



UNIVERSITI
TEKNOLOGI
MARA

Fakulti
Kejuruteraan Awam

ANNUAL REPORT 2025

FACULTY OF CIVIL ENGINEERING
UNIVERSITI TEKNOLOGI MARA





CLEAN WATER AND SANITATION: WHY IT MATTERS

WHAT'S THE GOAL HERE?

Access to clean water and safe sanitation is essential for healthy communities and sustainable development. As a civil engineering faculty, FCE plays a key role in preparing future engineers to design, manage, and maintain water and sanitation systems that protect public health and the environment. Through teaching, research, and community engagement, the faculty promotes responsible water use, pollution prevention, and sustainable infrastructure solutions.

TEACHING & LEARNING

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

Key contributions

- Integrate water resources, sanitation, and environmental sustainability topics into coursework.
- Encourage student projects related to water conservation and sustainable systems.

6 CLEAN WATER AND SANITATION



More
research and
student
projects in
2025 focused
on water
quality,
sanitation,
and
sustainable
water
systems

RESEARCH & PUBLICATION

Goal: To advance research that improves water management, sanitation systems, and environmental sustainability.

Key contributions

- Conduct research on water quality, water treatment, and sustainable water systems (eg: *Additional factors for flash flood prevention of KLCH planning development order checklist*)
- Collaborate with agencies and industry on water and sanitation improvement projects for example grant lead by Dr Azlinda Saadon on Pilot Study of Biocatalyst Operational Septic Tanks In The Perhentian Islands Marine Park and Projek Komunikasi, Pendidikan Dan Kesedaran Awam (CEPA) Bagi Program Ramalan Dan Amaran Banjir Negara (PRAB) di Lembangan Sungai Pinang Dan Perai lead by Prof Dr Wardah Tahir.
- These initiatives enhance sustainable wastewater management, strengthen flood preparedness, and promote public awareness on protecting water resources and sanitation systems for resilient communities.

OPERATION

Goal: To encourage responsible water use and environmentally sustainable practices within faculty operations.

Key contributions

- Promote water-saving awareness among staff and students.
- Encourage environmentally responsible facility use and maintenance.
- Participate in university sustainability initiatives related to resource management.



STUDENT INITIATIVES

Goal: To involve students in sustainability and environmental initiatives related to water and sanitation.



Key contributions

- Organise student-led environmental and sustainability campaigns.
- Participate in community programmes related to water and environmental awareness.
- Encourage innovation and projects focused on sustainable water solutions.

COMMUNITY OUTREACH

Goal: To share knowledge and promote safe water and sanitation practices within communities.

Key contributions

- Conduct outreach programmes on water conservation and environmental care.
- Share practical knowledge on safe water practices and sanitation awareness.
- Collaborate with communities on environmental sustainability initiatives.



SUSTAINABLE DEVELOPMENT GOALS



JUDUL : SUSTAINABLE DEVELOPMENT GOALS ANNUAL REPORT - [ONLINE]

eISSN : 3093-8104

eISSN 3093-8104



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