

UNIVERSITI TEKNOLOGI MARA



ROAD ACCIDENT ANALYSIS AT UNIVERSITI TEKNOLOGI
MARA MALAYSIA SHAH ALAM CAMPUS

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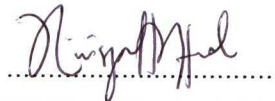
BACHELOR IN ENVIRONMENTAL HEALTH AND
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Declaration by Student

Project entitled "Road Accident Analysis at Universiti Teknologi Mara Shah Alam Campus" is a presentation of my original research work. Wherever contributions of others are involved, every effort is made to indicate this clearly, with due reference to the literature, and acknowledgement of collaborative research and discussions. The project was done under the guidance of Mr Ahmad Razali Bin Ishak. It has been submitted to the Faculty of Health Sciences in partial fulfilment of the requirement for the Degree of Bachelor in Environmental Health and Safety (Hons).

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Abstract

Road Accident Analysis at UiTM Shah Alam

Norraisyah binti Ahmad

Introduction: Road accident analysis has come to attention as traffic fatalities has increased significantly. There are few causes of road accidents which are preventable. The number of accidents in the main campus, UiTM Shah Alam is high due to its high number of population.

Objective: The aim of this study is to assess the trend of accident cases in UiTM Shah Alam. Besides that, the research could determine the hot spots where accidents frequently occur by generate risk mapping of road accident at the campus site and evaluate the related physical risks.

Methodology: For this purpose, traffic accident data in 2009 until 2013 has been gathered and tabulated in Geographical Information System (GIS) for analysis. GIS is used to identify the accident hotspot in UiTM Shah Alam. Field observation has been done by conducting a Traffic Impact Assessment and HiRARC at the hotspot location.

Result: The study reveals the trends of road accidents in UiTM Shah Alam from 2009 to 2012. It shows that accidents cases have been decreasing. Despite descending trend of number of accidents, accidents in hotspot location identified by GIS however has increased. Besides that, from traffic impact analysis that has been run, it shows that the heavy traffic in the hotspot location becomes the main factor of accident and motorcycle is the main vehicles which are used by students. In relation to road safety, several road conditions require improvement to ensure environmental, health, safety and convenience of the road users. **Conclusion:** Even though the road accident pattern in UiTM Shah Alam has been decreasing, the increasing number of accidents in the hotspot location needs to be given attention. Major safety arrangements need to be done by the university authority in order to decrease the incidence of the accidents.

Keywords: Road Analysis, Road Safety, Geographical Information System, Traffic Volume Count, HiRARC, UiTM Shah Alam