



الجامعة الإسلامية العالمية ماليزيا
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
بُونْدُوسْتِي اِسْلَامَ اِنْتَارَا اِنْدُونِيسِيَا
Garden of Knowledge and Virtue

TAWHIDIC EPISTEMOLOGY
LEADING THE WAY

UMMATIC EXCELLENCE
LEADING THE WORLD

KHALĪFAH • AMĀNAH • IQRA' • RAHMATAN LIL-ĀLAMĪN

KICT NEWSLETTER

SPECTRUM

October 2025

Issue 9

EISSN 3083-9904

STUDENT & STAFF MOBILITY PROGRAMME 2025 TO INDONESIA

Academic Collaboration and Cultural Engagement

STRATEGIC IMPACT OF EXPERIENTIAL LEARNING *through student mobility*

IoT EAMS & MIMOS SUPERCOMPUTING WORKSHOP

Shaping the Future of High Performance Computing

ETHICAL DESIGN WORKSHOP INSPIRE YOUNG MINDS

At SMK Bukit Kuching Tengah

OUTCOME-BASED EDUCATION SERIES #6

Understanding Alternative Assessment under OBE

BENGKEL HALA-TUJU NADMA-AKADEMIA

Strengthening Research Network for Disaster Preparedness

*Cover photo: Masjid Istiqlal, Jakarta

TABLE OF CONTENTS

MESSAGE FROM THE EDITOR	3
REPORTS ON ACTIVITIES	
• Outcome-Based Education Series #6 – Understanding Alternative Assessment	4
• Staff Mobility Programme to Indonesia 2025: Academic Collaboration and Cultural Engagement	7
• Student Mobility 2025: KICT Students in Indonesian Universities	13
• The Strategic Impact of Experiential Learning through Student Mobility	20
• IoTeams and MIMOS Supercomputing Workshop: Shaping the Future of High Performance Computing	24
• Ethical Design Workshop Inspires Young Minds from SMK Bukit Kuching Tengah	26
• ‘Bengkel Hala Tuju Rakan NADMA - Akademia’: Strengthening Research Networks and Disaster Preparedness	30
NEW APPOINTMENTS	34
STAFF ACHIEVEMENTS	
• Research Project Completion	35
• Invited Keynote Speaker	37
POSTGRADUATE STUDENTS ACHIEVEMENTS	
• Completion of PhD Viva-voce	38
• Completion of Viva (PTM)	39
• Completion of Proposal Defense	40
KULLIYYAH ACTIVITIES	42
TALK & SEMINARS	47
RESEARCH TIPS AND FAQ	48
PUBLICATIONS	49

EDITORIAL BOARD

CHIEF EDITOR

ASST.PROF. TS. DR. HAZWANI
MOHD MOHADIS

SECTION EDITOR

- ASST. PROF. DR. NURAZLIN
ZAINAL AZMI
- ASST. PROF. DR. NOR
SA'ADAH MD NOR
- ASST. PROF. TS DR. HAFIZAH
MANSOR
- ASST. PROF. DR. SHAKIROH
KHAMIS
- ASST. PROF. TS. DR. AHMAD
ANWAR ZAINUDDIN
- ASST. PROF. DR. ATIKAH
BALQIS BASRI
- ASST. PROF. DR.
NURHAFIZAH MAHRI
- MDM NOOR AZIAN
MOHAMMAD ALI

COMMUNICATION MANAGER
NURLAILI SANADI

GRAPHIC DESIGNER
NORFARHANAH RAMLI

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



Staff Mobility Programme to Indonesia 2025

ACADEMIC COLLABORATION AND CULTURAL ENGAGEMENT

Article by:



Asst. Prof. Dr. Noor Azura Zakaria
Department of Computer Science
azurazakaria@iiu.edu.my



Asst. Prof. Dr. Suhaila Samsuri
Department of Information Systems
suhailasamsuri@iiu.edu.my



Asst. Prof. Dr. Nur-Adib Maspo
Department of Computer Science
nuradibmaspo@iiu.edu.my



Asst. Prof. Dr. Nurhafizah Mansor
Department of Information Systems
nurhafizahm@iiu.edu.my



Asst. Prof. Dr. Nor Saadah Md Nor
Department of Library and
Information Science
norsaadahnor@iiu.edu.my



**Prof. Emeritus Dato' Ts. Dr. Tengku
Mohd Tengku Sembok**
Department of Computer Science
tmsts@iiu.edu.my



Prof. Dr. Abdul Wahab Abdul Rahman
Department of Computer Science
abdulwahab@iiu.edu.my



Overview of Staff Mobility

The staff mobility programme organized by the Kulliyah 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.



Visit to English 1, 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, AI-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 AI, 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 AI, offering critical perspectives on the evolution of AI 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 Wisata BT Batik Trusmi , Cirebon, Indonesia



At Terasultan, Jakarta, Indonesia

Meanwhile in Jakarta, visits to the Istiqlal Mosque, the Terowongan Silaturahmi, 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.



Visit to Keraton Kasepuhan, Cirebon, Indonesia

Visit to Istiqlal Mosque, Jakarta, Indonesia



At Thamrin City, Jakarta, Indonesia



At Terowongan Silaturahmi, 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

