KHALÎFAH - AMÂNAH - IQRA' - RAHMATAN III. ÂLAMÎN

KICT NEWSLETTER

SPECTRUM

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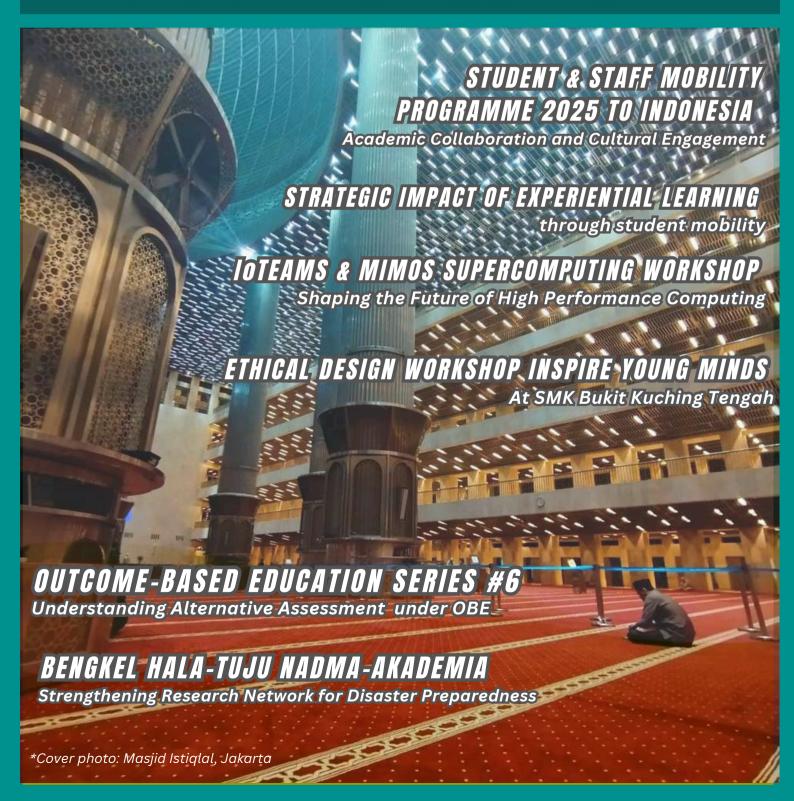


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Message from the Editor

Assalamu'alaikum warahmatullahi wabarakatuh,

It is my great pleasure to welcome you to the 9th issue of KICT Spectrum. This newsletter serves as a reflection of our collective journey celebrating achievements, sharing knowledge, and strengthening the spirit of our community.

In this edition, we showcase the outstanding contributions of our staff and students, including staff mobility, community engagement activities, postgraduate achievements, impactful workshops, research publications, and insightful talks and seminars. These accomplishments not only highlight individual excellence but also reinforce KICT's position as a hub of knowledge and innovation.

As we look ahead, I encourage everyone to remain steadfast in upholding academic excellence, advancing research, and fostering meaningful collaboration. Your dedication whether through teaching, research, or service to the community is what enables KICT to continue thriving.

I would also like to express my sincere appreciation to all contributors and the editorial team for their commitment in bringing this newsletter to life. May it serve as a source of inspiration and connection for us all.

Best regards, Hazwani Chief Editor

OUTCOME-BASED EDUCATION SERIES #6 - UNDERSTANDING ALTERNATIVE ASSESSMENT UNDER OBE



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In Outcome-Based Education (OBE), assessment plays a central role in verifying how well students have achieved the Course Learning Outcomes

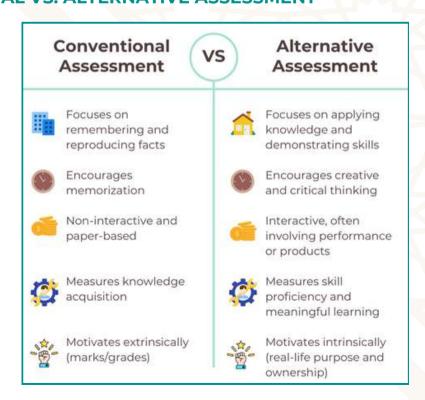
(CLOs). While traditional exams still have their place, Alternative Assessments (AA) are increasingly recognized as a more authentic way to measure students' abilities, especially in applying knowledge and performing real-world tasks.

WHAT IS ALTERNATIVE ASSESSMENT?

Alternative Assessment refers to any assessment method that goes beyond conventional tests and exams. It focuses on how well students can apply what they've learned to perform meaningful and complex tasks — not just how much they can recall.

In simpler terms, instead of asking "What do students know?", it asks "What can students do with what they know?"

CONVENTIONAL VS. ALTERNATIVE ASSESSMENT



Alternative Assessment emphasizes direct evidence of learning, such as products, performances, or reflections that demonstrate higher-order thinking.

