence in civil engineering.

Thank you to the JKR delegation and everyone involved for their cooperation and valuable contributions.

# BUILDING BRIDGES, INSPIRING FUTURES

## UTM Bridge Model Competition 2026 Makes a Remarkable Comeback

After an eight-year hiatus, the UTM Bridge Model Competition 2026 made an exciting return to the Faculty of Civil Engineering (FKA), Universiti Teknologi Malaysia, from 10–12 August 2026, bringing together young minds with a shared passion for engineering, creativity and innovation.




A Glimpse of the UTM Bridge Model Competition 2017

Led by Prof. Dr. Norhazilan Md Noor as Program Chair, the competition attracted 60 teams from schools and higher education institutions, including participation from Malaysia and Indonesia. Following the preliminary selection, 20 school teams and 20 university teams advanced to the final stage.



More than simply building and testing bridge models, the competition challenged participants to transform STEM knowledge into practical engineering solutions. Teams were required to think critically, solve problems, make engineering decisions and test the performance of their designs.

Dean of FKA, Prof. Ts. Dr. Mohd Rosli Hainin, emphasized that the competition's true value extended beyond winning. It provided a platform for participants to develop creativity, confidence, teamwork, leadership, and practical problem-solving skills. The successful revival of the competition reflects FKA's continued commitment to nurturing future engineers and bringing engineering closer to the younger generation.



# UTM BRIDGE MODEL COMPETITION 2026

SCHOOL CATEGORY & UNIVERSITY CATEGORY

*Think. Design. Test. Transform.*

10 & 12 AUGUST 2026 | 8:00 AM-5:00 PM

Hydraulic & Hydrology Laboratory, Block M50
Faculty of Civil Engineering, UTM Johor Bahru





**20 TEAMS | | #113 STUDENTS & ADVISORS**
8 MRSM • 2 SBP • 9 SMK • 1 TECHNICAL SCHOOL

Bringing engineering ideas to life, the competition encouraged school students to explore creativity, critical thinking and teamwork through bridge design and testing.

## MAIN AWARD WINNERS



**1 CHAMPION**
**SAKTI QUINQUE**
Sekolah Menengah Sains Kota Tinggi



**2 RUNNER-UP**
**THE TRUSS TITAN**
SMK Kota Masai 2



**3 THIRD PLACE**
**TEAM BELLEZA**
MRSM Pengkalan Hulu

**20 TEAMS | | #114 STUDENTS & ADVISORS**
•UNIVERSITY •POLYTECHNICS

Bringing engineering ideas to life, the competition encouraged students to explore creativity, critical thinking and teamwork through bridge design and testing.

## MAIN AWARD WINNERS



**1 CHAMPION**
**UM BRIDGE NEVER FALL**
Universiti Malaya



**2 RUNNER-UP**
**UITM ACES**
Universiti Teknologi MARA



**3 THIRD PLACE**
**CIVEC**
Politeknik Tuanku Sultanah Bahiyah



*Thank you to our sponsors, schools, teachers, advisors, judges, organizers and volunteers.*





AI FOR A RESILIENT PLANET

## SMARTER SOLUTIONS FOR A SUSTAINABLE FUTURE

The presentation connected water security, the blue economy and green human capital development. Predictive analysis of real-time ecological data can help anticipate natural disasters, optimise water resource management and protect marine biodiversity.

## COLLABORATION BEYOND BORDERS

Research collaboration through TUNE and Erasmus+ supports efforts to connect digital innovation with ecosystem protection. The exchange of cooperation documents between UTM and UNHAS also opened pathways for joint research, student and staff exchanges, and knowledge sharing to benefit maritime communities in Malaysia and Indonesia.

