Time tabling: defining the relevant columns we need w.r.t students and courses(schema)

Student table:
Columns

1) Student id: we use this column to identify an individual.

2) Course preference: this column specifies the individual's course preferences. Either this column can be multivalued or we can have separate columns specifying course preference 1,course preference 2 etc.

3) Total time for lectures: The amount of total lecture time shouldn't exceed n no. of hours a day or week (where n is specified by the students or by the consensus by a group of students and university).

Courses table:
Columns

1) Course id: will be used to identify a course

2) Lecture hours: the no. of lecture hours we need for the course(per week or per day).

3) Course strength: the no. of students that have taken the specified course.

4) Lecture halls: the places which satisfy the relevant hard constraints so the lecture for a specified course can happen at that place.

Teachers table:
Columns

1) Teacher id: will be used to identify a teacher.

2) Lecture hours: no. of lecture hours a teacher is ready to take in a week.

3) Courses: no. of courses that a teacher takes in a semester.