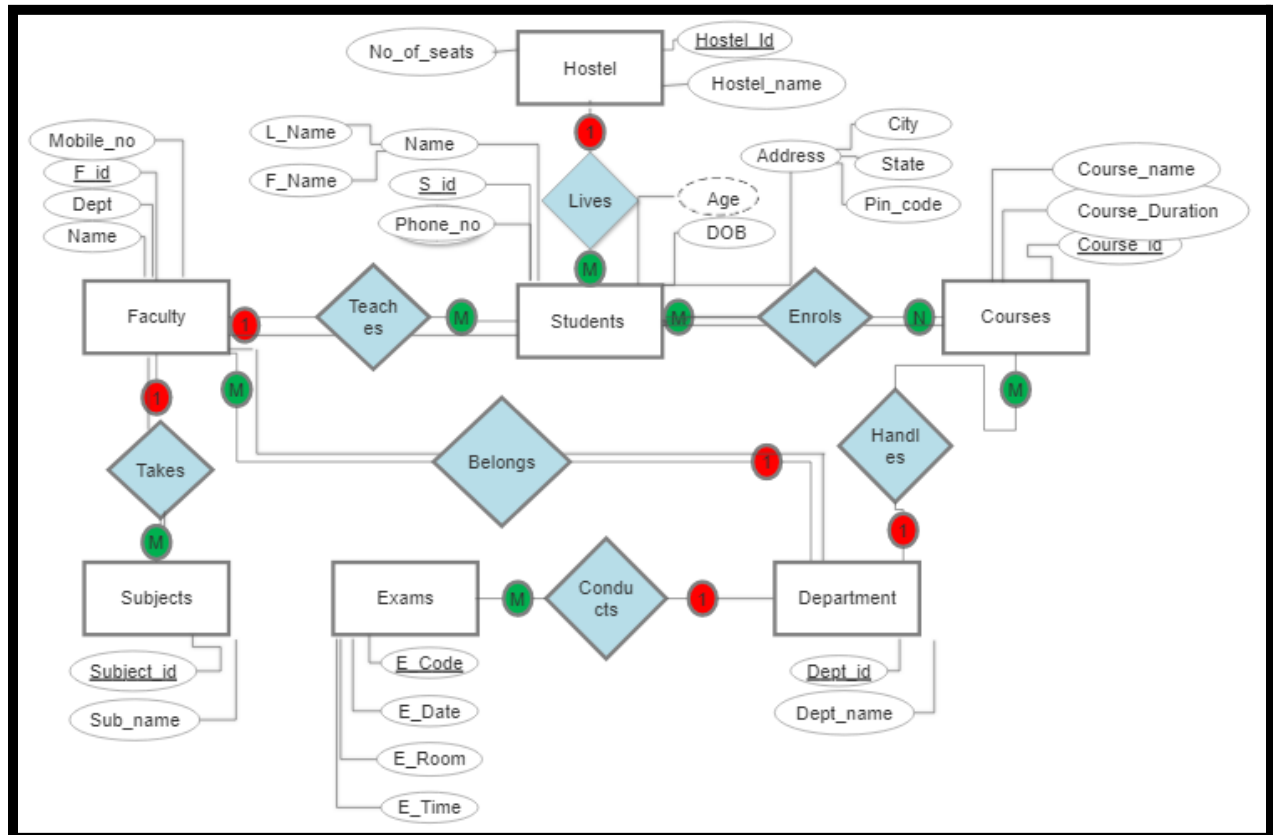# ERD for College Management System

Meaning of ER Diagram - Entity Relationship Diagram (ERD) is a visual representation of different entities within a system and how they relate to each other.

Shapes used in ER diagram

Rectangle - Entity
Eclipse - Attributes
Diamond - Relationship

Single line - partial participation
Double line - Total Participation

My Perspective statement:-

In the above ER diagram you can easily see the relationship between entities and software of college management database

In my ER Diagram there are 7 entities:
1) Hostel
2) Faculty
3) Students
4) Courses
5) Subjects
6) Exams
7) Departments

Relationships Between entities

1) Student **Enrolls** courses
2) Department **Handles** courses
3) Faculty **Teaches** Students
4) Faculty **Takes** Subjects
5) Department **Conduct** Exams
6) Student **Living** Hostel
7) Faculty **belongs** to department

Primary Keys

1) faculty_id
2) Student_id
3) Course_id
4) Subject_id
5) E_code
6) Dept_id

Cardinality Ratio

1) Department - many courses, many exams, many faculties, many students
2) Faculty - single department , many subject, many students
3) Student - many courses, single hostel, many exams
4) Hostel - many students
5) Courses- One department, one exam, many students
6) Exam - many Departments, many students