Volume 01 / Issue 02



April-June 2024

School of Electrical Engineering College of Engineering, UiTM Shah Alam

IN THE SPOTLIGHT

Collaborative Meeting with Universitas Sumatera Utara, Indonesia

18 April 2024

The collaborative meeting between School Electrical Engineering, College of of Universiti Teknologi MARA Engineering, (UiTM) and Faculty of Engineering, Universitas Sumatera Utara (USU) aims to enhance international recognition for both institutions, fostering cultural understanding and academic growth. Among the discussion, a dual degree program for master's courses takes center stage, promising expanded opportunities for students' academic pursuits.





Mastering ChatGPT Prompt for Research and Publication

7 May 2024

UiTM's Advanced Signal Processing & Green Material Microwave Absorber RIGs held a "Mastering ChatGPT Prompts for Research & Publication" workshop. The workshop, attended by 30 KPK graduate students and supervisors, explored how ChatGPT can enhance research by fostering creative thinking, streamlining writing, and accelerating the research process. The workshop presenter, Prof. Ir. Ts. Dr. Mohd Nasir bin Taib, encouraged participants to integrate this Al technology into their future research endeavors.

IN THE SPOTLIGHT



UITM Students Clinch Bronze AWARD at APJC NetAcad Riders Competition 2024!

30 April 2024

We are thrilled to extend our heartfelt congratulations to Ahmad Amir Muhsin and Saifaris Azizi, two talented students from UITM, for their remarkable achievement in securing the Bronze Award at the prestigious APJC NetAcad Riders Competition 2024 (Round I). A short and sweet celebration took place at the Cisco Lab, PKE, College of Engineering, where winning certificates were presented to Ahmad Amir Muhsin and Saifaris Azizi, honoring their outstanding performance.

Forum: Career with Phison 10 May 2024

The Electronics Discipline hosted a career forum titled "Careers with Phison," featuring Phison, a leading NAND Flash innovator, and Maistorage, a new IC Design startup. Mr. Azlan Jizam (Phison representative) discussed career opportunities for Electrical and Electronics Engineering graduates seeking positions in IC Design. This session aimed to connect students with potential career paths at Phison and Maistorage.



IN THE SPOTLIGHT



School of Electrical Engineering Shines in #mypdti TikTok Competition!

26 June 2024

The School of Electrical Engineering (PKE) is brimming with pride as its representatives have garnered remarkable achievements, winning third place in the #mypdti TikTok Competition! Congratulations to all our winners!

- IC Didik Club
 - Mohd Fakhrulnizam Bin Loidi
 - Iddah Madihah Binti Roszaimi
 - Nur Aneesa Batrisyia Binti Zulkiply
 - Yasmin Binti Rosmawi
- Muhammad Afiq Syarif Bin Mohd Noor (Leader)
 - Shah Izzati Afzan Binti Irwan Shah

Prize: RM1000

Awarded by: MD Premier Digital Tech Institution

This achievement is a true testament to the dedication, creativity, and innovative spirit that thrives within the School of Electrical Engineering. We extend our heartfelt congratulations to all the winners and express our sincere gratitude to everyone who supported them on this journey.

INTERNATIONAL

Electronics and IoT: Bridging Borders with Innovation

The 'Kickstart Electronics and IoT' program was successfully held on June 7 and 14, 2024. Organized by IC DIDIK CLUB in collaboration with the Institute of Business Excellence (IBE) under the British Council Student Mobility Grant, this event aimed to strengthen the MoU between UiTM and the University of Suffolk.

Day I, aligned with the International Engineering Student Mega Carnival (ESMeC), featured hands-on electronics and IoT sessions with 5 University of Suffolk students, 23 IC DiDiK Club members, and 2 lecturers. Participants explored electronics engineering fundamentals through interactive activities led by Aiszzy Electronics Sdn Bhd.

Day 2 included a visit to Daehan Rehabilitation Hospital Putrajaya, focusing on robotics and engineering in healthcare, particularly for neurological disorders. The day concluded with a cultural visit to Masjid Putra, enhancing international collaboration and cultural appreciation. This initiative broadened students' understanding and inspired innovative thinking.