Collaboration **through TUNE and ERASMUS+** supports research that connect digital innovation with ecosystem protection

# SEMKA 2026: CONNECTING INDUSTRY EXPERIENCE WITH FUTURE ENGINEERING





## 122 Participants with Industry Experience

SEMKA 2026 brought together 122 part-time Bachelor of Civil Engineering students from SPACE UTM learning centres in Kuala Lumpur, Johor Bahru, Kuching and Kota Kinabalu. Participants included project supervisors, assistant engineers, contractors, technical officers and civil servants.

## Connecting Theory with Practice

Organised by FKA UTM, the seminar created opportunities for academics, industry professionals and students to exchange knowledge and connect university learning with real engineering challenges.



## Preparing for the Future of Construction

Officiating the seminar, Prof. Ts. Dr. Mohd Rosli Hainin, Dean of FKA UTM, highlighted the importance of AI, BIM, automation and sustainable construction, alongside an unwavering commitment to professional integrity and public safety.

## Six Sessions of Expert Insights

Speakers from UTM, Kezo Consult, Rendang Technologies, IEM, the Department of Occupational Safety and Health Malaysia and PUNAI Enterprise shared academic expertise and industry perspectives.

# BRIDGING ACADEMIA & INDUSTRY
# SOFT LAUNCH OF MEAK PESISIR

## Advancing Environmental Management Education through Industry Collaboration




**KUALA LUMPUR, 21 September 2026** – The Faculty of Civil Engineering (FKA), Universiti Teknologi Malaysia (UTM) marked an important milestone with the soft launch of the PESISIR mode for its Master of Engineering in Environmental Management (MEAK) at the Wastewater Management Leaders Bootcamp (WMLB) 2026, organized by Indah Water Konsortium Sdn. Bhd. (IWK) through the Asian Sewerage Training, Research & Innovation Centre of Excellence (ASTRICE) at the Renaissance Hotel, Kuala Lumpur.

The soft launch provided FKA UTM with a strategic platform to introduce the PESISIR Master of Engineering in Environmental Management to wastewater professionals, regulators and industry leaders. It also underscored the increasing importance of viewing environmental challenges beyond individual technical or management functions.

### KEY HIGHLIGHTS

**INDUSTRY-RELEVANT POSTGRADUATE PROGRAMME**

A specialised pathway under MEAK focusing on environmental management with an emphasis on coastal and marine sustainability.

**STRONGER ACADEMIC–INDUSTRY COLLABORATION**

Integrates expertise from UTM and IWK through joint delivery of selected courses, knowledge sharing and industry exposure.

**EMPOWERING FUTURE ENVIRONMENTAL LEADERS**

Develops multidisciplinary competencies to address environmental challenges and support sustainable development.



CEO of Indah Water Konsortium (IWK), Datuk Narendran Maniam, delivering his welcoming remarks and officiating the soft launch of the MEAK PESISIR programme.



Dr. Noraliani Alias introducing the Faculty of Civil Engineering, UTM, and providing an overview of the UTM PESISIR programme in general.



Ts. Dr. Yong Ee Ling presenting the curriculum structure of the Master of Engineering in Environmental Management (MEAK) PESISIR programme.



A great session and a wonderful opportunity to reconnect with fellow UTM Faculty of Civil Engineering alumni.

# CONNECTING FKA TO THE WORLD

## Website Workshop











### BUILDING DIGITAL CONFIDENCE

The workshop brought faculty members together to strengthen their skills in managing and developing FKA's website content.

### CLEARER CONTENT, STRONGER CONNECTIONS

Participants explored content organisation, effective information delivery and improved digital presentation to make faculty information clearer and more accessible.

### ADVANCING FKA'S DIGITAL PRESENCE

The session supported ongoing digitalisation efforts and continuous improvement towards an informative, effective and user-friendly faculty website.

***Thank you to everyone involved for their commitment and valuable contributions.***

# SHAPING MINDS, SUSTAINING THE FUTURE



## CI Workshop: Incorporating VBE & ESD

### VALUES AND SUSTAINABILITY IN THE CURRICULUM

The workshop brought participants together to refine the integration of Value-Based Education (VBE) and Education for Sustainable Development (ESD) into Course Information (CI).