TYPES OF ALTERNATIVE ASSESSMENT

There are two key categories:



COMMON STRATEGIES IN ALTERNATIVE ASSESSMENT

STRATEGY	DESCRIPTION	
Peer Assessment	Students evaluate each other's work, providing constructive feedback on quality and performance.	
Self-Assessment	Students reflect on their own learning, identify strengths and areas for improvement, and revise accordingly.	
Group Assessment	A team of students collaborates to solve a problem or complete a project. The lecturer monitors group progress and individual contributions.	

COMMON TECHNIQUES IN ALTERNATIVE ASSESSMENT

TECHNIQUE	PURPOSE / DESCRIPTION
Project	Encourages learners to demonstrate understanding through real-world or simulated tasks, often over several weeks.
Interview	Allows instructors to assess understanding and communication skills through guided dialogue.
Technology- Based Assessment	Uses digital platforms or tools (e.g., simulations, coding tests, online portfolios) to evaluate performance and participation.
Oral Presentation	Measures learners' ability to explain and justify ideas clearly and confidently.
Portfolio	Collects evidence of learners' progress, achievements, and reflecti <mark>ons</mark> over time.

WHY USE ALTERNATIVE ASSESSMENT?

- Promotes deep learning and long-term retention.
- Encourages creativity, collaboration, and critical thinking.
- Provides richer evidence of students' achievement of CLOs.
- Aligns with MQF 2.0 and Guidelines to Good Practices (Assessment of Student Learning).

^{*}Source: Alternative Assessment in Higher Education: A Practical Guide To Assessing Learning (2021)

KHALIFAH - AMĀNAH - IQRA' - RAHMATAN LIL-ĀLAMĪN

Staff Mobility Programme to Indonesia 2025

ACADEMIC COLLABORATION AND CULTURAL ENGAGEMENT

Article by:









Asst. Prof. Dr. Nurhafizah Manson



Asst. Prof. Dr. Nor Saadah Md Nor



Prof. Emeritus Dato' Ts. Dr. Tengku Mohd Tengku Sembok





Overview of Staff Mobility

The staff mobility programme organized by the Kulliyyah of Information and Communication Technology (KICT), IIUM was held from 12th to 19th August 2025 in Indonesia, involving key partner institutions in Tangerang, Cirebon, and Bekasi. The delegation visited Universitas Raharja (UR), Tangerang, Universitas Catur Insan Cendekia (UCIC), Cirebon, and Sekolah Alam, Bekasi, where they took part in a series of academic, research, and cultural activities designed to strengthen institutional partnerships and foster cross-border collaboration.

The programme primarily sought to reinforce collaboration between KICT and its MoU partners Universitas Raharja (UR) and Universitas Catur Insan Cendekia (UCIC) through direct engagement and institutional visits. At the same time, it aimed to facilitate academic and research discussions, promote knowledge exchange in ICT and related areas, and broaden international exposure for KICT staff, thereby enhancing their academic networking opportunities with Indonesian partner institutions.



Participants from KICT and Indonesian universities at Jakarta Airport

Academic Engagement



Welcoming remarks by Universitas Raharja and Prof. Dr. Abdul Wahab, KICT IIUM

The programme began in Tangerang with academic and research discussions at Universitas Raharja and a visit to the Alphabet Incubator, where the delegation explored entrepreneurial ecosystems and innovation-driven projects. The KICT delegation explored innovative projects by Raharja students, highlighting creativity and practical ICT applications. These projects showed how student ideas can become real-world solutions.



Visit to Alphabet Incubator, Universitas Raharja

Collaboration between KICT and Universitas Raharja has been ongoing since 2023 and was formalized through an MoU in 2024, covering staff and student exchanges, joint research grants, and innovation-driven initiatives that strengthen both academic and research capacity. Building on these foundations, the discussions at Universitas Raharja identified several key initiatives that could be pursued collaboratively for the mutual benefit of KICT, IIUM, and Universitas Raharja.





Discussion with Rector and Professor in Universitas Raharja





Visit to Sekolah Pelita Bangsa, Cirebon



Additional engagements included visits to Sekolah Pelita Bangsa and English 1 in Cirebon Taman Cipto, where discussions focused on curriculum innovation, digital learning, and educational collaboration, while it was also evident that the institutions are strongly committed to empowering knowledge and education, alongside earnest efforts to enhance economic growth and sustainability in Cirebon.

Research discussions were also held with the Dean from Faculty of Science and Technology and lecturers of Universitas Islam Negeri (UIN), Jakarta, focusing on proposals to establish EEG and Neurofeedback laboratories in Indonesia, and at Sekolah Alam, Bekasi, where collaborative projects on gamification, Al-based educational tools, and health-focused digital solutions were explored.



