

BIT@FK

BIL. 3, AUGUST-SEPTEMBER, 2024

FACULTY OF COMPUTING LAUNCHES INNOVATIVE FACULTY@SCHOOL INITIATIVE IN DIGITAL INNOVATION EDUCATION



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COORDINATORS' NOTE



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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
السَّلَامُ عَلَيْكُمْ وَرَحْمَةُ اللَّهِ وَبَرَكَاتُهُ

Dear Readers,
الْحَمْدُ لِلَّهِ

We are pleased to present the third edition of the BIT@FK Bulletin for August- September 2024. This issue reflects the hard work and dedication of our academic community, and we are excited to share it with you.

In this edition, we proudly showcase the achievements of our faculty and students. Whether in research, competitions, industries collaboration or community projects, their successes highlight the quality of education and mentorship at our faculty.

Our students have excelled in various areas, both nationally and internationally, demonstrating the skills and values we emphasise in our programmes. Our faculty members also continue to make important contributions through their research and leadership.

The BIT@FK Bulletin is more than just a newsletter; it is a platform to promote the vibrant and supportive environment within our faculty. We aim to inspire and inform you through the articles in this edition, showing the talent and commitment that define our academic community.

As we continue to grow, we are committed to upholding high standards in academic publishing. We welcome your feedback and ideas, as your support is vital to our success.

We would also like to thank all the contributors, reviewers, and the editorial team for their efforts in making this issue possible.

We hope you enjoy this edition of the BIT@FK Bulletin and feel proud of being part of our faculty. Thank you for your continued support.

Sincerely,
BIT@FK Bulletin Coordinators

Faculty of Computing Launches Innovative Faculty@School Initiative in Digital Innovation Education

Date : 21/8/2024

Source : TS. Aziman Abdullah

The Faculty of Computing (FK) at Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) recently launched the Faculty@School Programme to raise awareness about the importance of innovation skills and to encourage students to explore opportunities in Digital Technology, particularly Artificial Intelligence (AI).

The programme began with Phase 1, focusing on fostering collaboration with MARA Junior Science College (MRSM) Tun Abdul Razak in Pekan and inspiring a culture of innovation.

While Phase 2 will include an educational visit to UMPSA's Computer Technology Lab, where students and teachers will engage directly with technology experts and explore digital technologies.

In Phase 3, FK's specialists will mentor students from MRSM Tun Abdul Razak to enhance their skills and creativity in Digital Technology.

This initiative, as noted by FK's Dean, Associate Professor Ts. Dr. Adzhar Kamaludin, is part of FK's commitment to advancing technological education in the country, aiming to prepare a digitally skilled and innovative young generation.



Bridging Education and Innovation: A Successful Visit by MRSM Tun Abdul Razak to FK

Date : 24/9/2024

Source: TS. Aziman Abdullah

A total of 44 students from MRSM Tun Abdul Razak, Pekan, accompanied by 5 teachers, visited the Faculty of Computing, Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) today as part of a learning excursion. This laboratory visit program is an initiative of the Faculty@School program, a collaboration between the Department of Academic and International Affairs (JHEAA) and the Faculty of Computing, aimed at introducing the academic programs offered at UMPSA.

The students visited various laboratories, including the Virtual Reality (VR) laboratory, Motion Capture laboratory, Network laboratory, and Cybersecurity laboratory. They were given technical exposure and had the opportunity to interact with expert lecturers in their respective fields. One of the most interesting aspects for the students was the VR application, where they had the chance to experience the use of VR technology firsthand.

It is hoped that the learning experience gained from this visit will inspire and motivate the delegation to pursue and further their education at the higher education level in the future.



SMK Banggol Kemaman Students Visit Faculty of Computing for a Learning Experience

Date : 24/9/2024

Source : TS. Aziman Abdullah

The Faculty of Computing welcomed 40 students from Sekolah Menengah Kebangsaan (SMK) Banggol Kemaman, accompanied by three teachers.

The visit was led by the Pre-SPM Project Coordinator, Puan Baizura Norida binti Mohamad Noor, and they were warmly received by the Faculty's Promotion Coordinator, Ts. Dr. Aziman bin Abdullah. During the visit, students and teachers attended an introductory briefing delivered by Ts. Dr. Nurzety Aqtar Binti Ahmad Azuan, the Programme Head (Master's and Knowledge Development) of the Faculty of Computing. A detailed presentation was given by Ts. Dr. Aziman bin Abdullah.

