

**Universiti Teknologi MARA**

**A WEB BASED EXPERT SYSTEM FOR PRE-  
DIAGNOSING GESTATIONAL DIABETES**

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Thesis submitted in fulfillment of the requirements for  
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**Quantitative Sciences**

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## **DECLARATION**

I certify that this thesis and the research to which it refers are the product of my own work and that any ideas or quotation from the work of other people, published or otherwise are fully acknowledged in accordance with the standard referring practices of the discipline.

31 MAY 2006

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## **ABSTRACT**

Medical area has a lot of contribution in revealing any particulars about the medicine such as type of disease, implication of a disease and also some prediction of having a disease. This research uses rule-based expert system representation and techniques to solve and make a pre-diagnosis of having gestational diabetes (GD) among pregnant women. After several times taken in understanding the domain subject, the researcher listed a set of risk factors and common symptoms, conducted some interviews with some experts in order to get the solution of handling GD and uncertainty management through web-based expert system. Each phase of the research methodology was gone through in order to have and analyze the effectiveness of pre-diagnosing through the web based application.

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