



UNIVERSITI
TEKNOLOGI
MARA

Fakulti
Kejuruteraan Awam

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FACULTY OF CIVIL ENGINEERING
UNIVERSITI TEKNOLOGI MARA





SUSTAINABLE CITIES: WHY THEY MATTER

WHAT'S THE GOAL HERE?

To contribute engineering knowledge and actions that support safer, more resilient, and sustainable communities.

TEACHING & LEARNING

Goal: To prepare students to design infrastructure that improves safety, sustainability, and quality of life in communities.

Key contributions

- Integrate topics such as sustainable cities, resilient infrastructure, and environmental responsibility into coursework.

- Use real-world case studies related to urban challenges and community safety.
- Encourage design projects that consider social, environmental, and community impacts.
- Promote awareness of engineers' roles in building liveable and safe communities.
- Example courses under SDG 11: Environmental Engineering & Sustainability, Construction Project Management, Construction Technology, Technology Entrepreneurship, Final Year Project.

11 SUSTAINABLE CITIES
AND COMMUNITIES



17
projects
community
outreach
(SULAM)
contributed
to safer,
more
resilient, and
sustainable
communities

RESEARCH & PUBLICATION

Goal: To generate research that improves infrastructure resilience, safety, and sustainability in urban and rural communities.

Key contributions

- Conduct research on resilient structures, disaster risk reduction, and sustainable construction.
- Publish studies addressing safety, liveability, and long-term infrastructure performance.
- Collaborate with agencies and industry on projects that benefit community development.
- Support applied research that solves real community infrastructure issues..

OPERATION

Goal: To promote responsible use of facilities and create a safe, supportive built environment within the faculty.

Key contributions

- Maintain safe and functional learning spaces for students and staff.
- Encourage responsible use of campus facilities and shared spaces.
- Support university initiatives related to sustainability and environmental responsibility.
- Promote a culture of safety and care within the faculty environment.

COMMUNITY OUTREACH

Goal: To share engineering expertise that helps communities become safer, more sustainable, and more resilient.

Key contributions

- Conduct outreach programmes related to safety awareness and sustainable living eg: Nextgen Engineers: Empowering Communities "Empower Together for Kids' Safe, Inclusive, and Innovative Future" 2.0.
- Share practical knowledge on infrastructure care, risk reduction, and environmental practices.

STUDENT INITIATIVES

Goal: To involve students in activities that promote sustainable and caring communities.

Key contributions

- Organise student-led programmes related to environmental care and community wellbeing.
- Participate in volunteer activities supporting community safety and improvement.



Study on Rural Empowerment and Community HELP (REaCH) 2.0

Festival Perpatih under the REaCH 2.0 Programme, held at SK Pasir Ambor, Kuala Pilah, strengthened community cohesion and local socio-economic development. The initiative brought together residents through inclusive activities, agency exhibitions, and local product sales, while providing business funding to 20 entrepreneurship participants. The programme reinforced collaboration between stakeholders and empowered rural communities, supporting sustainable and resilient village development.



SUSTAINABLE DEVELOPMENT GOALS

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