

UNIVERSITI TEKNOLOGI MARA

**TRAFFIC RISK MAPPING AT UITM PERLIS
BRANCH USING GEOGRAPHICAL
INFORMATION SYSTEM (GIS)**

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Thesis submitted in fulfillment
of the requirements for the degree of
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AUTHOR'S DECLARATION

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 thesis 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 Undergraduate, Universiti Teknologi MARA, regulating the conduct of my study and research.

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ABSTRACT

Traffic plays major role in the development of a nation to make safe transfer of persons and goods from one location to another. There are many risk that can be occur from the possible risk. Each travel mode has its attendant risks, which vary from community to community and any shifts from one mode to another can have a marked effect on the overall safety for a particular community. The problem of risk traffic is road transport as a system of relatively high risk reduction potential at UiTM Perlis campus. There are many of hazard that can cause the traffic risk. Student behavior and the reasoning behind the behavior at any point in time is difficult and thus challenging to understand from a technical viewpoint. So, traffic can be interpreted as a phenomenon of great complexity which is not subject to the simple laws, and often can observe the paradoxes negative of intuition or common health. Statistical techniques are commonly adopted to analyze traffic different with spatial analysis is difficult to apprehend. Therefore, traffic risk mapping can be identify the level of risk which is low, moderate or high by combination of likelihood and severity. In order to determine the level of risk was by determine hazards event occur during work activity and also the injury or damage that will be effect by the event. The classification of risk by using GIS software which is ArcMap 10.7 version. This study showed the capability of ArcMap 10.7 in generating traffic risk mapping using geographical information system (GIS) at UiTM Perlis branch.

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