

**Universiti Teknologi MARA**

**Unit Kesihatan UiTM (Perak) Appointment  
Scheduling System Using Genetic Algorithm (GA)**

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## ABSTRACT

Internet has been widely used by many groups of people to perform various activities such as seeking for information, finding jobs, shopping, banking, learning and many more. The aim of this research is to develop an Appointment Scheduling System for Unit Kesihatan UiTM (Perak) using web based database approach as an alternative to conventional record keeping being used currently by the Unit Kesihatan. The use of the proposed system will promote efficiency through reduction of patient waiting time, faster data retrieval, safer record keeping in the dedicated database and effective doctor's time management. Genetic Algorithm method has been implemented in the system to facilitate more effective appointment making tasks by the patient. However, the result from the analysis has shown otherwise, which Genetic Algorithm is not effective towards small scale of data. It is suggested that the method should be used in larger premise with larger number of patients and the resources, such as doctors, nurses, available treatment time and so forth to the future works.

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