

THE COMPUTER AIDED COURSE SCHEDULER

A Thesis

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ABSTRACT

Timetabling is division of a general schedule. It refers to the process of assigning different resources while complying with several constraints and restrictions. Realistic solutions can often be found easily but the potential feasible combinations are very difficult to find.

The requirement for a computerized system to schedule courses, teachers, students, and rooms became apparent after observing the Schedule Coordinator struggle with the scheduling process.

In a school scheduling problem, the resources available are faculty, courses being offered, time periods and classrooms. A solution must group these resources together to produce a class schedule to adhere to certain conditions to be set by the Schedule Coordinator handling the schedule. All feasible and meaningful solutions must satisfy a set of inviolable conditions, such as the obvious constraint that no two distinct classes can be held in the same time period and classroom, or no conflicts between the time period and classroom assignments.

This is where the Computer Aided Course Scheduler got into place. It is a system that will efficiently schedule classes for both the students and faculty. It will eliminate the tiresome and paper-oriented generation of general schedule. The system also provides security for data. It is capable of adding, deleting, and editing of subjects and faculty being fed into the database. Class schedules must be produced accurately and distributed before the registration periods.