



**DEPARTMENT OF BUILDING SURVEYING
FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING
UNIVERSITI TEKNOLOGI MARA (UiTM)
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A STUDY OF RUNWAY MAINTENANCE IN INTERNATIONAL AIRPORTS

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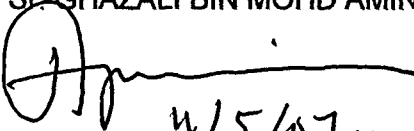
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ABSTRACT

Air transportation in Malaysia has undergone exponential growth ever since the KLIA was completed. Since the airport is an international gateway and has an important role in air transportation system, it is important to provide safety and functional instrument for aircraft operation, but how to maintain airport pavement due to avoid accidents and loss happen? The implement of maintenance in airport is much complicated due to unpredictable condition of pavement caused by altering of aircraft load and movement.

In aircraft operation there are many factor contributes to accident and damages. And one of the factors is runway condition. Airport pavements represent a substantial portion of the total investment made in airport facilities. To protect this investment, pavement structural maintenance is a necessity and should not be neglected. Maintenance of airport runway is also done to keep the runway safe for all aircraft operations. The inspection and maintenance work need to carry out regularly on airport pavement to defined defects and failures on its surface to reduce the risk of damages, loss and accidents.

The implementation of pavement management system to handling international airports gives a modern way to manage pavement effectively and efficiently. The system included several surveys and tests that need to carry out in order to produce a summary report about the condition of pavement for rehabilitation purpose.

With the proper management system and the implement of effective maintenance system, the airport pavement maintenance will help to reduce accident due to pavement condition of the aircraft operation.

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