

**THE MECHANICAL BEHAVIOUR OF
WEATHERED GRANITIC ROCK SLOPE BY
WETTING AND DRYING CYCLE**

UMMI KHADIJAH BINTI SHAMSUDDIN

**Bachelor of Engineering (Hons) Civil
(Infrastructure)
UNIVERSITI TEKNOLOGI MARA
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By

UMMI KHADIJAH BINTI SHAMSUDDIN

This report is submitted as a
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DECLARATION BY CANDIDATES

I declare that the work in this thesis 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.

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for Under Graduate, Universiti Teknologi MARA, regulating the conduct of my study and research.

Name of Candidate : UMMI KHADIJAH BINTI SHAMSUDDIN
Candidate I.D. No. : 2015877988
Programme : Bachelor of Engineering (Hons) Civil
(Infrastructure)
Faculty : Civil Engineering
Title : The Mechanical Behaviour of Weathered
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Cycle.

Signature of Candidate :
Date : Jan 2018

ABSTRACT

Geological Engineering is concerned with the identifying and understanding the geological controls on the engineering properties. These control range can come from the properties of the rock such as the capacity of materials to hold fluids, and boundaries within a volume. The main aim of rock mechanics is to understand the behaviour of the rock and be able to predict the how they will response when there is weathering agent contact and force acting on them. There are many factors that will make the strength of rock reduce. One of the most influence factor that will reduce the strength is weathering process. When weathering process take place some of the minerals that make the rock strength may be altered. Simulation of weathering process have been conducted by laboratory testing to investigated the changes to the rock for physical; porosity of the rock sample and the mechanical properties especially for the compression strength of the rock. The relationship between weathering and properties of rock; physical, dynamic and mechanical has been identified and there is some changes occur due to the weathering process.

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