The group was also taken on a tour of the various laboratories and facilities available at the Faculty of Computing. It is hoped that this visit provided the students with an insight into the learning environment at public universities and inspired them to excel in their studies."



Building Bonds: Strengthening Team Spirit at UMPSA's Faculty of Computing

Date : 06-08/9/2024
Source : KESUKOMP

The Faculty of Computing (FK) at Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) successfully held a three-day team-building workshop from 6th to 8th September 2024 at Tanah Aina Farrah Soraya Eco-Resort in Raub, Pahang. The workshop was attended by 96 faculty staff, with the main aim of strengthening relationships and promoting teamwork among them.

Feedback from participants was positive, indicating that the workshop met its goals of enhancing staff connections and fostering a spirit of collaboration to achieve the faculty's vision and mission. The planned activities not only aimed to boost teamwork but also to revive positive values among the staff.

In addition to motivational sessions and lectures after group prayers, the workshop included fun and challenging outdoor activities. Participants engaged in jungle trekking, river swimming, zip-lining, and refreshing morning walks. These activities tested their physical and mental resilience while also strengthening teamwork and understanding among them.

The Quran Reflection activities successfully linked daily work at the faculty with the teachings of the Quran, guiding staff to be more committed and honest in their daily tasks. Participants expressed their awareness and reflection through religious lectures, which reminded them of the importance of aligning daily practices with Islamic teachings.

Overall, the FK team-building workshop not only succeeded in fostering closer cooperation among the staff at UMPSA's Faculty of Computing but also provided valuable spiritual and physical experiences for all participants.



Team CyberX - Students from Faculty of Computing UMPSA Win Prestigious Award as Champions of Astro-NACSA Coding Challenge 2024

Date: 1/8/2024
Source : Team CyberX

In a remarkable achievement, students from the Faculty of Computing at Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) won the Astro-NACSA Coding Challenge 2024 (ANCC2024). The award was presented by Prime Minister YAB Dato' Seri Anwar bin Ibrahim at the Cyber Security Summit 2024, held at the Putrajaya International Convention Centre. The winning team, CyberX, consists of Logathepan A/L Muniyappan, Yattish A/L Jaya Nanda Kumar, and Shatthiya Ganes A/L Sivakumaran. They developed CIPHERKEY, a password management app designed to improve digital security with features like encryption, threat detection, security analytics, an AI chatbox, and URL checking. A video demonstration of their project is available [here](<https://www.youtube.com/watch?v=zwPOR007MB8>).

Organised by the National Cyber Security Agency (NACSA) and Astro Malaysia, the competition challenged students from universities across Malaysia to create mobile applications addressing cybersecurity threats. CyberX's victory brought national recognition to UMPSA and was celebrated with awards from sponsors BlackBerry-CompTIA, Cisco, and Huawei. Team leader Logathepan expressed his gratitude to their advisor, Ts. Dr. Nor Saradatul Akmar Zulkifli, for her support, as well as to the sponsors and his teammates, emphasising the importance of teamwork in their success. This achievement highlights UMPSA's commitment to fostering innovation in cybersecurity, inspiring students to tackle global digital security challenges.



CyberSphere Solution Wins Gold at Digital Innovation Creativepreneur Competition (DICE 2.0) Competition

Date : 17-20/8/2024

Source : CyberSphere Solution

CyberSphere Solution has proudly secured the Gold Medal in the Interaktif Media AR/VR category at the Digital Innovation Creativepreneur Competition (DICE) 2.0 competition, a prestigious event that spanned 10 months beginning in November 2023. This achievement is particularly remarkable as the team, whose expertise lies outside of AR, was encouraged by their university's entrepreneurship centre to participate.

Their winning project, JOMSCAN, is an innovative AR currency exchanger app that brings Malaysian banknotes to life. The app allows users to scan currency and access real-time exchange rates, historical insights, and interactive learning experiences.

CyberSphere Solution is excited to announce that users can now download the APK file to test the initial prototype version of JOMSCAN. Additionally, a teaser video of the product is available here: <https://youtu.be/6HdgnEtpGtA>.

