

***Optimizing the Preparation of the Information Technology Course Schedule
Using the Genetic Algorithm Method***

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ABSTRACT

Scheduling courses is a routine activity at a university and is a very important activity for the implementation of good academic activities. The schedule making process is generally still done manually using a spreadsheet, by compiling tables of schedule draft data. Problems that generally often occur in lecture scheduling are the length of the schedule making process and the existence of lecture schedules carried out by one lecturer in different semesters/classes/classes at one time. So, we need a course scheduling system that can be done automatically with the help of a computer and can be done quickly, accurately, and efficiently by paying attention to the rules that have been made. Based on the problems above, this study intends to optimize the preparation of the lecture schedule in the information technology department by using the genetic algorithm method. So that the lecture scheduling process is faster and lecturers' teaching schedule conflicts can be minimized.

Keywords : Algorithm, Genetics, Courses, Schedule, Infromation Systems