### STRENGTHENING TEACHING AND LEARNING

Through collaborative review, participants explored how course content can embed values, sustainability and holistic student development while supporting continuous curriculum improvement.

### PREPARING GRADUATES FOR THE FUTURE

The session aimed to support the development of knowledgeable, skilled and ethical graduates who are conscious of sustainability and their responsibility to society.





# SHAPING TOMORROW'S GEOTECHNICAL EXPERTISE

## CI Workshop for JGP Master's Programme Curriculum Review

| Geotechnical and Geological Engineering





**The CI Workshop for the JGP Master's Programme Curriculum Review brought faculty members together on 11 August 2026 to strengthen the Geotechnical and Geological Engineering curriculum. Through collaborative discussions, participants reviewed Course Information, refined course learning outcomes and explored improvements to the curriculum structure. The session supported FKA's commitment to academic quality and a relevant curriculum that prepares graduates for industry and professional practice.**

# HYDROLOGICAL AND HYDRAULIC MODELLING

## Strengthening National Flood Risk Management

- HEC-HMS & HEC-RAS Training Programme




## SCIENCE INTO PRACTICE

Organised by FKA's Hydraulic and Hydrology Research Group, the two-day programme combined theory with hands-on exercises using real datasets to strengthen flood modelling skills.





## EXPERT-LED LEARNING

Assoc. Prof. Ir. Dr. Nor Eliza Alias and Dr. Erwan Hafizi Kasiman guided participants from academia, research agencies and consultancy firms through practical modelling applications.

## FROM RAINFALL TO FLOOD RISK

Participants used HEC-HMS to simulate rainfall-runoff processes and HEC-RAS to assess water levels, flow velocities and flood extent. The training also connected modelling practice with Malaysia's Urban Stormwater Management Manual(MSMA).

# UPHOLDING ACADEMIC INTEGRITY

## Examination Results Review & Presentation Workshop

Semester II | Session 2025/2026











## A shared commitment to accuracy

Academic staff and committee members came together to carefully review Semester II examination results for the 2025/2026 session. The workshop supported accurate reporting and the smooth presentation of results, reflecting FKA's commitment to academic integrity and quality assurance. Appreciation goes to all involved for their dedication and cooperation.



Accuracy. Integrity. Academic excellence.

# QS WUR 2027 Achievement Post-Mortem Workshop

## Strengthening Insights, Advancing Excellence

The Faculty of Civil Engineering (FKA), Universiti Teknologi Malaysia, held the QS WUR 2027 Achievement Post-Mortem Workshop on 11 August 2026. The session brought faculty members together to review achievements, recognise strengths and identify areas where further progress is needed.Through discussion and the exchange of insights, participants explored strategies to strengthen FKA's academic reputation, research excellence and international connections.








## QS Ranking Analytics

The session strengthened understanding of QS ranking indicators, institutional performance and strategies for greater global visibility.






