

AUTOMATED COLLEGE TIMETABLE GENERATOR

In Partial Fulfillment

Of the Requirements for the subject

IT 106 – IT Project Management

Submitted by:

QUEJAC YASEL P. TANEO JESABEL ARANZADO

BSIT - III

Submitted to:

JEZA GETTE SUMANPAN

Instructor

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Gingoog City Colleges Paz Village, Brgy. 24-A, Macopa St., Gingoog City

INTRODUCTION

Although majority college organization work has been mechanized, the lecture timetable preparation is still commonly done manually due to its inherent difficulties. The physical lecture-timetable preparation demands significant time and efforts. The manual lecture-timetable scheduling is a limitation fulfillment problem in which we find a result that satisfies the given set of constraints.

There have been numerals of approaches made in the earlier period to the difficulty of constructing timetables for colleges and schools. Timetabling problems may be solve by diverse methods inherited from operation study such as graph colouring, local search measures such as tabu search, simulated annealing, genetic algorithms or from backtracking based constraint fulfillment handling. In our project, timetable problem is formulated as a constraint fulfillment problem and we proposed a realistic timetable algorithm which is capable of taking care of both hard and soft constraints. It is a complete timetable solution for Colleges which help to overcome the challenges in manually constructing the timetable.

MOTIVATION

Most colleges have a number of different courses and each course has a number of subjects. Now there are limited faculties, each faculty teaching more than one subject. Authority could not concentrate on other things when preparing the timetable because they need to perform permutation and combination which is consumes a lot of their time.

With the help of the Automated College Timetable Generator, the faculty need not to worry for time clashes. This system can be used by schools and colleges to create timetable. Furthermore, this system is needed to schedule the faculty at provided time slots in such a way that their timings do not overlap and the timetable schedule makes best use of all faculty subject demands.

PROJECT DETAILS

- Software Requirements:
 - Windows 7
 - Sql 2008
 - Visual studio 2010

- ♣ Hardware Components:
 - Processor Dual Core
 - Hard Disk 50 GB
 - Memory 1GB RAM



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Advantages:

- Faculty did not need to worry for time clashes.
- Authority now does not need to perform permutation and combination
- Authority can concentrate on other things rather than wasting their time on preparing Timetable

Disadvantage:

- User has to format it a bit after it is prepared.
- It is complicated task that to handle many Faculty's and allocating subjects for them at a time physically.

Applications:

• This system can be used by Schools and Colleges to create Time-Table

CONCLUSION

Normally, timetable generation is done by hand. As we know all institution/organization have its own timetable; managing and maintaining these will not be difficult. Considering workload with this scheduling will make it more complex. As mentioned, when timetable generation is being done, it should consider the maximum and minimum workload that is in a college. In those cases, timetable generation will become more complex. Also, it is a time consuming process.

It is complicated task that to handle many Faculty's and allocating subjects for them at a time physically. So my proposed system will help to overcome this disadvantage. Thus, we can produce timetable for any number of courses and multiple semesters. This system will help to create dynamic pages so that for implementing such a system we can make use of the different tools are widely applicable and free to use also.

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