



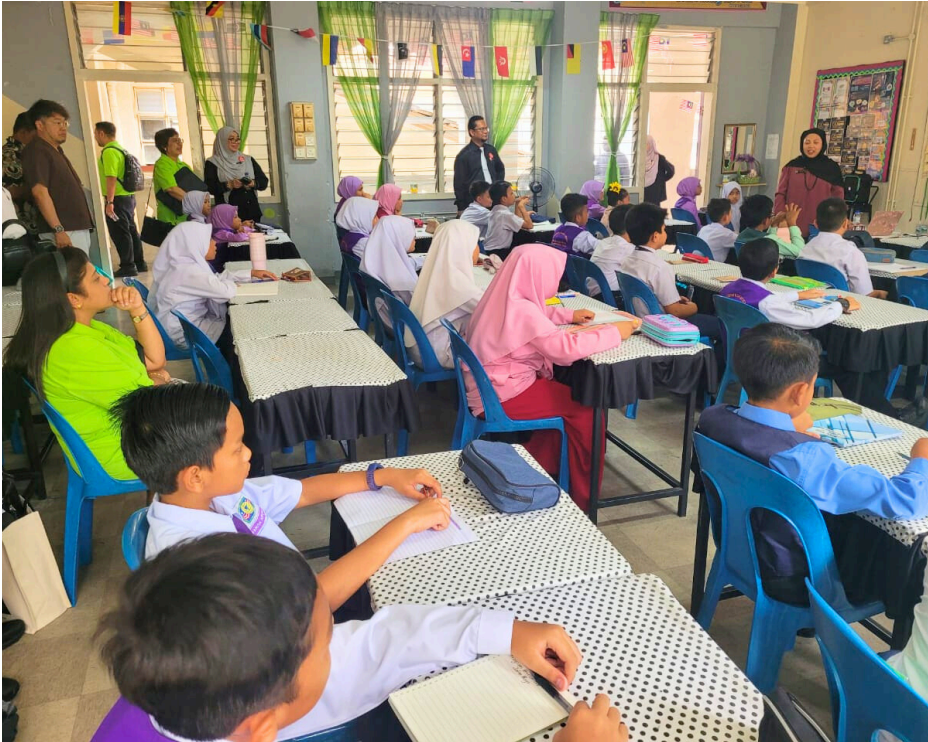
UNIVERSITI  
TEKNOLOGI  
MARA

Fakulti  
Kejuruteraan Awam

# ANNUAL REPORT 2025

FACULTY OF CIVIL ENGINEERING  
UNIVERSITI TEKNOLOGI MARA





## 4 QUALITY EDUCATION



# QUALITY EDUCATION: WHY IT MATTERS

### WHAT IS THE GOAL HERE?

To provide inclusive, equitable, and high-quality education that equips students with knowledge, skills, and values for sustainable development.

### TEACHING & LEARNING

Goal: To deliver high-quality, inclusive, and industry-relevant education that supports student success and lifelong learning.

#### Key contributions

- Continuously improve curriculum to align with industry and sustainability needs for example CDIO

competition under Civil and Engineering Appreciation course.

- Apply innovative teaching approaches using BIM, GIS platforms, simulation software and learning management systems (UFUTURE) alongside project-based learning activities.
- Program Bachelor of Civil Engineering Honors and Civil Engineering Technology Railway Infrastructure are integrate sustainability ESD and Value Based Education competencies into coursework to enhance reflective and responsible learning.

**100 %**  
of FCE  
programmes  
embed  
**sustainability**  
and  
**professional**  
**skills into**  
**teaching and**  
**learning**

## RESEARCH & PUBLICATION

Goal: To strengthen knowledge creation and academic excellence through impactful research and scholarly publications.

### Key contributions

- Produce high-quality research publications in civil engineering and sustainability fields (eg: *A Bibliometric Exploration of Accreditation in Civil Engineering Education: Trends and Insights*).
- Encourage research-led teaching to enrich student learning experiences.
- Involve students in research projects to enhance analytical and problem-solving skills.

## OPERATION

Goal: To maintain a supportive academic environment that enables effective learning and student development.

### Key contributions

- Provide academic advisory (PA) and support services to help students progress successfully.
- Ensure access to learning facilities, laboratories, and digital platforms.
- Support students with financial or personal challenges to reduce learning disruption.



## COMMUNITY OUTREACH

Goal: To extend educational benefits beyond campus through knowledge sharing and capacity-building activities.

### Key contributions

- Conduct knowledge-transfer programmes and workshops for schools and communities, such as *Eco-Engineers: Sustainability Innovations for Greener Future* under Sulam course.
- Engage in outreach activities that promote STEM and engineering awareness.
- Collaborate with communities to share practical engineering knowledge.



## STUDENT INITIATIVES

Goal: To empower students to lead academic, professional, and community learning activities.



### Key contributions

- Organise academic competitions, seminars, and knowledge-sharing programmes.
- Lead peer-learning and mentoring initiatives such as "Modul Aspirasi Utama" program for the March-August 2025 targeting Semester 1 students.
- Engage in educational outreach and volunteer tutoring activities.



SUSTAINABLE DEVELOPMENT GOALS

JUDUL : SUSTAINABLE DEVELOPMENT GOALS ANNUAL REPORT - [ONLINE]

eISSN : 3093-8104

eISSN 3093-8104



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