Visit and Discussion in Sekolah Alam, Bekasi, Indonesia



Discussion with Dean FST and Lecturer from UIN, Jakarta

Participation in ICCIT 2025

A key highlight of the mobility was active participation in the 4th International Conference on Creative Communication & Innovative Technology (ICCIT) 2025 at Universitas Catur Insan Cendekia UCIC, Cirebon. The delegation contributed significantly to the conference through plenary sessions, research presentations and chairing the parallel session.



MoU Signing Ceremony between IIUM and Asosiasi Dosen Indonesia (ADI)



ICCIT 2025 at UCIC, Cirebon, Indonesia

ICCIT 2025 Gala Dinner





Plenary speech by Prof. Emeritus Dato' Ts. Dr. Tengku Mohd Tengku Sembok

Prof. Dr. Abdul Wahab Abdul Rahman delivered a talk on EEG, qEEG, and Al, focusing on the integration of neurophysiological data with artificial intelligence for cognitive and clinical research. Prof. Emeritus Dato' Ts. Dr. Tengku Mohd Tengku Sembok presented on From GOFAI to Singularity: Threshold Theory of Al, offering critical perspectives on the evolution of Al and its theoretical implications.



Plenary speech by Prof. Dr. Abdul Wahab Abdul Rahman

The conference also provided a vital platform for networking, with multiple Indonesian universities expressing interest in formal collaborations. The day concluded with a gala dinner, which celebrated academic exchange and strengthened interpersonal ties between Malaysian and Indonesian scholars.





Cultural and Heritage Exploration

Beyond academic sessions, the programme included cultural immersion that enriched the overall experience. In Cirebon, participants visited Keraton Kasepuhan and Batik Trusmi, gaining insights into local heritage and traditional craftsmanship. Batik motifs vary across Indonesia, and in Cirebon one of the most distinctive designs is the Mega Mendung motif.





Visit to Keraton Kasepuhan, Cirebon, Indonesia



At Thamrin City, Jakarta, Indonesia



Visit to Wisata BT Batik Trusmi, Cirebon, Indonesia



At Terasultan, Jakarta, Indonesia

Meanwhile in Jakarta, visits to the Istiqlal Mosque, the Terowongan Silaturahim, Terasultan, Thamrin City and Pantai Indah Kapuk (PIK) offered meaningful encounters with Indonesia's cultural and religious identity. The itinerary was complemented by marketplace visits to Pasar Lama and Thamrin City, giving participants a glimpse into everyday community life.



At Terowongan Silaturahim, Jakarta, Indonesia

Outcomes and Impact

The mobility achieved multiple impactful outcomes. An MoU was signed with 10 Indonesian universities, expanding IIUM's international research and academic network. Another MoU with Talenta was established to drive joint research on learning disabilities, brain analytics, and gamification. Collaborative initiatives included the launch of a start-up project between KICT, EDC, and Universitas Raharja, the co-development of an AI speech recognition-based game, and a proposal to establish EEG and Neurofeedback laboratories in Indonesia. Agreements were also reached to deliver online lectures in Software Engineering, Software Design and Architecture, and Technopreneurship. Both parties also discussed and agreed on the commitment to carry out community engagement initiatives in future.



Indonesian universities showing interest in collaboration through MoUs with IIUM

Short Video on Staff Mobility Activity







LEADING THE WAY

TAWHIDIC EPISTEMOLOGY UMMATIC EXCELLENCE LEADING THE WORLD

KHALIFAH - AMANAH - IQRA' - RAHMATAN LIL-'ALAMIN

STUDENT MOBILITY 2025

KICT STUDENTS IN INDONESIAN UNIVERSITIES

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The recent student mobility program between the Kulliyyah of Information and Communication Technology (KICT), IIUM, and Indonesian universities marked an enriching exchange of knowledge and culture. From 6th to 12th August 2025, KICT had the honor of hosting 14 students and 3 lecturers from Indonesia. During their stay, the delegates joined academic activities, discussions, and cultural programs that helped build networks and mutual understanding.

Following this, 15 KICT students accompanied by 7 KICT staff were given the opportunity to visit Indonesian universities from 12th to 19th August 2025. The program allowed students to learn in new academic settings, gain wider perspectives, and improve their knowledge through international collaboration. This exchange strengthened academic ties and helped students become future-ready with global exposure and cross-cultural skills.

