

BIT@FK

BIL. 2, JUNE-JULY, 2024

**FACULTY OF
COMPUTING
FORGES NEW
INDUSTRY
ALLIANCES TO
BOLSTER CYBER
SECURITY
EDUCATION**



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- IMPLEMENTATION OF WORK-BASED LEARNING (WBL) WORKSHOP



COORDINATORS' NOTE



PATRON :

Associate Professor
Ts Dr. Adzhar Bin Kamaluddin

BULETTIN TEAM:

Ts. Dr. Rahmah Mokhtar
Ts. Dr Fauziah Zainuddin
Pn. Nurlinda Kadri
En. Ahmad Mustaqim
Mohamad Ghani
En. Muhammad Taufiq
Reffin

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ
السَّلَامُ عَلَیْكُمْ وَرَحْمَةُ اللّٰهِ وَبَرَكَاتُهُ

Dear Readers,
أَلْحَمْدُ لِلّٰهِ

We are pleased to present the second edition of the BIT@FK Bulletin for June-July 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

MoA/MoU Exchange Ceremony with Faculty of Computing Industry Partners

Date : 15/7/2024

Source: UMPSA

Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) recently strengthened its partnerships with 29 industry collaborators by signing new memorandums of agreement (MoA) and memorandums of understanding (MoU).

The event, held at Dewan Perdana, Grand Darul Makmur Hotel Kuantan, featured UMPSA Vice-Chancellor, Professor Dato' Ts. Dr. Yuserrie Zainuddin, who exchanged documents with industry partners. He also presented appointment letters for Adjunct Professors to several industry representatives, including Mr. Gunasegaran Krishnan, CEO of Trinovik Labs and an alumnus of UMPSA's Faculty of Computing.

UMPSA's Faculty of Computing signed a MoA with various industries to enhance the Work-Based Learning (WBL) program for its Bachelor of Computer Science (Cyber Security) with Honours.

This agreement will enable students to undergo WBL and industrial training for a year. The Faculty of Computing offers a 2U2I program with a 3U1I model (3 years at university, 1 year in the industry). Through the WBL program, students gain valuable knowledge and experience before entering the workforce. The MoA was signed with ASK-Pentest Sdn. Bhd., Adaptive Netpoleon Malaysia Sdn. Bhd., Gemas Lestari Sdn. Bhd., Definite Security Sdn. Bhd., Cybertronium Sdn. Bhd., Vulsan X Cydef Sdn. Bhd., and HeiTech Padu Berhad.



PETAKOM Awarded Prestigious PDTI Status

Date : 28/6/2024
Source : PETAKOM

Making major achievement for the Faculty of Computing at Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA), the Computer Technology Student Association (PETAKOM) has been awarded the prestigious Premier Digital Technology Institution (PDTI) status by the Malaysia Digital Economy Corporation (MDEC). This honour recognises PETAKOM's excellence in digital technology education and was announced during a Memorandum of Understanding (MoU) signing on 27 June 2024 in Kuala Lumpur.

The MoU between the Ministry of Higher Education (MOHE) and MDEC aims to develop the nation's digital talent and enhance graduate employability in digital technology and entrepreneurship. As part of this initiative, PETAKOM is now a PDTI Tech Club, giving students hands-on experience and access to the latest technology through partnerships with industry leaders like Amazon Web Services (AWS) and IBM SkillBuild. This programme is expected to benefit around 5,000 students in 2024.

In his speech, Minister of Higher Education, Datuk Seri Dr. Zambry Abd Kadir, stressed the importance of this collaboration in strengthening the nation's digital talent and boosting graduate employability. The MoU will also support digital entrepreneurship and provide students with opportunities to learn new technologies and earn income through digital platforms.

This recognition aligns with UMPSA's mission to support the digital economy and prepare graduates for the growing demands of the digital industry, highlighting PETAKOM's commitment to providing top-quality digital technology education.



Beyond Technology - PETAKOM Mobility Program to Indonesia

Date : 8-12/7/2024
Source : PETAKOM

In a major step towards global academic collaboration, 25 students and one staff member from the Faculty of Computing at Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) embarked on the "Beyond Technology: Mobility Programme to Indonesia." This programme was organised by the Computer Technology Student Association (PETAKOM) and took the participants on an educational journey to Universitas Multimedia Nusantara (UMN) in Indonesia.