**UNDERSTAND**

QS indicators and ranking analytics

**ANALYSE**

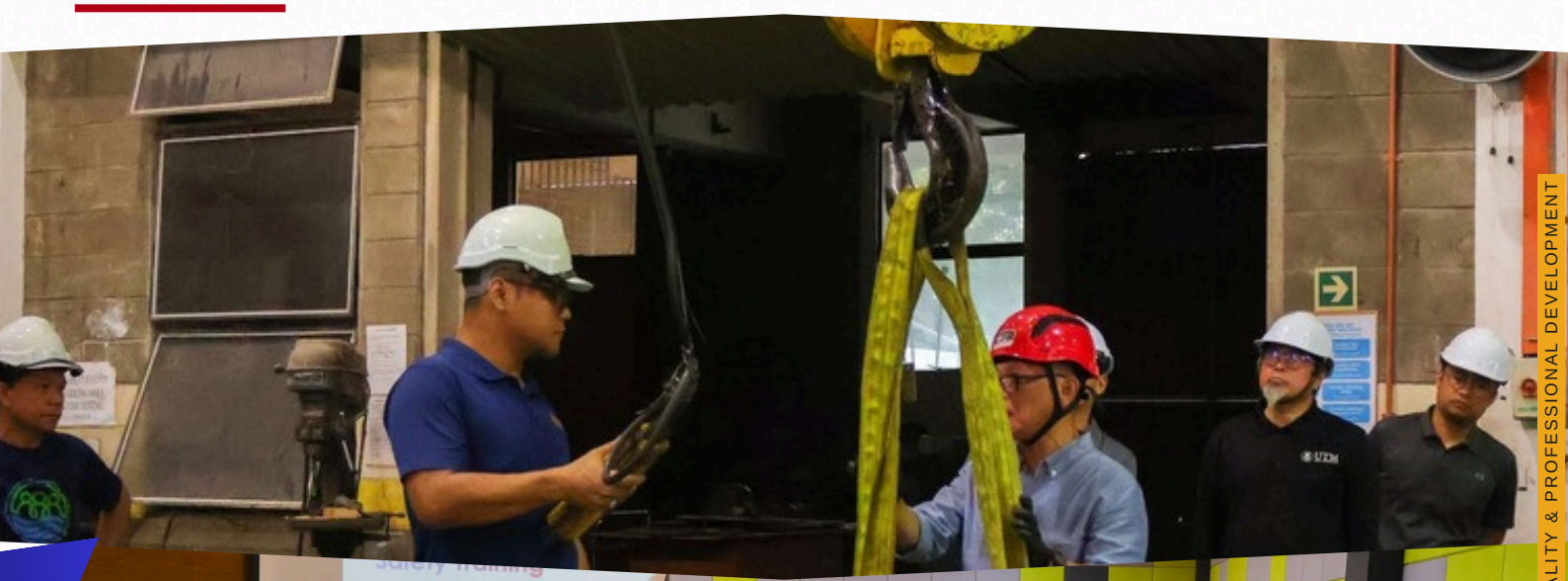
Current university performance

**ADVANCE**

Collaboration and global visibility

# LIFTING MACHINERY OPERATION COURSE

## BUILDING SKILLS. STRENGTHENING SAFETY.













### SKILLED & SAFETY AWARENESS

The course enhanced participants' knowledge, skills and safety awareness in operating lifting machinery and equipment.

### TEAMWORK & COMMITMENT

The programme reinforced safe, efficient and professional work practices to support effective equipment operation and minimise workplace risks.

# GOOD LABORATORY PRACTICE ENHANCEMENT COURSE

*Strengthening Standards.Ensuring Safety.*





## 01 ENHANCING KNOWLEDGE

The course strengthened knowledge, professional values and good laboratory practices.

## 02 PROMOTING SAFE OPERATIONS

Participants explored laboratory management, procedural compliance, safety and quality practices for teaching, learning and research.

## 03 BUILDING A CULTURE OF QUALITY

The programme encouraged collaboration and systematic, ethical practices for efficient, safe and standards-compliant laboratory operations.

# DEPARTMENT MEETINGS

**July - September 2026**



## 01 JKAAS

*Strengthening Communication.Advancing Departmental Excellence.*



### COMMUNICATION & COLLABORATION

The meeting brought together members of the Department of Civil and Structural Engineering (JKAAS) to strengthen communication, collaboration and information sharing.



### PLANNING & CONTINUOUS IMPROVEMENT

Discussins covered academic management, departmental planning, staff development, departmental activities and continuous improvement initiatives in support of faculty excellence.



## 02 JSB

**Strengthening Teamwork, Advancing Excellence**









**01 STRENGTHENING CONNECTIONS**

The meeting brought JSB members together to strengthen communication, collaboration and information sharing.

**02 PLANNING FOR PROGRESS**

Discussions covered academic management, departmental planning, staff development, departmental achievements and continuous improvement.