Information provided by KICT Mobility Students:

Nina Syahira Azman, Siti Nur Raihannah Mohd Nazrul, Zullaikha Zulzahrin, Ungku Qistina Ungku Mohd Faris, Sofeah Khairun Nisa Asman, Nur Iman Amani Ahmad Akhir, Syed Muhammad Afiq Idid Syed Azli Idid, Soleha Puteri Mohamad Ramli, Nur Syazwani Sadzmer, Hannah Batrisyia Mohd Azhar, Farhan Affan S. Salahudin, Farah Irdina Ahmad Zulkiflee, Nurul Balqis Jamhari, Nur Nagiyyah Murshidah Ahmad Wudan Nadzran, Azwa Nurnisya Ayub

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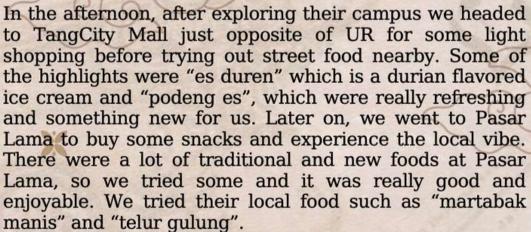
CAMPUS & TANGERANG TOUR





ES DUREN

We arrived at Universitas Raharja (UR) and started off with a short ice breaking session with the lecturers, which helped us get more comfortable with everyone. After that, we went on a campus tour around UR to explore the facilities and get a feel of the environment there.



For dinner, we enjoyed a shellout meal together at a restaurant called D'Jajan Seafood which was both filling and fun. We all sat down in the same room and ate together along with the lecturers and students from university of raharja. After a long but exciting day, we made our way back to the hotel to rest and prepare for the next day.



PODENG ES



DINNER AT D'JAJAN SEAFOOD

KHALIFAH - AMANAH - IQRA' - RAHMATAN LIL-ALAMIN

EXPLORING EDUCATION





On 14 August 2025, we went to Sekolah Pelita Bangsa (SPB) in Cirebon which offers globalstandard education from Early Childhood to Junior College, all accredited 'A' by BAN. As a Cambridge International School and HSK center. SPB emphasizes English, testing Mandarin. and Indonesian, creating supportive "second home" environment with strong parent partnerships and diversity values. Facilities include an auditorium. playgrounds, library, labs, sports arena, and cafeteria. We also visited English 1 Cirebon Taman Cipto, focused on expressive English learning, before moving to Swiss-Bell and Sutan Raja Hotel for the conference.

ICCIT DAY

Our fourth day in Indonesia was dedicated to the International Conference on Communication and Information Technology (ICCIT) 2025, beginning with the Opening Ceremony in the morning. During lunch, we explored Ramnu Café, enjoying its cozy atmosphere and signature spicy dishes that showcased the city's food culture. In the afternoon, 10 of us served as Co-Session Chairs, assisting with presentations, managing sessions, and gaining valuable communication and leadership skills while witnessing innovative projects from different countries, while the others attended the discussion about technology with the lecturers.









The day concluded with the Closing Ceremony and Gala Night, featuring captivating traditional Indonesian dances and the presentation of certificates of student exchange by the rectors of UCIC and UR. It was a memorable day filled with learning, cultural appreciation, and celebration.



TAWHIDIC EPISTEMOLOGY LEADING THE WAY

UMMATIC EXCELLENCE LEADING THE WORLD

KHALÎFAH - AMÂNAH - IQRA' - RAHMATAN LIL-ÂLAMÎN

CIREBON TOUR

Our final day in Cirebon was dedicated to exploring the city's rich cultural and Islamic heritage. We began with a visit to Keraton Kasepuhan, the 15th-century palace of the Sultanate of Cirebon, where we learned how Javanese, Islamic, and European influences shaped its architecture and history. For example, the intricate carvings and spacious courtyards reflected Javanese culture, while the presence of a royal mosque and Islamic motifs symbolized the influence of Islam in governance and daily life. Additionally, some structures showed Dutch colonial influence, which demonstrated the multilayered history of the region. Afterward, we explored Batik Trusmi, a renowned batik center, where we discovered Cirebon's signature Mega Mendung motif, engaged with local artisans, and observed how the batik industry sustains local communities. The day concluded with our departure back to Tangerang, carrying meaningful reflections on culture, history, and heritage preservation.







JAKARTA TOUR



Our day in Jakarta began with a visit to Thamrin City, where we enjoyed shopping for affordable batik, traditional outfits, and accessories while experiencing Indonesia's cultural identity through fashion and craftsmanship.

In the afternoon, we visited the magnificent Istiqlal Mosque, Southeast Asia's largest mosque, where a guided tour revealed its deep architectural symbolism tied to Islam and Indonesia's independence.

We also shared a meaningful lunch at Terasultan Restaurant, followed by a rare chance to walk through the Terowongan Silaturahim, the underground tunnel connecting Istiqlal Mosque and Jakarta Cathedral, symbolizing interfaith harmony.

In the evening, we had a relaxing visit to PIK 2 (Kota Belanda), a scenic area inspired by Dutch architecture, where we had dinner and free time before heading back to our accommodation.

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WORKSHOP & FAREWELL

On our last full day of the cultural exchange, we attended an AI workshop at Universitas Raharja led by Prof. Ankur from India, where we learned to build systems like a Smart Property Valuation model, a Netflix Recommendation Engine, and a Gmail Security Shield. The session highlighted AI's potential, its evolving role in various fields, and the importance of ethical use.