The programme started virtually from 8 to 12 July 2024, introducing the participants to the Student Mobility Programme. The theme, "Empowering Tomorrow's Leaders: Student Mobility Programme Driving Sustainable Development Goals," set the stage for discussions on communication and sustainability. Students learned about the importance of effective communication in promoting sustainability and explored how technological innovations can contribute to achieving the Sustainable Development Goals (SDGs). They also examined the role of businesses and design in driving sustainable development.

The second week saw the students travel to Indonesia, with the first group arriving on 14 July and the second on 15 July. They engaged in a Student Sharing Session on Steganography, followed by a Welcoming Ceremony, a campus tour, and bonding activities with UMN students. The participants attended classes on Indonesian language and culture, enhancing their understanding of local customs and fostering cross-cultural communication. On 17 July, the students visited Bayah Village for an International CSR project.



They participated in workshops on disaster and risk management, gaining hands-on experience in community-driven sustainability efforts. The day concluded with a traditional Indonesian dinner, allowing the students to reflect on their experiences.

The following day included an entrepreneurship workshop and a cooking demo of the Indonesian dish Ayam Rica-rica. A workshop on sustainability communication highlighted strategies for promoting sustainability through media. The week also featured a recreational day at Ancol Jakarta and Dufan, providing a well-deserved break and an opportunity for bonding.

The final day included workshops on ethical hacking, robotics, big data, and mobile photography. The programme concluded with a farewell ceremony, celebrating the strong connections formed between the UMPSA and UMN communities.

This programme gave UMPSA students valuable experiences and practical skills. It showed the importance of international cooperation and sustainability. The students also learned about different cultures and made connections for their future.

UMPSA's Cyber X Team Wins Astro-NACSA Coding Challenge 2024 (ANCC2024)

30th July 2024 | Putrajaya International Convention Centre

Date : 30/7/2024
 Source : Cyber X Team

Heartfelt congratulations to the Cyber X Team from FK, UMPSA for their remarkable victory in the Astro-NACSA Coding Challenge 2024 (ANCC2024), organised by the National Cyber Security Agency (NACSA).

This prestigious award was presented by the Prime Minister of Malaysia, Dato' Seri Anwar Ibrahim, during the Cybersecurity Summit 2024, held on 30th July 2024 at the Putrajaya International Convention Centre.



Out of 251 entries, only FIVE elite teams emerged as leaders, with the FK, UMPSA Cyber X Team beating the following groups to claim the top spot:

- IjYYDS - Universiti Utara Malaysia
- Group Captain Pentagon - Peninsula College
- AllTheWay - Sunway College
- Meta Knight - Multimedia University

This competition is a testament to Astro and NACSA's unwavering commitment to promoting proactive cybersecurity measures. Together, we are paving the more secure digital future.



Cybersphere Solution at Tech in Asia Conference 2024

Date: 25/7/2024
 Source : Cybersphere Solution

Cybersphere Solution recently had the privilege of participating in the Tech in Asia Conference in Kuala Lumpur, made possible by the generous support of Sunway iLabs Foundry. This prestigious event, organised in collaboration with Tech in Asia, MYSTARTUP, and Cradle, brought together a dynamic blend of industry leaders, innovators, and investors.



The conference aimed to unite key figures in the tech sector to exchange insights, explore cutting-edge technologies, and forge valuable business connections. It also aspired to cultivate a vibrant tech community where startups and established companies collaborate to shape the future of technology and promote sustainable growth, while providing a stimulating platform for networking, learning, and meaningful partnerships through engaging panels, discussions, and interactive sessions.

We extend our sincere thanks to Sunway iLabs Foundry for their support, which enabled our participation. At the conference, we gained invaluable insights and engaged in fruitful discussions with Cradle regarding the CIP SPARK grant for our ongoing project. We eagerly look forward to the exciting opportunities that may arise from these interactions.

A special thank you to Tech in Asia, MYSTARTUP, and Cradle for organising such a transformative event!

FK Welcomes Academic Staff from Harbin Institute of Technology, China for Benchmarking Visit

Date : 23/5/2024 - 23/7/2024

Source : Ts. Dr. Junaida Sulaiman

FK recently welcomed a distinguished delegation of academic staff from the Harbin Institute of Technology (HIIT), China. The eight-member team participated in a four-week mobility programme from 23/4/2024 - 23/6/2024

This visit marked the second collaboration of its kind between FK and HIIT. The primary objective of the delegation was to conduct a thorough evaluation and gain an in-depth understanding of FK's core and specialised Computer Science curricula. Particular emphasis was placed on the teaching methodologies, instructional materials, and assessment practices employed by the faculty. The ultimate goal was to facilitate benchmarking, fostering an exchange of best practices that would enhance academic standards at both institutions.

