

UNIVERSITI TEKNOLOGI MARA

**PHYSICOCHEMICAL CHARACTERISTICS OF
MOSQUITO BREEDING SITES
IN UITM SHAH ALAM**

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**Project paper submitted in partial fulfilment of the requirements
for the degree of Bachelor in Environmental Health and Safety
(Hons.)**

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Declaration by Student

Project entitled "Physicochemical Characteristics of Mosquito Breeding Sites in UiTM Shah Alam" is a presentation of my original research work. Wherever contribution of the others are involved, every effort is made to indicate this clearly, with due reference to the literature, and acknowledgment of collaborative research and discussions. The project was done under the guidance of Associate Professor Rodziah Ismail and Mr. Mohd Razi Ikhwan bin Md Rashid as Co-Supervisor. It has been submitted to the Faculty of Health Sciences in partial fulfillment of the requirement for the Degree of Bachelor in Environmental Health and Safety (Hons.)

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ABSTRACT

Background & objectives: Dengue fever (DF) is a major vector-borne disease in Malaysia. The incidences of DF in Malaysia are caused by viruses transmitted through the bites of infected female *Aedes albopictus* and *Ae.aegypti* mosquitoes. This study aims to establish the physicochemical characteristics breeding of mosquito in colleges at UiTM Shah Alam.

Methods: Natural and man-made breeding media in UiTM Shah Alam were surveyed for the presence of mosquito larvae. The physicochemical characteristics of breeding water such as pH, conductivity, total dissolved solids, turbidity, dissolved oxygen and chemical properties in media were measured with suitable.

Results: Through data obtained through test on physicochemical breeding media, available physical and chemical factors affecting reproduction and distribution of the number of dengue cases at the UiTM Shah Alam. Significant differences can be shown through data T-Test and one way ANOVA to comparing the physicochemical properties of high dengue cases and low dengue cases area.

Conclusions: The existent different of physicochemical characteristics between high dengue cases and low dengue cases, thus we can give priority for prevent and control

Keywords: *Aedes*, Dengue, Breeding site, UiTM Shah Alam, Physicochemical, *Aedes*.