# 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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# Technical Talk: Hydrogeology

*Mohd Khairul Azhar bin Ismail, Khairul Afinawati Hashim, Nur Masyitah Osman, Fairus Azwan bin Azizan, Ahmad Syauqi Md Hasan, Rozaini Ramli, Juliana Idrus*

On 3 January 2026 (Saturday), a technical talk for course ECG243 (Soil Mechanics) titled "Understanding Soil Consolidation: From Theory to Practice" was successfully conducted via Microsoft Teams from 9.00 a.m. to 12.00 noon. The session was organised to enhance students' comprehension of soil consolidation - one of the fundamental topics in geotechnical engineering, while bridging the gap between theoretical concepts and practical applications. The talk was delivered by Ir. Wan Ahmad Syauqi bin Wan Abdul Rahim from Jabatan Kerja Raya (JKR), an experienced practitioner in geotechnical engineering. The session was attended by Diploma in Civil Engineering (CEEC110) students, particularly those currently undertaking ECG243, as well as lecturers who are directly involved in teaching Soil Mechanics. The session aimed to strengthen students' understanding of consolidation behaviour in soils, which is critical in predicting settlement and ensuring the stability and serviceability of civil engineering structures.



Ceramah membolehkan pelajar memahami asas hidrologi termasak pergerakan air bawah tanah, jenis-jenis akuifer dan kebolehtelapan. Penceramah turut berkongsi pengalaman dalam groundwater exploration, termasuk alatan dan mesin yang digunakan, cabaran di lapangan, serta pengurusan projek air bawah tanah di Malaysia. Kisah pengalaman sebenar ini memberikan Gambaran praktikal tentang aplikasi teori di dunia industry. Seramai 80 orang pelajar semester 2 Diploma Kejuruteraan terlibat dalam sesi yang sangat interaktif ini, dengan ramai yang mengemukakan soalan dan berdiskusi secara aktif. Program ini berjaya mengabungkan teori akademik dengan pengalaman industry professional, sekali gus memberi pendedahan awal yang menyeluruh kepada bidang hidrogeologi.

