Title: **Course Registration**

**Problem Statement**

An Online Course Registration system for University is to be developed with

a front-end web interface and a back-end database.

Any Database system can be chosen as the backend such as Oracle, My SQL….etc.

**Description:**

* Each student has unique ID and profile. The profile includes first and last name, Gender, DOB, Address, Branch, Program, Enrolled year, Username and may have a picture. Other necessary information can be added to it.
* Each instructor has a unique faculty ID and a profile. The profile must indicate the instructor’s department(s). An instructor **may work** at **more than one** Department.
* A department has a unique department ID, Subject name and list of faculties.
* Each course has a course number, an instructor, given department, term, credits, classroom, periods, prerequisite courses, textbooks..etc.
* Maintain all the courses a student has registered. This is used to check course prerequisites when registration.
* Students may login (with username and password) to the system to register courses or retrieve all the courses they have already taken/registered.
* Instructors may login (with username and password) to the system to **add courses** or update the courses they have already given/added.
* A Student cannot register a course if
* He/She doesn’t meet the prerequisites.
* The student registered in the course exceed the capacity of classroom
* The course has a time conflict with other courses in the same term
* An Instructor cannot add a course if
* The classroom has occupied by another course in the same period
* He/She has another course in the same period
* He/She is not afflicted to the department of this course
* Student may get all the courses given by the department, an Instructor
* There can be arbitrary no of Courses/Students/Instructor/Department/Classrooms etc…