The visiting staff were also able to watch the students' presentations, which provided them with valuable insights into both the students' progress and the effectiveness of the teaching methods

This strategic initiative successfully strengthened the academic partnership between FK and HIIT, promoting mutual growth and excellence in Computer Science education.



Implementation of Work-Based Learning (WBL) Workshop

Date : 22/7/2024

Source : Assoc. Prof. Ts. Dr. Mohd Faizal Ab Razak



Faculty of Computing, Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) has successfully organized a workshop on the Implementation of Work-Based Learning (WBL) and Industrial Training under the Cyber Security Program. This event, held in collaboration with various industry partners, took place from 20 to 22 July 2024 at Erya By Suria Cherating, Cherating, Kuantan.

The workshop aimed to ensure that the academic programs at the Faculty of Computing meet the WBL requirements stipulated by the Malaysian Board of Technologists (MBOT) and to enhance the quality of academic offerings at UMPSA. The sessions were led by YBhg. Associate Professor Ts. Dr. Adzhar Bin Kamaludin, Dean of the Faculty of Computing.

Eight lecturers, including key academic program developers from the faculty, participated in the workshop. During the sessions, several suggestions and improvements were identified to enhance the quality of the modules and the supervision provided during the WBL sessions.

The implementation of WBL at the Faculty of Computing is expected to have a significant positive impact, equipping graduates with the essential skills and confidence needed to excel in the workforce.



Aspirations Awakened: Students' Inspiring Achievements



Faculty of Computing
Fakulti Komputeran

FK Student Aspirations
LEARN. EXPLORE. UPSKILL

Congratulations!

IK SHIM A/P EH FHOT
BACHELOR OF COMPUTER SCIENCE
(CYBER SECURITY)

for successfully received

ISC2 Certified in Cybersecurity (CC) Certification

CC Certified in Cybersecurity
ISC2 Certification

Sincerely from
Dean and Members of the Faculty of Computing
UNIVERSITI MALAYSIA PAHANG AL-SULTAN ABDULLAH



Faculty of Computing
Fakulti Komputeran

FK Student Aspirations
LEARN. EXPLORE. UPSKILL

Congratulations!

TUSHARAN A/L SARAVANNAN
BACHELOR OF COMPUTER SCIENCE
(COMPUTER SYSTEMS & NETWORKING) WITH HONOURS

for scoring

GOLD CERTIFICATE
in

 **Networking Academy**

APJC NetAcad Riders Competition 2024
(also representing Malaysia into APJC NetAcad Riders Final Round)

Sincerely from
Dean and Members of the Faculty of Computing
UNIVERSITI MALAYSIA PAHANG AL-SULTAN ABDULLAH





Faculty of Computing
Fakulti Komputeran

Congratulations!

SARAVANANKUMARAN A/L BALACHANDRAN
BACHELOR OF COMPUTER SCIENCE
(COMPUTER SYSTEMS & NETWORKING) WITH HONOURS

for scoring
GOLD CERTIFICATE
in

 **APJC NetAcad Riders Competition 2024**

Sincerely from
Dean and Members of the Faculty of Computing
UNIVERSITI MALAYSIA PAHANG AL-SULTAN ABDULLAH

FK Student Aspirations
LEARN. EXPLORE. UPSKILL



MD | @komputingmpsa | UMP5AMalaysia | TEKNOLOGI UNTUK MASYARAKAT | STARS | WORLD UNIVERSITY RANKING | THE | U |



Faculty of Computing
Fakulti Komputeran

Congratulations!

KAMALESHWAHRRAN NAIDU
BACHELOR OF COMPUTER SCIENCE
(CYBER SECURITY)

for receiving
IKON INOVASI AWARD
in

MALAM ANUGERAH MERCU SANJUNG UMP5A 2023

Sincerely from
Dean and Members of the Faculty of Computing
UNIVERSITI MALAYSIA PAHANG AL-SULTAN ABDULLAH

FK Student Aspirations
LEARN. EXPLORE. UPSKILL



MD | @komputingmpsa | UMP5AMalaysia | TEKNOLOGI UNTUK MASYARAKAT | STARS | WORLD UNIVERSITY RANKING | THE | U |



Faculty of Computing
Fakulti Komputeran

Congratulations

TS. DR. ZURIANI MUSTAFFA

On Being Granted

FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)