After lunch and recordings with UR students, we joined a city tour on the JAWARA bus, sampling Tangerang's culinary heritage with local dishes such as Laksa and Otak-otak. The evening was marked by a heartwarming farewell ceremony, with singing, laughter, and a gift exchange that reflected the hospitality of Universitas Raharja. As we took countless photos and said emotional goodbyes, the day closed with free activities, bringing a memorable program to an end.







SHORT VIDEO



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https://www.instagram.com/p/DNzk so75k0l/?

img_index=12&igsh=MWNjaXN1O W1mYzA0cQ==







STUDENT EXCHANGE PROGRAM (INBOUND)

WELCOME TO IIUM

6 - 12 AUGUST 2025



ESTER ANANDA NATALIA



ELISA ANANDA NATALIA



UR Kanda Lentera Ahsanlateef



UR MUHAMMAD RIFAT SYAUQY



UR MEGA LESTARI



UR ANANDHA FITRIANI



UR JOYCE FEBBY URSULA



UR CAHYA KUMALA DEWI



RAIHAN



UR SYLVA DWIJANTI



UR PRIMA HAFIDZ MUMTAZI



UCIC MUHAMMAD SAEFUL ANWAR



UCIC YOSAFATTRINOVI ANTO



UEU JUHDIJANTO











STUDENT EXCHANGE PROGRAM (OUTBOUND)

TO JAKARTA, INDONESIA 12 - 19 AUGUST 2025



KICT AZWA NURNISYA BINTI AYUB



KICT ZULLAIKHA BINTI ZULZAHRIN



KICT NUR IMAN AMANI BINTI AHMAD AKHIR



KICT **FARAH IRDINA** BINTI AHMAD ZULKIFLEE



KICT NINA SYAHIRA **BINTI AZMAN**



KICT SOFEAH KHAIRUN NISA BINTI ASMAN



KICT **NUR SYAZWANI** BINTI SADZMER



KICT **FARHAN AFFAN** BIN S SALAHUDIN



KICT HANNAH BATRISYIA BINTI MOHD AZHAR



KICT **NURUL BALOIS BINTI JAMHARI**



KICT SITI NUR RAIHANNAH BINTI MOHD NAZRUL



KICT UNGKU OISTINA **BINTI UNGKU** MOHD FARIS



KICT SYED **IDID BIN SYED** AZLI IDID



KICT NUR NAOIYYAH MUHAMMAD AFIO MURSHIDAH BINTI AHMAD WUDAN NADZRAN



KICT SOLEHA PUTERI BINTI MOHAMAD RAMLI







THE STRATEGIC IMPACT OF EXPERIENTIAL LEARNING THROUGH STUDENTS MOBILITY



Article by:

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From the 12th to the 19th of August 2025, the Kulliyyah of Information and Communication Technology (KICT) successfully executed a strategic student

mobility program in Jakarta, Indonesia, in partnership with Universitas Raharja (UR). This initiative exemplifies KICT's commitment to experiential learning, providing students with an immersive platform to translate academic theory into practical, real-world application. The week-long engagement was a rigorous exercise in personal and professional development, designed to build competencies that transcend geographical and cultural boundaries.



TRANSFORMATIVE LEARNING BEYOND THE CLASSROOM

Student mobility is a cornerstone of modern pedagogy, recognized as a high-impact practice for holistic development. By moving the learning environment into a global context, we challenge students to engage directly with the complexities of the world. This program was designed to be more than a trip instead can be considered as applied learning laboratory.

DEVELOPING A GLOBAL MINDSET AND PERSONAL RESILIENCE

A primary outcome of international experiential learning is the cultivation of a sophisticated global perspective. By navigating a new cultural and academic landscape, our students were compelled to adapt and solve problems independently. This was evident not just in formal sessions, but in everyday interactions—from navigating Tangerang to try local street food like "es duren" and "martabak manis," to engaging with local artisans at the Batik Trusmi.





Immersing themselves in Indonesia's rich heritage at landmarks like the Keraton Kasepuhan palace and the Istiqlal Mosque provided deep, contextual learning. A particularly powerful moment was walking through the Terowongan Silaturahim, an underground tunnel connecting the mosque and the Jakarta Cathedral, which served as a profound symbol of interfaith harmony. These direct experiences pushed students beyond their comfort zones, enhancing their self-confidence and nurturing a more nuanced understanding of diverse societal norms.

CULTIVATING ESSENTIAL PROFESSIONAL COMPETENCIES

The program was intentionally structured to develop the skills critical for success in the global technology sector. Through hands-on engagement, students honed key professional attributes:

 Collaborative Synergy and Leadership: The International Conference on Communication and Information Technology (ICCIT) 2025 at Universitas Catur Insan Cendekia (UCIC) provided a unique platform for professional growth. Ten of our students took on the role of Co-Session Chairs, where they were responsible for managing sessions and assisting international presenters.