**03 MOVING FORWARD TOGETHER**

The session reinforced teamwork and shared commitment to implementing departmental responsibilities, strategic plans and improvement initiatives

## 03 JGP

The Geotechnics & Transportation Department Meeting No. 2/2026 was successfully conducted as a platform to strengthen knowledge sharing, professional values and departmental development among members of the Faculty of Civil Engineering.





## 04 TDPI

**Shaping the Faculty's Five-Year Plan**



**STRENGTHENING COLLABORATION**

The meeting brought faculty staff together to strengthen communication, collaboration and information sharing in support of the five-year plan.

**PLANNING FOR PROGRESS**

The session reinforced teamwork and commitment to faculty development, academic excellence and service quality improvement.

## 05 TDPI

**with FKA Laboratory Staff**



## KEY HIGHLIGHTS

**ACADEMIC MANAGEMENT**

Sharing important updates, academic priorities and departmental matters.

**DEPARTMENTAL PLANNING**

Discussing strategic initiatives, future directions and continuous improvement.

**STAFF DEVELOPMENT & RECOGNITION**

Celebrating achievements while fostering professional growth and excellence.

# STAR RATING
## Achievement Post-Mortem Workshop

14 August 2026
PBL 1, M46 | FKA, UTM Johor Bahru

*Reflecting on achievements.*
*Planning for progress.*








### REVIEW
Evaluate achievements and recognize strengths.







### IMPROVE
Identify gaps and refine strategies.

### STRENGTHEN
Collaborate, monitor progress and sustain improvement.

# From Classroom to Career

## Connecting Talent with Industry

### Student Interview Session with JCEC



The Student Interview Session with JCEC provided FKA students with valuable exposure to the professional recruitment process and an opportunity to connect directly with industry.

During the session, students showcased their knowledge, technical skills and professional potential, while gaining practical experience in communicating their strengths and preparing for future career opportunities.




Beyond the interview experience, the programme also strengthened FKA's engagement with JCEC, opening further opportunities for collaboration in talent development, industrial training and graduate career advancement.




The Faculty extends its appreciation to JCEC, the interview panel, faculty members and participating students for contributing to this meaningful industry–academia engagemen

# CONGRATULATIONS & BEST WISHES!

## YSS GREEN SUMMER VOLUNTEER CAMPAIGN

## VIETNAM 2026

# Nur Farzana binti Mamat Solleh

Bachelor of Civil Engineering with Honours

**18 JULY-21 AUGUST 2026**




Congratulations to Nur Farzana binti Mamat Solleh on her edlection for the Yayasan Sukarelawan Siswa (YSS) student volunteer mission in Vietnam.

**Community Service** | **Leadership & Teamwork** | **Cultural Exchange**

The mission offers opportunities to contribute through education, community development and environmental conservation, while building empathy, communication skills and social responsibility.

**Wishing her a rewarding mission and meaningful experiences in serving communities.**

# EXCELLENCE & SERVICES

## PROFESSIONAL RECOGNITION












# EXCELLENCE & SERVICES

## WELCOMING DISTINGUISHED EXPERTISE TO FKA









# EXCELLENCE & SERVICES

## RESEARCH ACHIEVEMENT












# EXCELLENCE & SERVICES

## GRANT RECOGNITION









# EXCELLENCE & SERVICES

## CAREER ADVANCEMENT
























# EXCELLENCE & SERVICES

## CAREER ADVANCEMENT



# EXCELLENCE & SERVICES

## A TRIBUTE TO DEDICATED SERVICES



# Honouring a Journey of Dedication




## Prof. Ir. Dr. Azman bin Kassim

Clock Out Session

26 AUGUST 2026 | 3:30 PM

BMU, M46 | Faculty of Civil Engineering
UTM Johor Bahru



## With Gratitude and Appreciation

Faculty members gathered to honour Prof. Ir. Dr. Azman bin Kassim's dedication, leadership and valued contributions to the Faculty of Civil Engineering and Universiti Teknologi Malaysia.






