

**UNIVERSITI TEKNOLOGI MARA
PERAK BRANCH**

**UNDERGROUND RAINWATER HARVESTING SYSTEM
FOR IRRIGATION**

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Innovation project report submitted in partial fulfilment of the
requirement for degree of
Bachelor of Science (Hons.) Construction Technology

Faculty Of Architecture, Planning and Surveying

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AUTHOR'S DECLARATION

I declare that the work in this innovation project report was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This topic has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

In the event that my innovation project report, be found to violate the conditions mentioned above, I voluntarily waive the right of conferment of my degree and agree to be subjected to the disciplinary rules and regulations of Universiti Teknologi MARA.

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ABSTRACT

Rainwater harvesting (RWH) has recently gained popularity as a viable alternative supply of potable water, particularly in impoverished nations. A good design and system of rainwater harvesting system bring many benefits to UiTM Perak's student accommodation. This proposal provides a simple and sensible invention of a rainwater harvesting system based on limited data, such as the existing issue and problem, that may achieve small inaccuracy and conservative forecasts while utilising limited data. In order to assist both plants and the environment, a new rainwater harvesting system has been developed that will help to increase soil fertility while simultaneously reducing the need for chemical fertilisers. Furthermore, this invention has the advantage of allowing students or university administration to use the ground area for other purposes such as tree planting or parking lots, which is beneficial. People at the college can utilise this combined approach to maintain a life.

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