 Intercultural Communication: From the initial ice-breaking session to sharing a dinner with their Indonesian peers, students constantly practiced effective and culturally sensitive communication. These informal interactions were just as valuable as the formal academic sessions, providing priceless training for navigating multicultural settings.

"These programs are instrumental in shaping not just skilled professionals, but adaptable, culturally aware leaders of tomorrow. We witnessed remarkable growth in our students in just one week."

- KICT Program Coordinator (Dr. Noor Azura Zakaria)

ACKNOWLEDGEMENT TO OUR ESTEEMED FACULTY

This impactful program was made possible by the dedication and leadership of our esteemed lecturers:

- Prof. Emeritus Dato' Ts. Dr. Tengku Mohd bin Tengku Sembok
- Prof. Dr. Abdul Wahab Abdul Rahman
- Asst. Prof. Dr. Nor Saadah binti Md Nor
- · Asst. Prof. Dr. Nurhafizah binti Mahri
- Asst. Prof. Dr. Suhaila binti Samsuri
- Asst. Prof. Dr. Noor Azura binti Zakaria
- Asst. Prof. Dr. Nur-Adib Maspo

PUBLISHING A CASE STUDY

To further analyze and share the profound impact of this mobility program, the team has initiated a questionnaire to develop and publish a detailed case study. This report will formally document the outcomes of the initiative, focusing specifically on its success as a model for high-impact experiential learning. The case study will serve as a valuable resource for academic and institutional advancement, providing a blueprint for designing future international collaborations.

CONCLUSION

The success of the mobility program with Universitas Raharja marks a significant milestone in KICT's internationalization strategy. We are dedicated to providing our students with high-impact educational opportunities that equip them with a competitive edge in a globalized world.

We extend our sincere gratitude to Universitas Raharja and UCIC for their invaluable partnership and warm hospitality. We look forward to strengthening this collaboration and developing future initiatives that empower our students to learn, connect, and lead.

IOTEAMS AND MIMOS SUPERCOMPUTING WORKSHOP:

SHAPING THE FUTURE OF HIGH-PERFORMANCE COMPUTING



Article by:

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AINUL HANI MOHD MANOJ

15 October 2025 - A total of 16 students from the loTeams Club, Kulliyyah of Information and Communication Technology (KICT) participated in the MIMOS Supercomputing Workshop, an introducing session insightful participants High Performance to Computing (HPC) technologies and their real-world applications in Malaysia.



A group photo of 16 KICT students from IoTeams Club during their visit to MIMOS

The workshop began with an overview of HPC, highlighting its low latency, parallel file systems, and scheduling capabilities that power large-scale simulations and AI training. The MIMOS CTO introduced the Data Save Haven initiative, a secure platform designed to store sensitive national datasets, particularly healthcare data, enabling AI-driven research to advance medical innovation.

Representatives from the Malaysian Meteorological Department presented the Numerical Weather Prediction (NWP) System, which leverages HPC to simulate atmospheric changes for accurate weather forecasting. The session also covered HPC access through SIFULAN, Malaysia's authentication framework, guided by the AARC Blueprint for consistent policy enforcement.

Several industry partners shared their advancements in HPC technology, including SNS Network Berhad, which discussed strengthening Malaysia's Al data center value chain through operations, development, and R&D. Lenovo showcased its cutting-edge HPC solutions featuring liquid cooling (Neptune) and solar-powered systems for sustainable computing. Dr. KunBin Hong, General Manager of Solution at Supermicro, introduced plug-and-play liquid-cooled rack systems for efficient deployment, while AWS (Amazon Web Services) demonstrated Amazon Q Developer, an Al-powered coding assistant that enables users to develop and debug software using natural language commands.

Finally, Assoc. Prof. Dr. Yap Yung Szen (UTM) delivered an engaging session on Quantum Computing, explaining its conceptual leap from classical physics where, unlike a ball bouncing off a wall, quantum particles can pass through barriers, symbolizing the next frontier in computing.

The workshop offered participants valuable insights into the integration of AI, data, and supercomputing key pillars shaping Malaysia's digital and technological future.

ETHICAL DESIGN WORKSHOP INSPIRES YOUNG MINDS FROM SMK BUKIT KUCHING TENGAH

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A total of 86 participants, including students and teachers from SMK Bukit Kuching Tengah, visited the Kulliyyah of Information and Communication Technology (KICT) to take part in an engaging Ethical Design Workshop on 16 July 2025 (Wednesday) held at KICT Multipurpose Hall (MPH). The programme was designed to address two key challenges faced by the school (which were identified earlier) - students' low motivation to attend school and the lack of ethical awareness in creative and technological design.

The workshop aimed to help students become more interested in learning again and to show them that being creative also means being responsible and caring. It encouraged students to understand how knowledge, ethics, and innovation can work together to make a positive difference in their community.