BENCHMARKING











UPM

Benchmarking Visit to the Department of Electrical and Electronics Engineering, Faculty of Engineering, Universiti Putra Malaysia was held on 16 April 2024. This visit was conducted to obtain exposure to the new high voltage equipment used at UPM in teaching and learning as well as to obtain detailed information and see the suitability of the high voltage equipment used at UPM for the purpose of replacing existing equipment in the laboratory at the School of Electrical Engineering (PKE).

BENCHMARKING







UniMAP

On May 28, 2024, three lecturers from the Faculty of Electrical Engineering & Technology from Universiti Malaysia Perlis (UniMAP) visited the School of Electrical Engineering (PKE) in UiTM Shah Alam for a benchmarking program. The purpose of this visit was to benchmark the Bachelor of Electrical Engineering with Honours program offered by PKE. The program activities included academic discussions on the curriculum and a tour of the teaching and learning laboratories.

INDUSTRIAL INSIGHTS



MDEC and MOHE Sign Landmark MoU to Launch PDTI Tech Club Initiative

On Thursday, June 27, 2024, from 2:00 PM to 4:00 PM, the Nexus Ballroom 3 in Bangsar South, Kuala Lumpur, was abuzz with excitement as the Malaysia Digital Economy Corporation (MDEC) and the Ministry of Higher Education (MOHE) came together for the signing of a landmark Memorandum of Understanding (MoU). This significant event marked the launch of the PDTI Tech Club initiative, represented by 16 club presidents.

The event saw the distinguished presence of , Tuan Gobind Singh Deo, Minister of Digital, Dato' Seri Diraja Dr. Zambry Abd Kadir, Minister of Higher Education and Tuan Syed Ibrahim Syed Noh, Chairman of MDEC

A highlight of the event was the recognition of the IC Didik Club, under the College of Engineering, as one of the PDTI Tech Clubs. Mohd Fakhrulnizam Loidi, President of the IC Didik Club, proudly received the recognition on behalf of the club. This acknowledgment underscores the club's dedication to fostering innovation and digital skills among its members.

The launch of the PDTI Tech Club initiative signifies a pivotal moment for Malaysia's digital landscape, fostering an environment where young talents can thrive and contribute to the nation's digital economy. The presence of 16 club presidents at the event highlighted the enthusiasm and readiness of the next generation to take on the challenges and opportunities in the digital sector.

INDUSTRIAL INSIGHTS





Meeting with the Industry Advisory Panel for Programs CEEE222, CEEE223, and CEEE260 in Electrical Engineering Studies for 2024

Meeting with industry advisory panels discussing the implementation and delivery of the curriculum for programs CEEE222, CEEE223, and CEEE260. This feedback will be used to improve the quality of teaching and learning for these programs.

Objectives of the program:

- Assess improvements made based on previous panel comments.
- Obtain feedback from the industry advisory panel on curriculum implementation and delivery.
- Review course content and its relevance to industry needs.
- Meet EAC and ETAC accreditation requirements.

Agenda: Morning:

- Meeting with all IAP members and the Electrical Engineering Academic Committee.
- Discussions on Project Management, FYP, IDP, and Engineering Drawing courses.

Afternoon:

- 5MFYP Program (Electrical CEEE223 & Electronics CEEE222): FYP students present their projects in 5 minutes, judged by the IAP panel. The top three winners from each program receive cash prizes sponsored by the IEEE Education Society, Malaysia.
- Experience sharing session by the IAP panel for all Bachelor of Electrical and Electronics Engineering Technology with Honours (CEEE260) students.

INDUSTRIAL INSIGHTS



SEMICON South East Asia's Coffee Truck Tour

On May 13, 2024, the Coffee Truck Tour visited KPK to promote SEMICON South East Asia 2024, held from May 28-30 at MITEC, Kuala Lumpur. The tour, themed "Boosting Agility and Resiliency of the Global Electronics Supply Chain," aimed to raise awareness about the semiconductor industry among KPK students at UiTM Shah Alam.

SEMICON South East Asia 2024 features top semiconductor industries from China, Europe, Malaysia, the Netherlands, Korea, Singapore, Taiwan, and Southeast Asia. PKE, KPK UiTM, in collaboration with MDEC under Premier Digital Tech Institutions (PDTI), was honored to be part of the tour.

