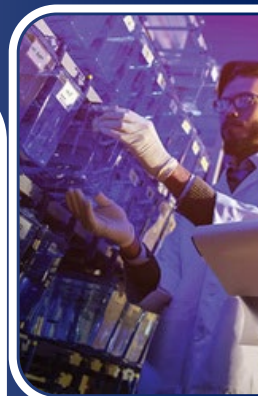


1st EDITION UiTM GLOBAL PENANG Newsletter

GLOBAL INSIGHTS: NAVIGATING UNIVERSALITY WITH UiTM PULAU PINANG



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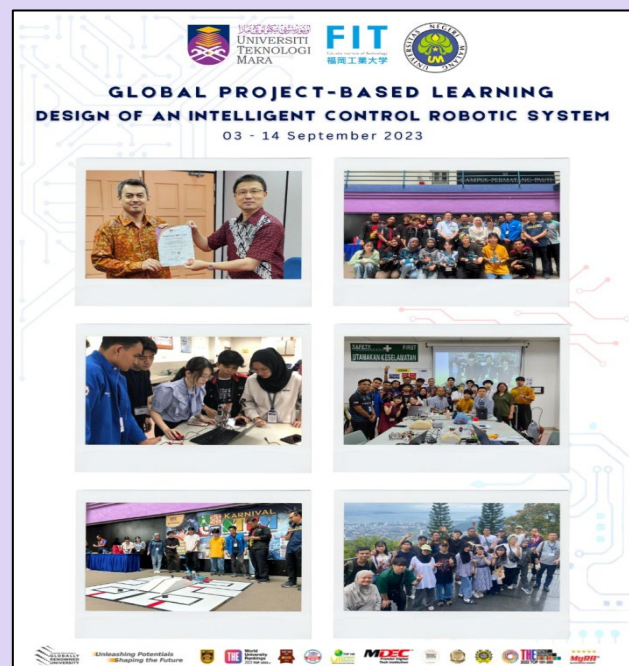
UiTM Global @ Office of International Affairs,
Academic Affairs Division,
Universiti Teknologi MARA, Pulau Pinang Branch,
Pulau Pinang,
Malaysia.

The First International Mobility Program: Global Project-Based Learning on Design of An Intelligent Control Robotic System

***Nor Azlan Othman, Nor Salwa Damanhuri, Rozan Boudville, and Belinda Chong Chiew Meng**

The first international mobility programme, “Global Project Based Learning (gPBL) on Design of an intelligent control robotic system” was held at Universiti Teknologi MARA (UiTM) Pulau Pinang Branch, Malaysia from 3 to 14 September 2023. This programme is the result of a Memorandum of Understanding (MoU) that was signed by UiTM and **Fukuoka Institute of Technology (FIT)**, Japan on the 27 March 2023.

This gPBL programme was inspired by the inaugural event that our students took part in from August 18–27, 2022, at **King Mongkut Institute of Technology in Thailand (KMITL)**. Delegations from Thailand (King Mongkut Institute of Technology), Malaysia (Universiti Teknologi Mara, UiTM Pulau Pinang Branch), and Japan (Fukuoka Institute of Technology) attended this gPBL event, which was co-hosted by **KMITL** and **FIT**. Throughout their time at **KMITL**, our students picked up a lot of knowledge and gained useful experience.



The first Global Program-Based Learning (gPBL) conducted at Universiti Teknologi Mara (UiTM) Pulau Pinang Branch, Malaysia in collaboration with **Fukuoka Institute of Technology (KMITL)**, Japan and **Universitas Negeri Malang (UNM)**, Indonesia

In general, this gPBL is primarily derived from the International Engineering Practicum, which the FIT School of Engineering has established since 2021 as a common subject primarily for third-year undergraduate students. Students who participate in training programmes such as Global Project-Based Learning (gPBL) conducted jointly with partner universities overseas and who complete the program will receive credit for their work.



Following a lengthy discussion with **FIT** Top Management and UiTM committee members (engineered by Electrical Engineering Studies, Faculty of Hotel and Tourism Management and UiTM Global, UiTM CPP), UiTM CPP are officially organizing our first gPBL programme supported by **FIT, Japan** and **UNM, Indonesia**. This gPBL 2023 focuses on three missions which are teleoperation of pneumatic robotics at **FIT**, Robovie-Nano (balanced and walking robot) and Mobile robot (pick and place). These three missions were facilitated by lecturers from **FIT** and UiTM CPP. In addition, a robot competition took place in Laman Perdana, Universiti Teknologi MARA (UiTM) Pulau Pinang Branch on 13 September 2023. This event coincided with a STEM education event hosted by the university. About 400 local students from elementary, junior high, and high school students attended.



Participants conducting their tasks in the lab with the instructor and facilitator

This first global project-based learning (gPBL) programme aims to expand perspectives and foster collaboration across diverse disciplines. More importantly, it gives our students the opportunity to gain educational, linguistic, and cultural advantages from the experience of studying with or in collaboration with other nations. Additionally, this gPBL international mobility programme provides the ideal setting for staff and students to continue their education on a global scale. Through engaging in a variety of projects, all parties involved will have the opportunity to learn new information and develop new ideas.

The organisers of this gPBL 2023 deserve special recognition for the effort and commitment they put in to make this gPBL2023 a success. The team consists of the Electrical Engineering Studies (Assoc. Prof. Ir. Dr. Nor Azlan Othman, Assoc. Prof. Ir. Dr. Nor Salwa Damanhuri, Dr. Rozan Boudville, Dr. Belinda Chong Chiew Meng and Ts. Dr. Adi Izhar Che Ani), Faculty of Hotel and Tourism Management (Dr. Anderson Ngelambong and Mrs Johanna Adlin Ahmad) and UiTM Global (Dr. Nor Khadijah Mohd Azhari). More succinctly, the success of this gPBL2023 would not have been possible without the support from the UiTM CPP top management. This programme also would not be successful without the collaborative effort from **FIT** and **UNM**.



Participants with their robot during the competition on the final day of the programme

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