CERTIFICATE

Certified that Shubham Gupta, Siddharth Kapoor, Priyanka Jain and Vishu Kadiyan have carried out the project work presented in this report entitled "TiBle - Time Table Generator" for the award of Bachelor of Technology from Inderprastha Engineering College, Ghaziabad, under my supervision. The report embodies result of original work and studies carried out by students themselves and the contents of the report do not form the basis for the award of any other degree to the candidate or to anybody else.

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DECLARATION

We hereby declare that this submission is our own work and that to the best of our knowledge and belief. It contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

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ABSTRACT

A college timetable is a temporal arrangement of a set of classes and faculties in which all given constraints are satisfied. The manual system of preparing time table in colleges with large number of students is very time consuming and usually ends up with various classes clashing with same teachers having more than one class at a time.

Timetabling has long been known to belong to the class of problems called NP hard. To overcome all these problems we propose to make an automated system. This project introduces a practical timetabling algorithm capable of taking care of both strong and weak constraints effectively, used in an automated timetabling system.

Our Timetabling Algorithm is main component of our project which produces the HTML based weekly timetable sheet as the output. Our project takes various inputs from the user such as Faculty List, Course List, Semester List, Day List and Timeslot as well as various rules, facts and constraints using web based forms, which are stored in the database. List of subjects may include electives as well as core subjects. This database serves as an input to our Timetable Generator Algorithm residing on server machine.

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