Special thanks to the volunteers from Kelab IC Didik: Mohd Fakhrulnizam bin Loidi, Muhammad Luqman bin Mohd Ariff, Muhammad Arif Fahmi bin Suhaimi, Muhammad Burhanuddin bin Hasminderputra



Visit to SEMICON Southeast Asia 2024

The School of Electrical Engineering, UiTM, attended SEMICON Southeast Asia 2024 at MITEC, Kuala Lumpur, invited by MDEC. Members of IC DiDiK Club explored the latest advancements in the semiconductor industry from May 28-30. The event connected industry leaders, showcased cutting-edge products, and highlighted market and technology trends.

In the TalentCONNECT session, students learned about top electronics manufacturers and R&D capabilities in SEA. Experts discussed semiconductor market trends, innovations, and talent development. The Career Talk session provided insights into the global working cultures of semiconductor companies, offering valuable industry perspectives.

SULAM



ElectroQuest: Journey into Electronics (Program SULAM)

On May 20, 2024, the School of Electrical Engineering students (CEEE222S7A and CEEE222C7A), led by 21 committee members and supervised by Ir. Dr. Maizatul Zolkapli, conducted the ElectroQuest: Journey into Electronics program at Sekolah Kebangsaan Seksyen 7. The program aimed to teach fundamental electronic concepts to special needs students (PPKI) through interactive STEM games and simple electronic projects. It involved hands-on activities like Magnet Controlled Glow Fan, Musi Maze, and more, engaging 24 special needs students with personalized guidance.

ElectroQuest successfully sparked interest in STEM subjects, enhancing the students' focus and engagement. The program provided practical learning experiences, fostering critical thinking and problem-solving skills while promoting inclusivity. For UiTM students, it offered real-world application of their knowledge and development of teaching skills.







THE PURSUIT OF EXCELLENCE

The Excellence in Engineering Learnings (ExcEL) Program for Electrical Engineering students was organized by Sekretariat Mahasiswa Kolej Pengajian Kejuruteraan – Pengajian Kejuruteraan Elektrik (SMKPKE) to reduce failures in Analog Electronics I and Analogue Electronics (ELE424 and ELE422). It involves current CEEE222 and CEEE223 students, with facilitators who scored A+ and A, from Semester 2 and higher. The program includes online and face-to-face sessions.





The first session (Session I) was conducted online on 22nd June 2024 for three hours through Webex platform. Students were divided into 5 groups in breakout sessions. Each group was conducted by a facilitator. For this session, the program lasts for three hours. The facilitator guides the mentee students by focusing on two main chapters on how to answer exam questions based on questions from past final year papers. Session 2 of the program was implemented faceto-face on 28th June 2024, taking place in five lecture rooms at level 13, Block 5, College of Engineering. Session 2 program covered another three chapters throughout the entire course syllabus. Prior to the day, students were required to answer the given questions. The answers were then discussed with the facilitator to enhance the student's understanding in solving the analysis and theoretical based questions.



CELEBRATING SUCCESS



Academic Excellence Awards Ceremony

The Academic Excellence Awards Ceremony for the School of Electrical Engineering (MAKA PKE) for the Oct 2023-Feb 2024 session was held on June 7, 2024, to recognize the achievements of the students. This semester, 200 students achieved a GPA of 3.5 and above, with 7 students receiving the Anugerah Tokoh Pelajar for their highest GPA and involvement in extracurricular activities at UiTM.

The awardees are:

- I.Imanina Filza Binti Ibrahim Semester 7
- 2. Nurul Ain Binti Md Yusri Semester 6
- 3. Siti Nurlaila Nadira Binti Mohd Pakhri Semester 6
- 4. Muhammad Luqman Hakim Bin Mowardi Semester 3
- 5. Muhammad Nur Syafaat Bin Mohammad Molyani Semester 7
- 6. Muhammad Uzair Muizz Bin Sallehuddin Semester 7
- 7. Shah Izzati Afzan Bin Irwan Shah Semester 6

Congratulations to all the students for their academic excellence last semester!

