UNIVERSITI TEKNOLOGI MARA

BUILDING MAINTENANCE AUDIT WITH THE AID OF GIS

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Thesis submitted in fulfillment
of the requirements for the degree of
Bachelor of Science Survey and Geomatics

Faculty of Architecture, Planning and Surveying

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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

Maintenance is important in maintaining a building condition in order to avoid unnecessary cost and to avoid accident. Nowadays, most of the building does not go through maintenance due to the high cost for maintenance. The aim for this research is to determine the condition of the building whether it can be maintained or not by creating a database for the maintenance data, visualised the data and also mapping the defect of the building. The research started from collecting the inspection data to be used in database creation. Then, it is being processed in ArcMAP software to be visualised and also to map the defect for the building. The final product of this research is the map of the defect in 2D. It is more convenient compare to the conventional method as the information of the defect can be obtained in the map. It can reduce the time constraint and help to reduce the time for the maintenance team to take action according to the condition of the building.

TABLE OF CONTENT