The team extends their deepest gratitude to Dr. Sara, Dr. Syifak, Ts. Dr. Ridha, and all their mentors for their guidance and support throughout this journey. Special thanks also go to teammates Shim, Izzat, and Exam for their dedication and hard work. While they had aimed for the Anugerah Khas and Utama, they remain undeterred and are determined to return stronger in future competitions. This accomplishment marks just the beginning for JOMSCAN and CyberSphere Solution's venture into the AR domain. The team is eager to continue pushing the boundaries of innovation.



Cybersphere Solution Reaches Top 16 Finalist in Sunway Launch X University Startup Accelerator Program

Date : 26/8/2024

Source : Cybersphere Solution

Cybersphere Solution, a budding startup, has made significant strides in the Sunway Launch X University Startup Accelerator Program, emerging as one of the top 16 finalists out of 116 competing startups. The program, renowned for fostering entrepreneurial growth, has provided a transformative experience for the team.

Over the course of the 5-month program, the team at Cybersphere Solution, led by technical founder Kamaleshwahrran Naidu, has undergone intensive training in entrepreneurship, pitching, and customer acquisition. This achievement was made possible through the dedication of co-founders Ik Shim and Mohd Izzat, who have been instrumental in the startup's success.

A crucial element of Cybersphere Solution's journey was the mentorship provided by Karen Lau, Chief Operating Officer at Sunway iLabs. Karen Lau's guidance from the outset was pivotal in securing the startup's position in the top 16. Additionally, company advisor Ms. Shanti Subramaniam, who has been supporting the team since their entrepreneurial journey began a year ago, played a significant role in their success.

Program coordinator Jia Qi Lee also played an essential role, believing in the potential of Cybersphere Solution's flagship product, DietMate—an innovative diabetes management tool. The team also found inspiration from interactions with Shawn Tham, Founder of UniLah, whose entrepreneurial journey serves as a model for aspiring founders.

"This journey has not just been about growth but also about building valuable connections and networking with some amazing people," said Kamaleshwahrran Naidu. "But remember, this is just the beginning. We are excited to continue developing DietMate and to share updates in the near future." Cybersphere Solution's achievement in the Sunway Launch X program marks a significant milestone in their journey, as they continue to innovate and strive for excellence in the startup ecosystem.



Faculty of Computing Celebrates Kamaleshwahrran Naidu's Achievement in Huawei Seeds for the Future 2024

Date: 22-28/9/2024
Source : Ts. Dr. Hoh Wei Siang

Our Faculty of Computing, Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) is proud to announce that one of our exceptional students, Kamaleshwahrran Naidu, has been selected as one of the TOP 8 finalists in the prestigious Huawei Seeds for the Future 2024 program, out of 114 candidates. This initiative, organized by Huawei in collaboration with Malaysia's Ministry of Higher Education (MOHE). This global initiative brings together talented students from 19 countries to foster innovation and technological advancement.

Kamaleshwahrran Naidu's success is a testament to his dedication and the quality of education we provide. His exceptional performance has now earned him a spot to represent Malaysia (Team Harimau) in the APAC Regional Semi-Finals, taking place in ShenZhen, China from September 22nd to 28th, 2024. Kamaleshwahrran will compete against participants from across the region, with only two teams advancing to the global finals.

We are immensely proud of Kamaleshwahrran Naidu. His accomplishments reflect the hard work of our students and the high standards of our program.



A Hands-On Workshop on Generative AI for Academics

Date : 12/8/2024

Source : Assoc Prof Ts Dr Suryanti Awang

The Faculty of Computing (FK) held an innovative workshop titled “Smart Writing for Malaysian Academicians: Generative AI in Data” at the Incubator, Level 5, attracting 100 participants. The event aimed to introduce FK staff and postgraduate students to the potential of generative AI in academic writing. As AI technology evolves, it is increasingly vital for academics to harness these tools, allowing them to enhance their research and writing processes.

Renowned speaker Ts. Dr. Mohd Azlishah Osman from UTeM opened the workshop with an introduction to generative AI, followed by a session on AI tools for data analysis. Participants engaged in hands-on activities, generating content from real data sets, which showcased the practical benefits of AI in streamlining writing. A panel discussion on the ethical considerations of AI in academia highlighted the importance of maintaining academic integrity and transparency in AI-generated content.

