

An Algorithm For Timetable Scheduling

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Abstract: It is a fact that the timetable designing is a difficult process in educational institutions and it is too hard and so complex where there is the faculty is not working at the basis of fixed timings, courses are offered at different times periods in different days. I have developed an algorithm to design timetable using 6 variables as $a(s, c, r, t, d)$. The proposition $a(s, c, r, t, d)$ states that Teacher a , teaches Subject s in class c in room r at time t on the day d .

This algorithm has three phases.

1. Build dynamic structure (matrix/table) for a class and mark Title and Captions.
2. Select a perfect available teacher for the particular subject according to teacher's expertise in the subject and according to his/her available time.
3. The selected data arrange into the matrix according to time priority of teachers and availability of room.