



UNIVERSITI
TEKNOLOGI
MARA

Fakulti
Kejuruteraan Awam

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FACULTY OF CIVIL ENGINEERING
UNIVERSITI TEKNOLOGI MARA





13 CLIMATE ACTION



CLIMATE ACTION: WHY IT MATTERS

WHAT'S THE GOAL HERE?

To build awareness, knowledge, and action towards addressing climate change through engineering education, research, and community engagement.

TEACHING & LEARNING

Goal: To prepare students to understand climate risks and apply sustainable, climate-responsive engineering solutions.

Key contributions

- Integrate climate change, sustainability, and environmental impact topics into coursework.

- Use design projects that consider resilience, adaptation, and long-term environmental performance such as in Engineer in Society under the Project Rainwater Harvesting.
- Promote awareness of the engineer's role in reducing environmental impact.
- Encourage students to apply sustainable and low-impact approaches in academic work.
- The courses under SDG 13 are Hydrology and Water Resources, Construction Technology, Coastal and Groundwater Engineering (elective course).

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courses and
projects
incorporated
climate
resilience and
environmental
sustainability
considerations

RESEARCH & PUBLICATION

Goal: To advance research that supports climate resilience, environmental protection, and sustainable infrastructure.

Key contributions

- Conduct research on resilient infrastructure, disaster risk reduction, and environmental sustainability.
- Publish studies addressing climate adaptation and mitigation in the built environment.
- Collaborate with industry and agencies on projects related to climate resilience.
- Support student research that contributes to sustainable and climate-aware solutions.

OPERATION

Goal: To promote environmentally responsible practices within faculty operations.

Key contributions

- Encourage energy-saving and resource-efficient practices among staff and students.
- Support initiatives that reduce environmental impact in daily operations.
- Promote awareness of sustainability and environmental responsibility on campus.
- Participate in university programmes related to environmental and climate initiatives.

COMMUNITY OUTREACH

Goal: To share knowledge and practical actions that help communities understand and respond to climate-related challenges.

Key contributions

- Conduct outreach programmes on environmental awareness and climate resilience.
- Share practical knowledge on risk reduction and sustainable living practices.
- Collaborate with communities on initiatives that support environmental protection.
- Engage students in volunteer activities related to environmental and climate awareness.



STUDENT INITIATIVES

Goal: To encourage students to lead and participate in climate and environmental responsibility initiatives.

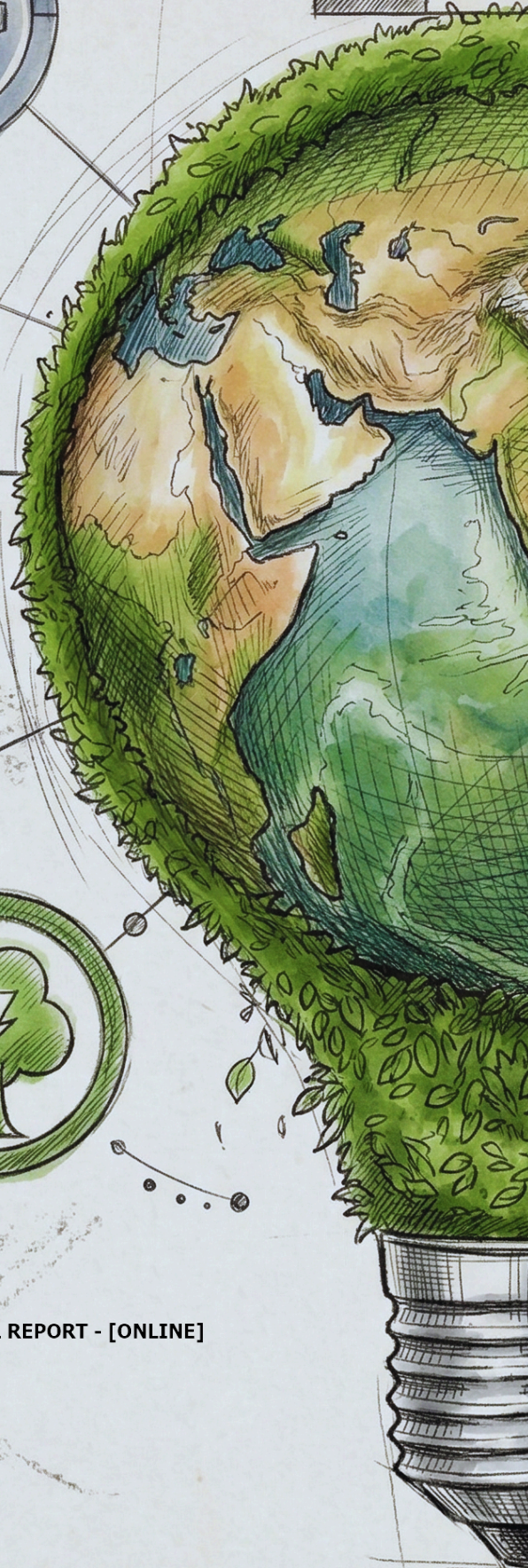
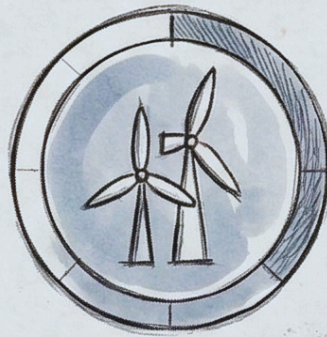
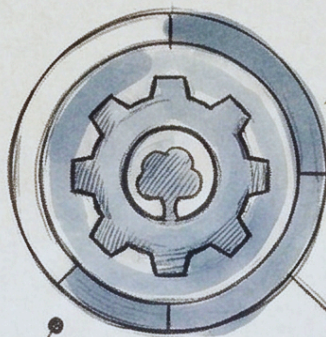
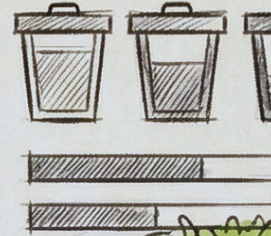
Key contributions

- Organise student-led environmental and sustainability campaigns.
- Participate in community programmes related to environmental protection.
- Support innovation projects focused on sustainable and climate-friendly solutions.
- Promote peer awareness on responsible environmental practices.



The engagement activities successfully achieved the project's objective of raising awareness and promoting civil engineering solutions within the community. Although the Rainwater Harvesting System was not physically installed, the prototype exhibition served as an effective educational platform, encouraging informed consideration of future RWHS implementation at the village.





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