ACHIEVEMENTS



Anugerah Jaringan Antarabangsa Berimpak

Congratulations Dr Noorfadzli Abdul Razak and research members for winning the first place of Anugerah Jaringan Antarabangsa Berimpak for the project title "On Autonomous Mobile Robot (AMR) Development Collaboration DAIKIN and KPK."

Knowledge Transfer Program (KTP) Research Grant

Congratulations Ts. Dr. Siti Lailatul Mohd Hassan and research members for securing Knowledge Transfer Program (KTP) research grant worth RM80,546.40 from PHN Industry Sdn Bhd (Member of DRB-HICOM) for the project title PROJECT FWAS (PHASE I AND PHASE 2)





Gold Medal at INNOFEST '24

Representatives from the Integrated Microelectronic Systems and Applications (IMSaA) secured a gold medal and first place in the Agrotechnology category. Their prize included RM500 in cash, a certificate, and a winner's medal. Congratulations to Dr. Rafidah Rosman (Lead Researcher) from the School of Electrical Engineering (PKE) and her team members, Ir. Dr. Maizan Muhamad, Ir Ts. Dr. Hanim Hussin, Ir Ts Anees Abdul Aziz, and Tuan Norjihan Tuan Yaakub, for their outstanding innovation achievement.

ACHIEVEMENTS



STEM Education Grant

Congratulations to Ts. Dr. Arni Munira Markom and team for their outstanding success in securing the STEM Education project!



University Community Social Enterprise (UCSE) Grant

Congratulations to Dr. Raudah Abu Bakar and Associate Professor Ir Ts Dr. Suzi Seroja Sarnin for successfully securing the University Community Social Enterprise (UCSE) grant from the Ministry of Higher Education, amounting to RM40,000!

ACHIEVEMENTS



Prestigious Dato' Title

Congratulations to YBhg. Prof. Dato' Ir. Dr. Norlida Buniyamin on being conferred the Darjah Dato' Paduka Mahkota Terengganu (D.P.M.T) Yang Amat Dihormati.



Launching of Techkara Engineering Sdn Bhd

Heartfelt congratulations to Ts. Dr. Ezmin Binti Abdullah on the establishment of the Micro Industry Hub (MIH).

UiTM Wins UK-Malaysia Education Partnership of the Year!

UiTM has been named the winner of the UK-Malaysia Education Institutional Partnership of the Year award in collaboration with Cardiff Metropolitan University, United Kingdom, at this year's Business Excellence Awards. This accolade, led by Assoc. Prof. Ir. Dr. Rozita Jailani representing UiTM, is part of the prestigious Business Excellence Awards hosted by the British Malaysia Chamber of Commerce. The UK-Malaysia Educational Institutional Partnership Award 2024 recognizes a UK higher or further education institution that has partnered with a Malaysian organization to deliver significant impact, exceptional results, and value creation to the Malaysian education sector. This award highlights the seamless integration of UK and Malaysian expertise. UiTM and Cardiff Metropolitan University were selected for their collaborative efforts, which led to reputational enhancement and significant contributions through successful grant applications and innovative initiatives.

STAFF PROMOTION 5 APR 2024 21 JUNE 2024





Heartfelt congratulations to Prof. Ir. Ts. Dr Juliana Johari, Prof. Ir. Dr. Ahmad Sabirin Zoolfakar and Prof. Ir. Dr. Nur Emileen Abdul Rashid on your promotion to VK7.



COLLABORATIVE TEACHING







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COLLABORATIVE TEACHING





On Friday, 28 June 2024, a Collaborative Teaching session with two speakers from Group Technical Solutions, Project Delivery and Technology, PETRONAS, Malaysia, Rasidi Bin Mohamed (CEng-MIET) and M Kamil Bin M Arshad (CEng-MIET) was held in the AI -Hidayah Seminar Room, Level 9, Tower 2, KPK.



The one hour and a half sharing session regarding the application of PID Control in Oil and Gas Industries with the two speakers was attended by students from ESE652 Process Control course for B. Eng. Electronics program, EEE513 Instrumentation and Control course for B. Eng. Tech. Electrical and Electronics program and MEK630 Control Systems 2 course for B. Eng. Tech. Mechatronics program.





This seminar was co-organised and sponsored by IEEE Control Systems Society (CSS), Malaysia Chapter.



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