AN ENHANCED EVOLUTIONARY MATING ALGORITHM-FEED FORWARD NEURAL NETWORK BASED ON CAUCHY MUTATION STRATEGY FOR TIME SERIES PREDICTION

From
DEAN
AND ALL FACULTY OF COMPUTING MEMBERS
Universiti Malaysia Pahang Al-Sultan Abdullah

VALUE
RM 121,800.00

MDEC Premier Digital Tech Institution

TEKNOLOGI UNTUK MASYARAKAT

STARS

WORLD LEADING INNOVATION

UI



Faculty of Computing
Fakulti Komputeran

Congratulations

DR. AL-FAHIM MUBARAK ALI

On Being Granted

FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)

A NEW ARTIFICIAL NEURAL NETWORK-BASED CLASSIFIER FOR GENERIC CODE CLONE DETECTION MODEL IN IMPROVING TYPE-3 AND TYPE-4 CLONE PRECISION.

From
DEAN
AND ALL FACULTY OF COMPUTING MEMBERS
Universiti Malaysia Pahang Al-Sultan Abdullah

VALUE
RM 117,700.00

MDEC Premier Digital Tech Institution

TEKNOLOGI UNTUK MASYARAKAT

STARS

WORLD LEADING INNOVATION

UI



Faculty of Computing
Fakulti Komputeran

Congratulations

DR. NOORLIN MOHD ALI

On Being Granted

FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)

THE FORMULATION OF DEEP LEARNING NEURAL NETWORK PIPELINE THROUGH FINE-TUNED PREDICTION MODEL FOR DYNAMIC SNAKE ANTIVENOM SUPPLY ESTIMATION IN MALAYSIA HEALTHCARE FACILITIES.

From DEAN AND ALL FACULTY OF COMPUTING MEMBERS
Universiti Malaysia Pahang Al-Sultan Abdullah

VALUE
RM116,300.00

MDEC TEKNOLOGI DIGITAL BASTARAKAT STARS Ui



Faculty of Computing
Fakulti Komputeran

Congratulations

DR. NUR SHAZWANI KAMARUDIN

On Being Granted

FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)

A NEW MODEL OF ENSEMBLE DEEP LEARNING ALGORITHMS THROUGH EFFECT OF SOCIAL NETWORK SIZE AND CAUSAL INFERENCE FOCUSING ON MENTAL HEALTH PREDICTION USING SOCIAL MEDIA DATA

From DEAN AND ALL FACULTY OF COMPUTING MEMBERS
Universiti Malaysia Pahang Al-Sultan Abdullah

VALUE
RM115,100.00

MDEC TEKNOLOGI DIGITAL BASTARAKAT STARS Ui



Faculty of Computing
Fakulti Komputeran

Congratulations

DR. ZAFRIL RIZAL MAZMI

On Being Granted

FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)

A NEW DEADLINE AWARE CONTAINER SCHEDULING ALGORITHM WITH IMPROVED MULTI OBJECTIVE OPTIMIZER FOR EFFICIENT QOS IN CLOUD MICROSERVICES-RESOURCES ALLOCATION

From DEAN AND ALL FACULTY OF COMPUTING MEMBERS
Universiti Malaysia Pahang Al-Sultan Abdullah

VALUE
RM 69,200.00

MDEC TEKNOLOGI DIGITAL BASTARAKAT STARS Ui

Voices of Experience

THE GRANTS AND I

by Associate Professor Ts. Dr. Noraziah Ahmad

Assalamualaikum,

Reflecting on my academic journey, I'm grateful for the opportunities to secure various research grants, including the FRGS, the Best FRGS Award, the ERGS, and a special FRGS for the MyGRANTS portal. These experiences have been crucial in advancing my research and career. By sharing this, I hope to inspire others to pursue their research goals with dedication and persistence.

My First Experience: FRGS Grant

My journey began with the Fundamental Research Grant Scheme (FRGS) from the Ministry of Higher Education (MOHE). Initially, my application was rejected, but after a grant writing workshop by Prof. Dr. Mohamad Othman, I resubmitted with updated references. This success allowed me to appoint a Graduate Research Assistant who later completed a master's degree. This marked the start of my research funding journey.

Best FRGS Award

Encouraged to apply for the Best FRGS Award, I presented a new proposal that improved on previous work with advancements in AI and load balancing. Despite rigorous evaluations, I won the award, distinguishing my project among over 100 submissions in the ICT cluster. Another student graduated from this grant, demonstrating its impact.

