

CERAMAH TEKNIK TECHNICAL TALKS

1. Geology in Civil Engineering Education

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15 May, 2014

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Abstract 1: In civil engineering education at UiTM, the program was developed for the purpose of preparing future civil engineers who are responsible for the design of building structure, road, bridge, dam, slope etc. All these structures are built on, or in, the earth, thus information on soil and rock properties, groundwater, and even earthquakes should be considered in their design. The most related parts of geology and civil engineering is geotechnical division where they started with engineering geology in first year followed by soil mechanics, geotechnical principles and foundation design on the following years. Other subjects that related to geological study is site investigation and rock engineering. Many universities, local and abroad hire academicians with geology background to teach geology in civil engineering departments. However many of them have a background in education and training in the field of geology alone. In order to achieve an effective learning out come for the civil engineering program in universities or colleges, the academicians who teach the geology subject must have a good back ground on both field of studies which are geotechnical or civil engineering and geology. Therefore by having these multidisciplinary education or training background, the geology in civil engineering program not only provide the civil engineers some knowledge of geology for civil engineers to appreciate but to have a strong understanding on the subject for decision making, either as a contractor, consultant or client of the civil engineering projects.