P1:Timetable Management System for an Academic Institution

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PROBLEM STATEMENT:

The allocation of whole events in timeslots performs by university course timetabling process considering the hard and soft constraints, so that no conflict I such allocations.

INPUT

Number of sections

Number of subjects and teacher

Lab details

Total number of period per day/Total No. of days per week

Total number of hours for subject per week and extra curricular activity periods

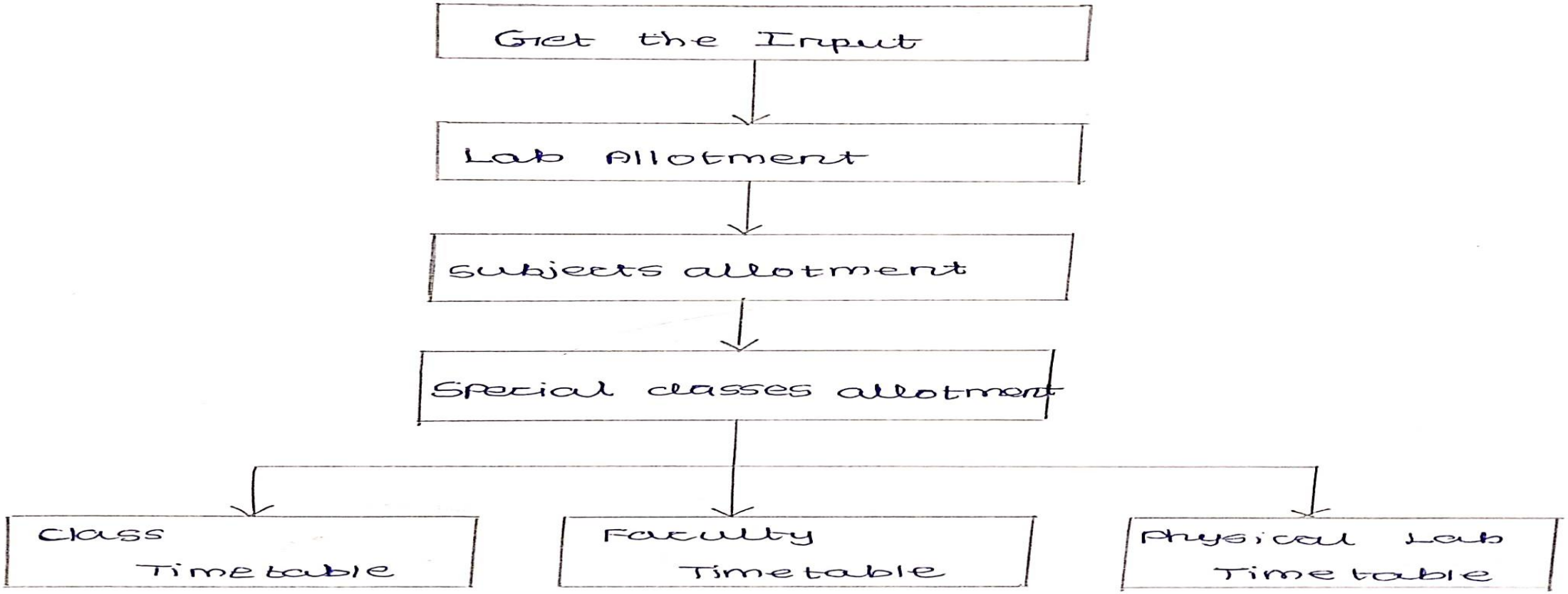
OUTPUT

Class Time Table for all sections

Time Table for each Faculty

Physical timetable for each lab

BLOCK DIAGRAM



MODULE DESIGN:

MODULE 1:

The first module of the project is dealing with input. This module gives details, theory and lab course details. This module deals with the creation of function which stores the input in a array of structures.

MODULE 2:

This part deals with scheduling of the classes, faculties and physical lab time tables. Suitable timetables are allocated based on given courses, faculties and lab sessions.

MODULE DESIGN:

MODULE 3:

The final module deals with files. In this part the scheduled time tables are written to a text files.

The Class timetables, Faculty Timetables and the physical lab timetables gets displayed in the file.

All the modules are done using only the fundamentals of C

CONSTRAINTS:

Maximum of 3 hours allotted for a faculty in a day.

No repetition of classes other than labs.

All he lab sessions are allotted in the Afternoon.

Maximum 3 special classes in a week.

Consecutive classes should not be allotted for a faculty.

Maximum of 2 sections have common lab

There should be 6 classes per day for a total of 5 days per week.

REFERENCES:

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