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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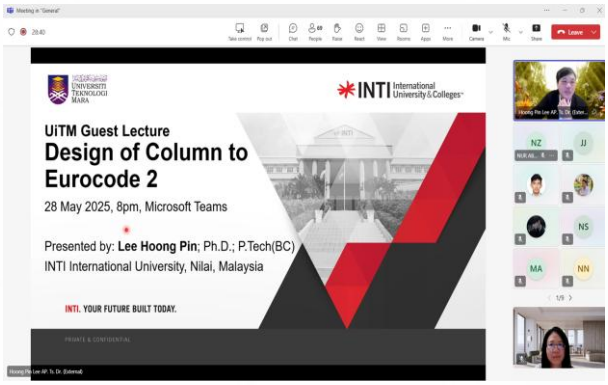
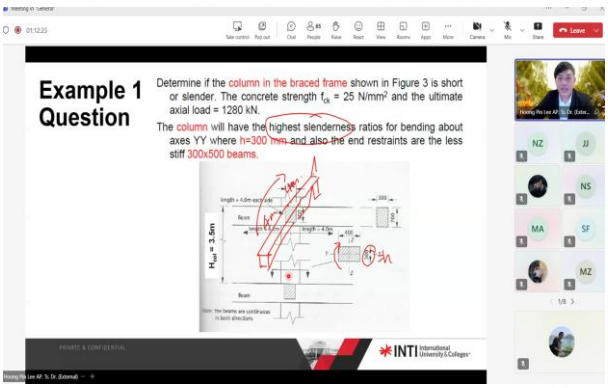
Bridging Expertise: Collaborative Teaching on RC Column Design between UiTM Penang and INTI International University

Lyn Dee Goh

In alignment with the university's initiative to enhance Open-Ended Learning (OEL) and student self-empowerment, a collaborative teaching session was successfully conducted for the Reinforced Concrete Design courses in the first half of 2025. This initiative adopted Model 2: Delivery Collaboration, which involves a strategic partnership between local universities to provide students with a broader perspective on structural engineering practices. By integrating experts from across disciplines, this approach aims to enrich the curriculum and empower students through diverse academic insights.



On 28 May 2025, a total of 104 students from the EC221 and EC223 programs, specifically those enrolled in the Reinforced Concrete Design courses CES522 and CES528, participated in an invited guest lecture titled "Lectures Unplugged: INTI Edition – Pillar Talk with INTI." The session was conducted virtually via Microsoft Teams and was moderated by Ir. Dr. Goh Lyn Dee. The session featured Assoc. Prof. Ts. Dr. Lee Hoong Pin from the Faculty of Engineering and Quantity Surveying at INTI International University, who was invited to share his technical expertise on a critical component of the civil engineering syllabus.



The core of the technical delivery focused on column analysis and classification for short and slender columns according to Eurocode 2 (EC2). This is a vital topic in structural design as it dictates whether second order effects, such as additional moments due to deflection, must be considered in the final design. Dr. Lee provided a comprehensive breakdown of slenderness ratio limits and the specific criteria for ignoring second order effects, while also detailing the calculation of effective lengths for columns in both braced and unbraced frames.

To foster the spirit of collaborative teaching and promote student self-learning, the session was designed to go beyond passive listening. Dr. Lee integrated detailed worked examples within the lecture to demonstrate the practical application of theoretical formulas to real world structural scenarios. Following the delivery of the core topic, students were provided with specific exercises to attempt on their own. This encouraged them to take charge of their learning process by testing their understanding of slenderness limits and eccentric loading prior to their formal assessments.

This cross-university collaboration highlights the significant impact of academic synergy in engineering education. By bringing in an external expert to deliver a core syllabus topic, students gained fresh insights into the technical nuances of Eurocode 2. This successful execution of Delivery Collaboration not only fulfilled the course requirements for CES522 and CES528 but also strengthened the ties between UiTM Penang and INTI International University, effectively bridging the gap between classroom theory and expert application.