## Celebrating Service and Collegiality

The warm gathering celebrated his professional journey, offered an opportunity to share appreciation and reflected the strong bonds within the faculty community.

*Thank you, Prof. Azman.*

Your contributions continue to inspire our pursuit of excellence.
Wishing you good health, happiness and success in your future endeavours.

# SEMBANG BAHASA

*bersama sama*

PUAN KUNTUM MD ARIFF
(MUNSYI MUDA BAHASA PERKHIDMATAN AWAM)

## Bahasa Kita, Maruah Kita: Menyemarakkan Bulan Bahasa Kebangsaan 2026

### BULAN OKTOBER: SEMARAK CINTAI BAHASA KEBANGSAAN

Oktober menyemarakkan kecintaan terhadap bahasa Melayu sebagai bahasa kebangsaan, bahasa ilmu dan bahasa perpaduan rakyat Malaysia. Bahasa Melayu menyatukan pelbagai kaum dan budaya di bawah identiti nasional. Memartabatkannya ialah tanggungjawab moral serta kebudayaan dalam pembinaan negara bangsa.

### SOROTAN SEJARAH: PERJALANAN GERAKAN BAHASA KEBANGSAAN

- 1960-an: Minggu Bahasa Kebangsaan dan Bulan Bahasa Kebangsaan dilancarkan untuk memupuk kesedaran masyarakat pascakemerdekaan.
- 1987–1996: Gerakan Cintailah Bahasa Kita (GCBK) meluaskan penggunaan bahasa Melayu.
- 1996–2005: Gerakan Bahasa Kebangsaan Sektor Swasta (GBKSS) dan Minggu Sastera (1987–1998) memperkukuh bahasa dalam sektor korporat dan persuratan.
- 1999: Gerakan dinamakan Bulan Bahasa dan Sastera Negara (BBSN), dilancarkan oleh YAB Dato' Seri Abdullah Haji Ahmad Badawi, Timbalan Perdana Menteri ketika itu.
- 2009–kini: Dikenali sebagai Bulan Bahasa Kebangsaan (BBK) dengan fokus pemerkasaan bahasa kebangsaan.

### TUJUAN UTAMA BULAN BAHASA KEBANGSAAN

1. Memantapkan jati diri serta citra bangsa Malaysia.
2. Menguatkan rasa megah dan bangga terhadap bahasa kebangsaan.
3. Mengeratkan perpaduan bangsa menerusi bahasa kebangsaan.
4. Memperkukuh bahasa kebangsaan sebagai tonggak pembinaan negara bangsa.

### SERUAN KITA: BAHASA CERMINAN JIWA BANGSA

**Setiap tutur kata dan penulisan mencerminkan maruah serta jati diri bangsa. Penggunaan bahasa yang baik, sopan dan tepat melambangkan keperibadian luhur masyarakat Malaysia. Ayuh bersama-sama berbangga dengan bahasa kebangsaan kerana padanya terletak denyut nadi, maruah dan jiwa bangsa kita.**