Before the workshop, the group visited the Neurocoach Digital Lab (NDL), hosted Marini Othman, where by Dr. learned how neurotechnology support focus, self-control and mental well-being. They also visited GamesMY, hosted by Dr. Suhaila Samsuri, where explored game design discovered how games can be fun while still teaching moral and social values.







After the lab visits, students and teachers received a welcoming address from the Dean of KICT, Prof. Emeritus Dato' Dr Tengku Mohd Bin Tengku Sembok. The students were then briefed about IIUM and its programmes, giving them a glimpse of university life and study opportunities. The briefing was given by Assoc. Prof. Dr. Lili Marziana Abdullah.

After that, the students, attended an Ethical Design Talk by Dr. Aznan Zuhid Bin Saidin, which highlighted the importance of designing with empathy, responsibility and care for others and the environment.







Students then joined a series of exciting workshops that blended art, science, and environmental awareness:

- Ecological Batik Printing: Students designed batik patterns using natural dyes and leaves, learning the importance of sustainable and culturally inspired art.
- Soap from Used Cooking Oil: A fun and educational session where students transformed waste oil into soap, gaining awareness about recycling, chemistry, and sustainability.
- Mini Racing Cars from Recycled Materials: Students worked in teams to design small cars using discarded bottles and straws, encouraging creativity, teamwork, and basic physics learning.

The 'Ecological Batik Printing Workshop' was led by Dr. Elin Eliana, the 'Soap Making Workshop' was led by Dr. Dini Handayani and the 'Mini Racing Cars Workshop' was led by Dr. Atikah Balqis.



To tackle the issue of low school attendance and learning motivation, the programme ended with a motivational talk that encouraged students to believe in themselves, stay focused, and value education. The session, conducted by Dr. Siti Asma Mohammed and Prof. Dr. Murni Mahmud, reminded them that success begins with curiosity, hard work and a positive attitude toward learning.



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'BENGKEL HALA TUJU RAKAN NADMA - AKADEMIA'

STRENGTHENING RESEARCH NETWORKS AND DISASTER PREPAREDNESS



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Putrajaya - 9 October 2025. The 'Bengkel Hala Tuju Rakan NADMA-Akademia' (Rakan NADMA - Akademia Strategic Direction Workshop) was held at the Everly Hotel, Putrajaya. The workshop was officiated by Tuan Haji Hussain Moh, Deputy Director (Post-Disaster), National Disaster Management Agency (NADMA). The event brought together 50

participants, representing 13 higher learning institutions and six NGO partners, marking an important milestone in advancing collaborative disaster risk management efforts between academia and NGOs.

A PLATFORM FOR COLLABORATION AND COMMUNITY-DRIVEN INNOVATION

The workshop aimed to refine the strategic direction of the Rakan NADMA-Akademia initiative, envisioned as a formal collaborative platform linking NADMA, universities, and NGOs. The discussion focused on identifying research and innovation areas related to Disaster Risk Reduction (DRR) and Disaster Risk Management (DRM) that could be translated into evidence-based policies and actionable strategies.

Another key objective was to establish an academic support network to strengthen the capacity of NGO partners in disaster risk management. The session also served as a space for participants to consolidate an initial repository of research projects related to DRR and DRM from participating universities, forming a foundation for future knowledge-sharing and collaboration.

PARTICIPATION FROM KEY NGOS' INVOLVED IN DISASTER MANAGEMENT

The workshop featured strong participation from NADMA's NGO partners, including:

- Malaysian Relief Agency (MRA) a dedicated non-profit organization, focusing on disaster response by providing humanitarian aid and relief to those in need. MRA is represented by Dr. Shahrizal Azwan Shamsudin.
- Malaysian Red Crescent Society (PBSM), a voluntary humanitarian organization that provide service (first-aid) and public education in disaster management. PBSM is represented by Datuk Dr. Hj. Mohamed Alwi Bin Abdul Rahman.
- BeVital Physiotherapy Centre, represented by Dr. Rashidi, shared valuable insights from their disaster response experience and urged academia to engage in community-centred research.
- Malaysian Amateur Radio Emergency Service Society (MARES), an amateur radio enthusiasts club, focused on providing radio communication assistance during emergency and disaster.
- MERCY Malaysia, a non-for-profit organization that focuses on providing medical relief, sustainable health-related development, risk reduction activities and building resilient communities for vulnerable communities in crisis and non-crisis situations.



Among NGO's participated in the workshop includes Mercy Malaysia, Malaysian Relief Agency, Malaysian Red Crescent (PBSM), BeVital, and MARES.

PROPOSED INITIATIVES AND TRAINING PROGRAMMES

During roundtable discussion between universities and NGOs, among the ideas discussed were several capacity-building and knowledge-exchange initiatives, including:

- Joint training with PBSM by integrating disaster awareness education from school level and conducting risk assessments for chemical and biological hazards (CBRA)
- Co-organizing volunteer preparedness programmes focusing on hygiene and environmental safety in disaster zones.
- Educational visits to international disaster learning sites such as the Aceh Tsunami Museum in Indonesia and the Kobe Earthquake Memorial Museum, Japan.

