

Buletin FKA

PENGAJIAN KEJURUTERAAN AWAM

UNIVERSITI TEKNOLOGI MARA CAWANGAN PULAU PINANG

EDISI 2022



UNIVERSITI
TEKNOLOGI
MARA

Cawangan Pulau Pinang
Kampus Permatang Pauh

eISSN 2716-6325



9 772716 632004

Diterbitkan pada 15 Oktober 2023

Have Fun Through Virtual Penang Smart City Camp 2022 (P-SMACC)

By: Assoc. Prof. Dr. Noorsuhada Md Nor (Civil Engineering Studies), Assoc.

Prof. Dr. Abdul Hadi (Chemical Engineering Studies) and Ts. Dr. Adi Izhar Che Ani (Electrical Engineering Studies)

11th - 21st October, 2022: Universiti Teknologi MARA (UiTM), Penang Branch, was commissioned to host a programme involving national and international students as part of the Virtual Penang Smart City Camp 2022 (P-SMACC) programme held in October 2022. The programme was organised by Academic Affairs, UiTM Penang Branch, in collaboration with the Civil, Mechanical, Chemical and Electrical Engineering Studies of UiTM Penang Branch. National and international co-hosts of this programme were Malaysia Board of Technology (MBOT), Universiti Kebangsaan Malaysia (UKM), Universitas Negeri Malang (Indonesia), Universitas Gadjah MADA (Indonesia), Abubakar Tafawa Balewa University, (Bauchi, Nigeria) and others. The aim was to harness the combined efforts of multidisciplinary engineering students from different countries to develop sustainable and practical solutions to the chosen issues.

The programme was led by Assoc. Prof. Dr. Abdul Hadi from the Chemical Engineering programme, UiTM Penang Branch, and supported by secretariats from other engineering disciplines. The beauty of this programme, which was the first edition of P-SMACC, was the challenges posed to young engineers by the key themes of the United Nations Sustainable Development Goals 2030 (SDG 2030). This edition of the camp focused specifically on SDG#9 (Industry, Innovation & Infrastructure) and SDG#11 (Sustainable Cities & Communities). During the virtual camp, students had the opportunity to gain a broader perspective on smart city issues and explore various solutions, including changes in societal behaviour and the adoption of appropriate technologies to address numerous sustainable smart city challenges, especially in the post-pandemic era.

The learning outcomes of the camp included gaining an understanding of the current global challenges facing sustainable smart cities and proposing appropriate solutions to address these issues. The students also learnt how to select appropriate technologies to solve the challenges of smart cities based on their technical discipline. The importance of involving society in the application of appropriate technologies to achieve the SDGs related to sustainable smart cities was emphasised. Furthermore, the students were able to identify the specific challenges for sustainable smart cities in their home countries and formulate concrete steps to find solutions from a technological and societal perspective.

