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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External Examiner Visit to the Centre for Civil Engineering Studies for the Bachelor of Civil Engineering (Infrastructure) with Honours Programme

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An external examiner (EE) visit for the Bachelor of Civil Engineering (Infrastructure) with Honours (CEEC223/EC223) Programme was organised by the Unit Jaminan Kualiti & Alumni, Centre for Civil Engineering Studies, Universiti Teknologi MARA Pulau Pinang Branch on 08 and 09 July 2025. This two-day programme was in the spotlight with an invited EE, Brig. Jen (RTD) Prof. Ir. Dr Norazman Mohamad Nor from MAHSA University, Kuala Lumpur. The specific objective of this visit highlighted the review of the curriculum for the CEEC223 programme, identification of the specific issues for improvement at the Centre for Civil Engineering Studies, particularly related to Teaching and Learning, identification of feedback by the appointed EE for the improvement of documents particularly Curriculum, Outcome Based Education (OBE), Quality Management System (QMS) and other related documents, as a preparation task for an actual accreditation visit by the Engineering Accreditation Department (EAD) representative especially to the specific facilities such as laboratory, library and hostel.

The first day session on 08 July 2026 commenced with the opening meeting between the invited EE and was participated by the representative from the State Executive Committee (JKEN) Universiti Teknologi MARA Pulau Pinang Branch and Centre for Civil Engineering Studies: Head of Centre, Head of Programme, EE visit committee members, and Resource Person as shown in Figure 1. The session was followed by a virtual interview session between EE and the invited Alumni to track the feedback by the alumni on the significance of the programme related to the Alumni's career and improvement can be done to align and tailor the current degree programme with the industry as shown in Figure 2a. The session with the active students was found interesting as students freely delivered and exchanged their thoughts on the current activities related to academic and external activities with the EE as shown in Figure 2b. The afternoon session focused on document checking such as the implementation of OBE for the programme via selected course files from various departments (STRUCTM, WRES, GEOTREN and CBPM). In addition, the visit to the Universities' facilities was also conducted to ensure the applicability and workability of these facilities for students' usage.



Figure 1: Day 1 (Opening Meeting)



Figure 2a: Day 1 (Interview session with Alumni)



Figure 2b: Day 1 (Interview session with Students)

The second day session on 09 July encompassed the virtual exit meeting via Microsoft Teams Meetings between EE and the JKEN representative, Prof. Ir. Ts. Dr. Siti Noraini Sulaiman (Deputy Rector) and was attended by the head of Centre, Head of Programme, EE Committee Member, academic staff, and technical/laboratory staff as shown in Figure 3. Several exit meeting key points were highlighted as follows:

i. Curriculum review: PKA has made improvements to core courses, especially Industrial Training (IT), Infrastructure Design Project (IDP), and Final Year Project (FYP).

ii. Outcome Based Education (OBE): In line with standards and proper gap analysis.

iii. Continual Quality Improvement (CQI): PEO is measured for individuals and programmes; therefore, CQI is fully completed and analysed at the end of each semester. I-RAS is an effective system with various outcomes based on the analysis conducted.

iv. Laboratory Facilities: All laboratories are equipped with sufficient facilities. However, some equipment requires replacement and upgrading. In addition, integration with advanced technology is needed to support current industrial needs.

v. Technical suggestions by interviewed alumni: It was suggested to critically emphasise Building Information Management (BIM) in the selected course, include the Integrated Design Project (IDP) session with management aspects such as engagement with the Local Authority and other parties, and incorporate Primavera to cover the curriculum. The current Industrial Training (IT) timeline is limited to 8 weeks; it is suggested to extend IT to a maximum of 6 hours per day or 12 weeks. It was also recommended to include marketable courses such as infrastructure construction technology as industry-ready courses, and to offer railway engineering as an elective subject to support infrastructure maintenance.

vi. External Examiner (EE) Panel and Students session: Students are aware of OBE and are able to respond to the interview inquiries during the session.

vii. Staff to Student Ratio: Sufficient staff to student ratio (1:10). OBE training with focus on the assessment regarding CEP (WP, WK, etc.) should be conducted continuously. The current CEP implementation is adequate and shown proof of evidence.



Figure 3: Day 2 (Exit Meeting via Microsoft Teams Meetings)

In conclusion, the two-day programme was a productive session with active engagement between the EE Panel and PPKA management, staff, and students. Several suggestions from the EE Panel and alumni were highlighted for current and future improvements before the actual accreditation visit in 2028 by the Engineering Accreditation Council (EAC), Board of Engineers Malaysia (BEM).