RESEARCH FOCUS: LOW-COST, HIGH-IMPACT, AND RAPID SOLUTIONS

The primary focus highlighted throughout the workshop was the importance of producing R&D outputs that are cost-effective, high-impact, and rapidly deployable in real disaster situations. Participants emphasized the need for research that not only generates academic publications but also directly benefits affected communities.

In terms of future R&D opportunities, workshop participants identified the potential for research on sustainable, nutritious, and long-lasting food products that remain edible during disaster situation, linking innovation in food technology and Halal food production.

Discussions also addressed the importance of communication and power resilience, with MARES offering technical support through alternative radio-based communication systems during power or network outages.

A notable research direction proposed was the use of digital technologies for large-scale evacuation management and shelter coordination (Pusat Pemindahan Sementara - PPS). Potential applications include:

- Mapping and categorizing evacuation centres based on ageappropriate facilities (primary schools for children, secondary schools for adults).
- Updating PPS data every five years to maintain accuracy and relevance.
- Integrating environmental mapping to identify natural food sources around evacuation zones for improved local resilience.

A STEP TOWARDS NATIONAL RESILIENCE

The workshop provided valuable insights from both the academic and NGOs perspectives, particularly regarding impact assessment, community capacity building, and policy translation of research findings. The workshop represents an important step forward in reinforcing synergy between academia and NGO, strengthening Malaysia's disaster risk management ecosystem through evidence-based, collaborative, and community-impactful approaches.







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Team Members

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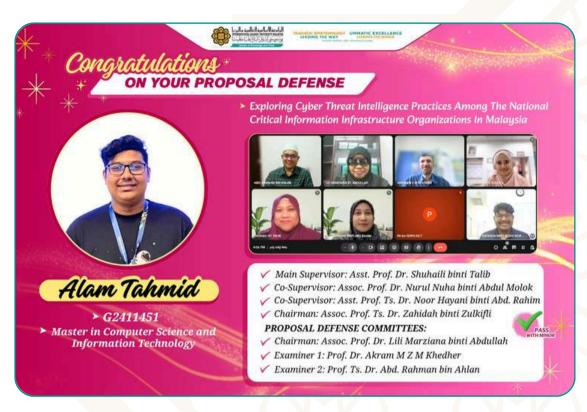


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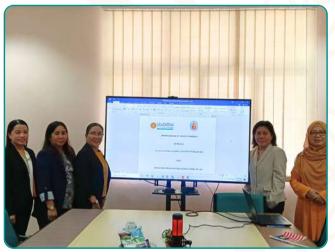




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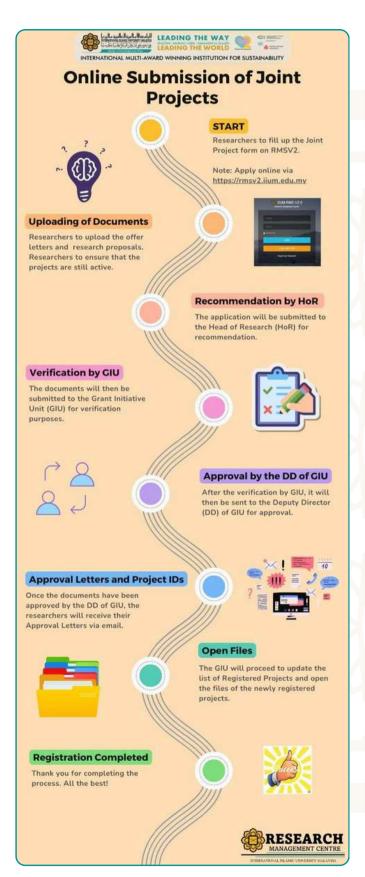


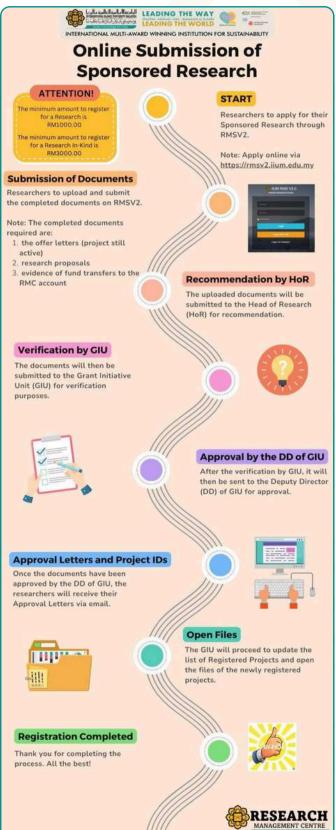






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