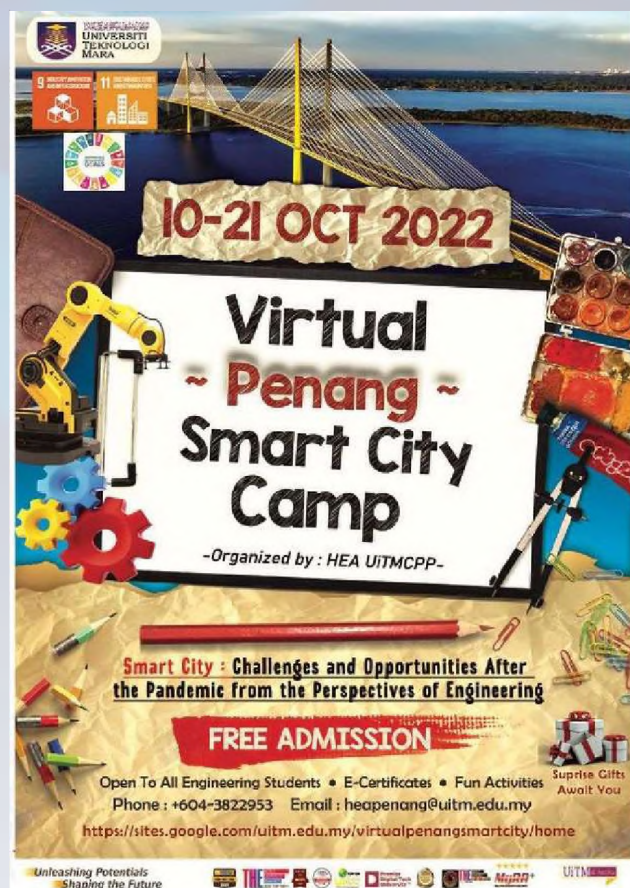


Figure 1: Poster Virtual Penang Smart City Camp 2022

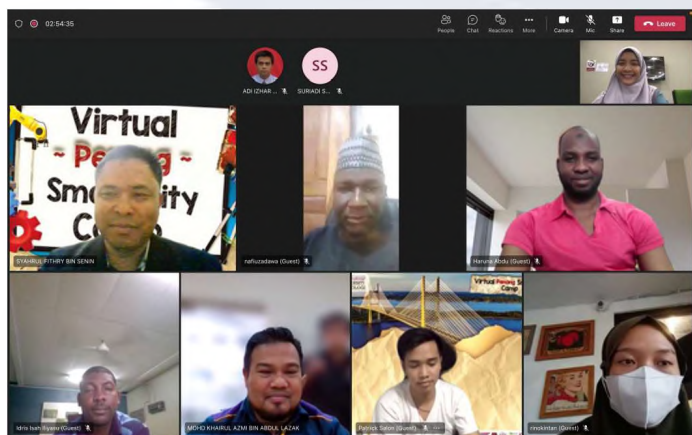


Figure 2: One of the sessions during P-SMACC 2022

A total of 15 courses were offered during the programme and speakers came from home and abroad. The opening of P-SMACC 2022 was graced by Assoc. Prof. Ir. Dr. Ahmad Rashidy Razali as the Acting Rector of UiTM Penang Branch. Distinguished speakers from academia, industry and government organisations shared their thoughts and insights on these topics with the participants, contributing to a valuable learning experience. More than 50 students from home and

abroad participated in the programme. As a reward, the students were invited to submit a video with the theme of Smart City: Post-Pandemic Challenges and Opportunities from a Technology Perspective. Three winners were announced, with first place going to Patrick B. Salon (Technological University of the Philippines - Taguig), second place to Kintan Cahyani (Institut Teknologi Sepuluh Nopember Indonesia, Indonesia) and third place to Haruna Abdu & Mohd Halim Mohd Noor (Universiti Sains Malaysia, Malaysia).

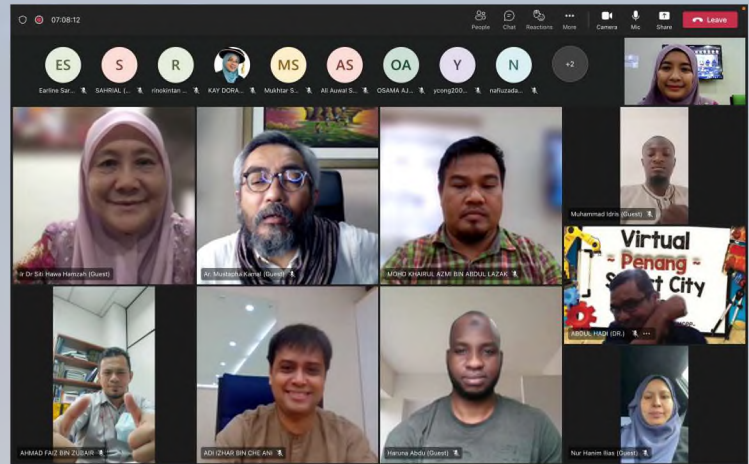


Figure 3: Another session during P-SMACC 2022