The workshop concluded with positive feedback from participants, who appreciated the skills and knowledge gained and expressed a desire for more advanced training sessions. The FK extends its gratitude to the speaker, participants, and organisers for their contributions to the event's success. As generative AI continues to advance, such workshops are crucial for equipping academics to utilise these technologies effectively and ethically.



Taiwan AI Academy - Advanced Technical Course on Large Language Models (LLM) : Train The Trainer Program For Malaysia

Date : 26/9/2024

Source : Ts. Dr. Nur Shazwani Kamarudin

This program targeted initiative aimed at equipping educators with essential skills for integrating artificial intelligence (AI) into their teaching curricula. By addressing the AI training gap, this program is specifically designed to meet the unique challenges lecturers face in teaching AI, providing them with the tools necessary to effectively deliver AI-related content. It facilitates the seamless incorporation of AI technologies into a wide array of educational frameworks, ultimately creating a supportive learning ecosystem that empowers students to acquire critical AI skills in an industry that is constantly evolving.

In addition to fostering a generation of future AI professionals in Selangor, the program works to overcome common barriers in AI education, such as high training costs, limited access to specialized training centers, and time and budget constraints. AI Nusantara aligns with established educational values, emphasizing responsible use of technology and adherence to high standards. Furthermore, the program aims to bolster Malaysia's competitiveness in the global AI and semiconductor sectors by building a workforce equipped with advanced AI skills.

Structured to provide a comprehensive educational experience, the program focuses on hands-on training in implementing Large Language Models (LLMs), with industry experts facilitating practical sessions. Conducted in collaboration with the Taiwan AI Academy (AIA), the training incorporates project-based learning using tools like Langchain. The program spans one month, commencing with a pre-assessment test, and includes key components: a 2-day AI conference at Academia Sinica in Taiwan, 4 days of in-person training, and online mentoring sessions held twice weekly throughout October. Upon completion, participants will present their projects and earn certifications, showcasing their proficiency in AI and readiness to apply these skills in educational contexts.



Aspirations Awakened: Students' Inspiring Achievements



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FK Student Aspirations
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Congratulations!

MUHAMMAD ALEEM
(FK POST GRADUATE STUDENT)
SV: TS. DR. NOORHUZAIMI@KARIMAH MOHD NOOR

for successfully received

**Full Sponsorship in
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Program (IIPP)**

at

**National Changhua University of
Education, Taiwan**
(Research Interns at Artificial Intelligence
Applications Center, Embedded System
Laboratory)

duration

3 months (Oct 2024 - Dec 2024)

Sincerely from
Faculty of Computing
UNIVERSITI MALAYSIA PAHANG AL-SULTAN ABDULLAH



Logos: MD, TEKNOLOGI UNTUK MASYARAKAT, STARS, WORLD UNIVERSITY AWARDS, THE, Technology



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LEARN. EXPLORE. UPSKILL

Congratulations!

JALAL UDDIN MD AKBAR
(FK POST GRADUATE STUDENT)
SV: TS. DR. SYAFIQ FAUZI BIN KAMARULZAMAN

for successfully received

**Full Sponsorship in
NSTC International Internship
Pilot Program (IIPP)**

at

**National Yang Ming Chiao Tung
University, Taiwan**
(Biomedical Imaging Physics and
Instrumentation Laboratory)

duration

3 months (Nov 2024 - Jan 2025)

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Faculty of Computing
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CONGRATULATIONS

8 PARTICIPANTS TO REPRESENT MALAYSIA AT #SFTF2024 IN CHINA



DAVID CHEW HONG LIANG
Multimedia University



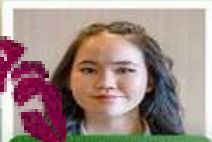
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A/L RAJESH KUMAR
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Empowering Excellence: Staff's Achievements

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TS. DR. NABILAH FILZAH MOHD. RADZUAN

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AWARENESS PATTERN AMONG
UNIVERSITY STUDENTS USING
CLASSIFICATION MODEL**

Value
RM 27,000

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On Being Granted
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**AN EFFECTIVE FORMULATION OF
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Voices of Experience

SUPPORTING QUALITY INTERNSHIPS: MY JOURNEY AS AN INDUSTRIAL TRAINING COORDINATOR

by Ts. Azlina Zainuddin



As the Industrial Training Coordinator for the Faculty of Computing, I encountered a range of challenges that truly tested my abilities in managing complex situations, communicating with a wide variety of stakeholders, and upholding our high standards for internship placements.