Next Grant: ERGS

I then applied for the Exploratory Research Grant Scheme (ERGS), extending my PhD research into Cloud Computing. This successful grant allowed for exploratory research and led to another PhD graduation. ERGS enabled me to explore innovative approaches and contribute valuable insights.

Special FRGS: MyGRANTS

A notable project was a special FRGS led by Assoc. Prof. Dr. Wan Maseri Wan Mohd and later Assoc. Prof. Dr. Mohamed Ariff Ameen. With a RM 3.3 million budget, this project involved multiple teams and focused on database systems, proposing a hybrid model with data mining. It contributed to developing the MyGRANTS portal and supported another PhD graduation.

Grant Evaluation Experience

My successful grant applications led to my appointment as a grant evaluator for various panels, including IPT and Saudi Arabia. These experiences have broadened my perspective and enhanced my ability to secure and manage research grants.

Current Work: MTUN Grant

This year, I applied for the Malaysian Technical University Network (MTUN) grant as a sub-project leader. Collaborating with MTUN universities, we submitted our proposal in July 2024. This represents a new milestone in my career, showcasing my ability to lead in a collaborative research environment.

Thank you for reading my reflections.

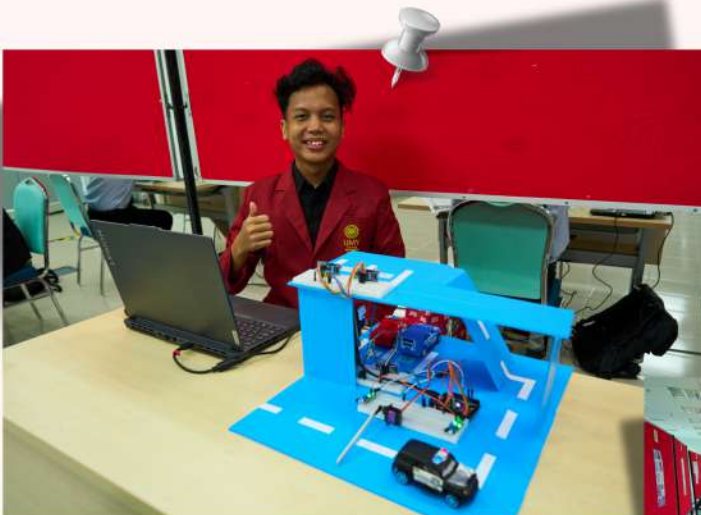
Wassalam...



Faculty of Computing Chronicles: Jun-July 2024 Gallery

















Faculty of Computing
Fakulti Komputeran



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)

CALL FOR PARTICIPANTS

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>

CATEGORIES & FEES

	(LOCAL)	(INTERNATIONAL)
Primary school	RM 250.00	USD 55.00
Secondary school	RM 300.00	USD 65.00
Skills Training Centre	RM 350.00	USD 75.00
Undergraduate	RM 350.00	USD 75.00
Postgraduate	RM 350.00	USD 75.00
Open category	RM 400.00	USD 85.00



<https://fb.me/icecinno>

CONTACT US



iCE-CInno 2024 Secretariat
Faculty of Computing,
Universiti Malaysia Pahang Al-Sultan Abdullah
26600 Pekan, Pahang, **MALAYSIA**

+609 431 5576/5011 icecinno@umpsa.edu.my
<https://icecinno.umpsa.edu.my>

The End We Share

by
From the River to the Sea
ubie79

**In this world, we walk with pride,
Our names etched high, our dreams untied,
We chase the stars, the distant gleam,
In wealth and health, we find our theme.**

**But pause, my friend, and heed this truth,
Beneath the sun, from age to youth,
No gold can shield, no crown can save,
From that quiet call, that final wave.**

**The riches gathered, the power held,
In that dark hour, no more excelled,
For dust we were, and dust we'll be,
No wealth nor fame can set us free.**

**The castles built, the kingdoms grand,
Will crumble down, return to sand,
The health we boast, the strength we claim,
Fades to shadows, just the same.**

**So who are we, in this grand race?
Just fleeting breath, in time and space,
No throne, no throne, can stay the hand,
Of fate's decree, of life's last stand.**

**Remember well, this truth profound,
That in the earth, we're all unbound,
In death, we meet, no more apart,
The same cold soil, the same still heart.**

**So live your life, with humble grace,
For in the end, we share one place,
No crown of gold, no banner bright,
Just endless night, just endless night.**

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