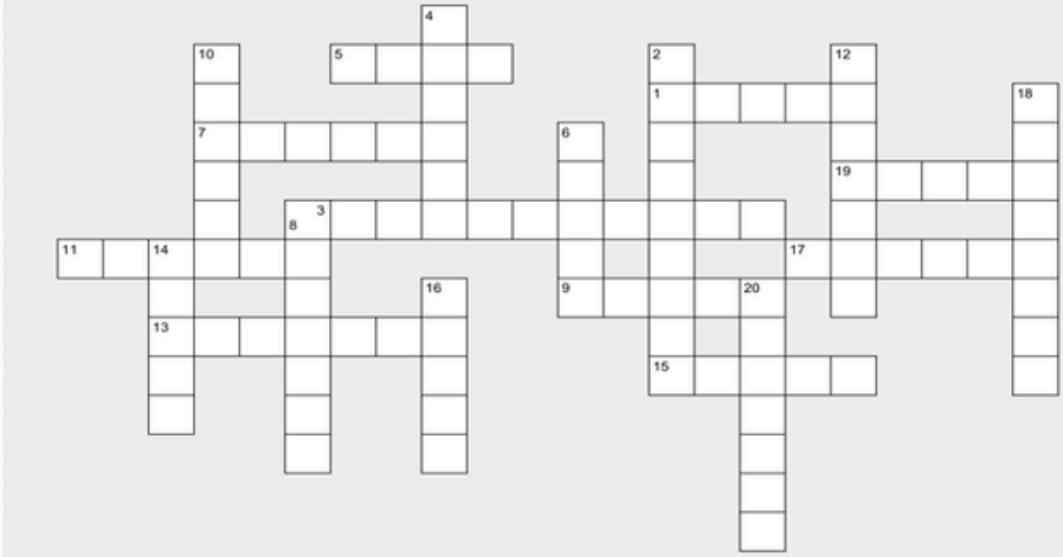
**"MEGAHKAN BAHASA KITA, BAHASA JIWA BANGSA"**

# UJI MINDA

## ARIF KOSA KATA

(MUNSYI MUDA BAHASA PERKHIDMATAN AWAM)

### ARIF KOSA KATA



**MELINTANG**

1. Makanan tradisional dari negara Jepun yang berasaskan nasi dan diletakkan lauk seperti isi ikan, sotong dan rumpai laut.
3. Pemakluman, pengumuman, pengisytiharan.
5. Melumurkan balsam atau salap pada kulit.
7. Alat yang digunakan untuk menjana tenaga elektrik daripada tenaga mekanik.
9. Perkataan homonim yang salah satu maksudnya ialah "belas kasihan" atau "penyayang".
11. Snek yang diperbuat daripada tepung beras dan dicampurkan rempah-ratus; terkenal dalam kalangan kaum India.
13. Bentuk muka bumi yang sempit di antara benua dengan semenanjung.
15. Pelat atau tidak mampu menyebut perkataan dengan sebutan yang betul.
17. Perkataan homograf yang salah satu maksudnya merupakan sejenis warna.
19. Sinonim bagi perkataan yang menjadi tajuk salah satu lagu nyanyian Aris Ariwatan.

**MENEGAK**

2. Berhenti melakukan sesuatu untuk menghilangkan penat.
4. Burung bersaiz gergasi yang sering diceritakan dalam hikayat atau karya sastera lama.
6. Waktu mulanya matahari terbenam ke arah barat.
8. Bangunan yang menempatkan buku atau bahan bacaan.
10. Sejenis pokok menumpang.
12. Sesuatu yang boleh ditemui sama ada pada insang, bunga ataupun mentol.
14. Ayah mengepit kayu itu dengan _____ sebelum mencabut keluar paku yang ditukul senget.
16. Terutama, tertinggi, paling besar.
18. Alat komunikasi yang menggunakan kuasa elektrik dan kawat.
20. Mengerling, menjeling.

Melintang
1. Susyi, 3. Pemasyhuran, 5. Oles, 7. Dinamo, 9. Rahim, 11. Murukku, 13. Genting, 15. Telor, 17. Perang, 19. Ambai

Menegak
2. Istirahat, 4. Geroda, 6. Zuhur, 8. Pustaka, 10. Dedalu, 12. Filamen, 14. Ragum, 16. Agung, 18. Telegraf, 20. Melirik

# UPCOMING EVENTS



# KKFKA

## KELAB KELUARGA FAKULTI KEJURUTERAAN AWAM

As part of its ongoing efforts, contributions and support are warmly welcomed to help sustain welfare programmes and community-based initiatives tht benefit members of the FKA family

civil.utm.my/kkfka/

### SUPPORT & CONTRIBUTIONS

Please scan the QR Code to support FKA Family Club

