BULETIN FKA

UNIVERSITI TEKNOLOGI MARA

Cawangan Pulau Pinang
Kampus Permatang Pauh

EDISI 2025

PENGAJIAN KEJURUTERAAN AWAM

UNIVERSITI TEKNOLOGI MARA CAWANGAN PULAU PINANG







Message from Ketua Pusat Pengajian



Assalamualaikum Warahmatullahi Wabarakatuh and greetings,

It is a pleasure to welcome you to the 2025 edition of Buletin FKA. This bulletin brings together the activities, achievements and memorable moments of the School of Civil Engineering, UiTM Cawangan Pulau Pinang throughout the year.

Looking back, 2025 has been a meaningful year for our School. While the achievements recorded in this bulletin deserve recognition, I believe our true strength lies in the people behind them. Every programme, student activity, research initiative and community engagement reflects the time and effort contributed by our lecturers, administrative staff, technical staff and students.

As educators, our responsibility extends beyond delivering academic content. We must prepare our students to think carefully, act professionally and respond confidently to the challenges they will encounter as civil engineers. The engineering profession continues to change, and our students must be ready to work with new technologies while remaining attentive to public safety, environmental concerns and the needs of society.

I am particularly grateful for the cooperation shown by everyone throughout the year. Some contributions are clearly visible through awards, publications and successful programmes, while many others take place quietly behind the scenes. Both are equally important to the continued success of our School.

To our students, I encourage you to make full use of every opportunity available during your time at UiTM. Academic knowledge provides the foundation, but your willingness to learn, communicate and take responsibility will shape the kind of engineer you eventually become.

I would also like to thank our alumni, industry partners and collaborators for continuing to share their knowledge and experience with us. Their involvement helps ensure that our teaching and activities remain relevant to professional practice.

Finally, congratulations to the editorial team and everyone who contributed to this edition. I hope Buletin FKA 2025 will serve as a meaningful record of our shared journey and remind us of what we can accomplish when everyone contributes.

Thank you and Wassalam.

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Benchmarking Visit by the Centre for Civil Engineering Studies, Universiti Teknologi MARA (PPKA, UiTM) Delegation to the School of Civil Engineering, Universiti Sains Malaysia (SoCE, USM)

Nur Azwa Binti Muhamad Bashar and Juhaizad Ahmad

The benchmarking visit to the School of Civil Engineering Studies, Universiti Sains Malaysia (SoCE, USM), took place on 25 November 2025 to benchmark the Bachelor of Civil Engineering (Infrastructure) with Honours programme against the SoCE, USM Programme (Bachelor of Civil Engineering with Honours) and the Self-Assessment Report (SAR). The PPKA, UiTM Delegation were leads by Head of Centre, Ts. Dr. Muhamad Faizal Pakir Mohamed Latif and participated by 34 Academic and Administrative staff (Assistant Engineer). The specific objectives of this visit were: (i) to identify the academic structure, syllabus, core content, and key teaching approaches of the current academic programme offered by SoCE, USM; (ii) to identify strategies for student assessment based on structured assessments such as tests and projects; (iii) to identify the management of the academic programme, particularly research activities listed under the Final Year Project (FYP), Integrated Design Project (IDP), and industrial training (IT); and (iv) to establish research connections or collaborative work between researchers from SoCE, USM and PPKA, UiTM.

The morning session began with a welcoming presentation, followed by a briefing on the programme offered by the Deputy Dean (Academic), Associate Professor Dr Norhazlinda Abdul Rahman. Additionally, the presentation on capstone courses such as Industrial Training, Final Year Project I and II, and Integrated Design Project was productive, as SoCE, USM and PPKA, UiTM exchanged, highlighted, and discussed various approaches. The discussion clarified the significance of these courses and enabled both institutions to compare similar and differing practices and viewpoints. The session then continued with small group discussions involving representatives of selected courses from both institutions, namely Statics and Dynamics (CES427), Soil Mechanics (CEG462), Hydraulics (CEW446), Highway and Traffic Engineering (CEG456), Reinforced Concrete Design (CES522), Infrastructure Design Project (CEC594), and Engineers in Society, from the Structural and Materials, Water Resources and Environment, Geology and Geotechnical, Highway and Transportation, and Construction Project Management divisions as indicated in Figure 2a. The respective coordinators also presented several good practices, including BIM implementation in selected courses, which PPKA UiTM coordinators may adopt as shown in Figure 2b. This sharing was important as it supported learning and helped both institutions identify suitable approaches for BIM implementation, which remains a key software platform in current industry practice.



Figure 1: PPKA, UiTM Delegation



Figure 2a: Small Discussion Group (WRES)



Figure 2b: Sharing Session by the PPKA, USM

After the discussion session, the delegation visited each laboratory in PPKA, USM as shown in Figures 3a and 3b, beginning with the Hydraulics Laboratory and ending at the Environmental Laboratory. Most of the laboratories visited were properly managed and demonstrated good housekeeping in line with the stipulated EAC guidelines. In addition, most of the equipment listed for academic activities was fully available, well-maintained, and regularly updated.



Figure 3a: Site Visit to Highway Laboratory

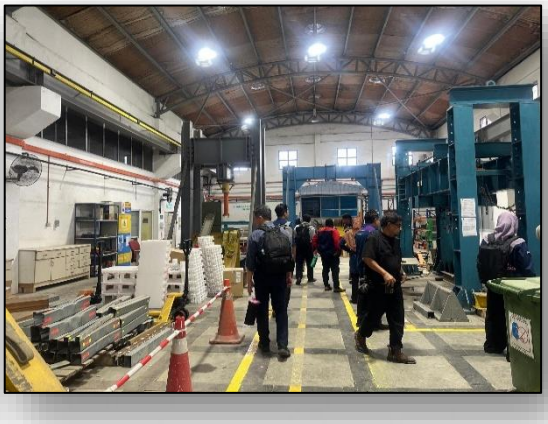


Figure 3b: Site Visit to Heavy Structure Laboratory

After the site visit and break session, the SAR report sharing session continued. Although the presented SAR 2024 report was based on the Engineering Accreditation Council (EAC) Standard 2020, PPKA UiTM can still adopt and adapt many of the good practices shared during the session for the current SAR draft.

In conclusion, this visit provided a valuable platform for academic benchmarking, the exchange of best practices, and future collaboration between SoCE, USM and PPKA, UiTM. Discussions on curriculum design, assessment strategies, capstone course management, laboratory facilities, and SAR preparation offered useful insights to support the ongoing improvement of the Bachelor of Civil Engineering (Infrastructure) with Honours programme at PPKA, UiTM. The visit also reinforced the importance of continuous engagement with established institutions to ensure quality assurance, academic enhancement, and accreditation readiness.