One of the most significant challenges was addressing instances where international students submitted questionable placement information. Some had obtained placements in unverified companies, while others had staged roles that didn't align with our standards. In response, I created a verification system that included ongoing communication with placement sites and extra checks to confirm the authenticity of both the placement and the work responsibilities. This approach allowed us to safeguard the credibility of our internship programme and ensured students gained real, meaningful industry experience,

A recurring issue was managing requests from students who wanted to complete their industrial training on campus. While on-campus placements were occasionally allowed under certain conditions, I always emphasised the value of off-campus internships, which provide essential industry exposure and networking opportunities. For those who stayed on campus, I ensured their placements involved clear learning goals and external oversight to guarantee a valuable experience.

Some students also expressed interest in internships in high-risk countries, which raised safety and security concerns. In these cases, I coordinated with the university administration and relevant authorities to conduct risk assessments. When necessary, I guided students toward safer placements or made sure they were fully informed and prepared if they chose to proceed. This experience enhanced my skills in risk management and underscored the importance of balancing students' ambitions with responsible guidance.

These experiences deepened my understanding of our students' diverse needs and helped me refine strategies that maintain high programme standards, supporting students in securing placements that contribute to both their personal and professional growth.

I am deeply grateful to the Faculty Management and the Industrial Training Committee for their unwavering support and guidance throughout my time as Industrial Training Coordinator. Their collaborative approach and readiness to assist, particularly when navigating challenging issues, have been invaluable and have greatly contributed to the successful completion of my responsibilities.

Faculty of Computing Chronicles : August-September 2024 Gallery















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- Hari Raya Donations For Asnaf Students (2025)
- Iftar Food Distribution (2025)



For more information:
017-7107343 (Kishern)

Unit Teknologi Komputer - Petakom UMPSA @petakom_umpsa



PERWAKILAN PETAKOM SESI 23/24



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2024
iCE-CInno
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INTERNATIONAL COMPETITION AND EXHIBITION ON COMPUTING INNOVATION 2024

"Fuelling the Digital Renaissance through Innovation"

27th - 28th November 2024



HYBRID

in-person (local/international participant)
online (international participant only)

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The **International Competition and Exhibition on Computing Innovation (iCE-CInno)** will return in **November 2024!** **iCE-CInno** is an international research competition organized by **Universiti Malaysia Pahang Al-Sultan Abdullah** which is mainly aimed for computer-based innovation. This year marks the 4th execution of **iCE-CInno** with the theme **"Fuelling the Digital Renaissance through Innovation"**, aiming to promote the spirit of inventiveness among participants from Malaysia and other countries. The exhibition reflects upon digital inventions having been the changes and disruption especially after the pandemic, with the convergence of academia, e-learning and industrial practices. **iCE-CInno** covers digital technologies that emphasize on Industry Revolution (IR4.0) technology and innovations.

IMPORTANT DATES

Registration and payment
due date: **1st Sept 2024**

**SCAN
to Register**



<https://shorturl.at/jz0Kb>

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(LOCAL) (INTERNATIONAL)

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Skills Training Centre	RM 350.00	USD 75.00
Undergraduate	RM 350.00	USD 75.00
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CONTACT US

iCE-CInno 2024 Secretariat

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The Unbreakable Spirit of Women by silent Queen

*Women, if you feel weak and lost,
Remember those who paid the cost
Maryam, pure, with courage untold,
Through slander, her faith stood bold.*

*Asiah, in a palace of gold,
Her heart with Allah, never cold.
She bore the pain, her spirit high,
For in paradise, her home would lie.*

*Sumayyah, the first to bleed,
For faith, she sacrificed her creed.
"Let this world take my breath," she said,
"For in paradise, I'll never be dead."*

*So, women, rise and shine,
In your heart, let faith entwine.
Though the world may never know your name,
In paradise, you will find your flame.*

*Be the adornment of purest grace,
A queen in faith, a royal face.
Through trials, wounds, and darkest night,
Stand strong, for heaven holds your light.*



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