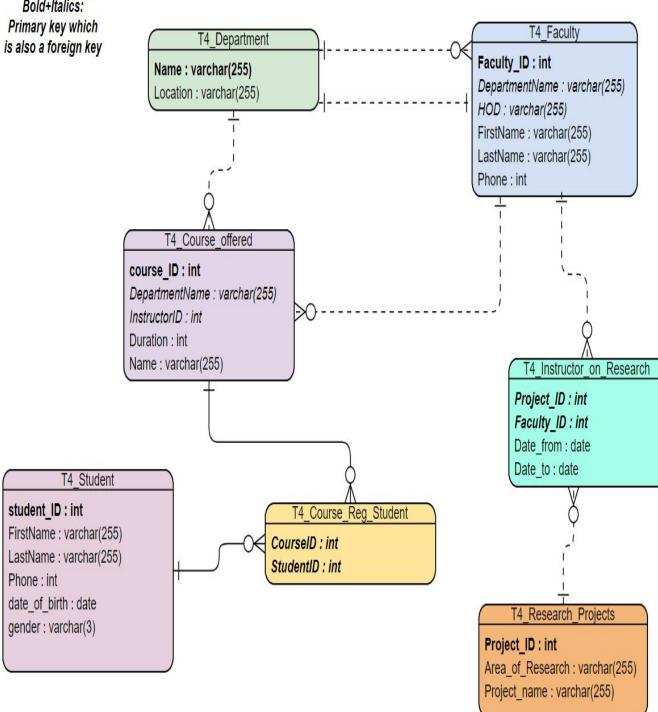
Bold: Primary key Italics: Foreign Key Bold+Italics:



EXPLANATION OF ER DIAGRAM:

Entity Name	Attributes	Primary Key	Foreign Key	Relationship	Entity Type
T4_Department	>Name >Location	Name		T4_ Faculty (One to many) T4_ Faculty (One to one) T4_Course (One to many)	Strong entity because each department name is unique, has a primary key. Also it is not dependent on any other attribute.
T4_Faculty	>Faculty_ID >DepartmentNa me >HOD >FirstName >LastName >Phone	Faculty_ ID	>DepartmentName >HOD	T4_Department (Many to one) T4_Department (One to one) T4_Course_offered (One to many) T4_Instructor_on_R esearch (one to many)	Strong entity because each instructor id is unique, has a primary key.
T4_Course_ offered	>Course_ID >DepartmentNa me >InstructorID >Duration >Name	Course_ ID	>DepartmentName >InstructorID	T4_Department (Many to one) T4_Faculty (Many to one) T4_Course_Reg_Stu dent (one to many)	Strong entity because each course id is unique.
T4_Student	>ID >FirstName >LastName >Phone >date_of_birth >gender	ID		T4_Course_Reg_Stu dent (One to many)	Strong entity because each student id is unique.

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T4_Course_Reg _Student	>CourseID >StudentID	>Course ID >Studen tID	>CourseID >StudentID	T4_Course_offered (Many to one) T4_Student (Many to one)	Weak entity because it isn't unique (each student can have multiple courses and vice versa) and is dependent on T4_Student
T4_Instructor_ on_Research	>ProjectID >Faculty_ID >Date_from >Date_to	>Project ID >Faculty _ID	>ProjectID >Faculty_ID	T4_Faculty (Many to one) T4_Research_Projec ts (Many to one)	Weak entity because it isn't unique (each faculty can have multiple projects and vice versa). Also doesn't have a primary key.
T4_Research_ Projects	>Project_ID >Area_of_Resea rch >Project_name	Project_ ID		T4_Instructor_on_R esearch (One to many)	Strong entity because each project id is unique, and has a primary key