



## **Problem Statement: Database Design for University Registration System**

Design a robust database system that supports the storage and retrieval of university-related data, ensuring accurate student records, seamless course registration, and optimal administrative processes.

### **Key Requirements:**

#### **1. Student Information:**

Capture and store essential student details such as student ID, name, contact information, and academic program.

#### **2. Course Information:**

Design tables to store course details, including course codes, names, credit hours, and instructors.

#### **3. Enrolment Records:**

Create tables to manage enrolment records, linking students to specific courses, recording enrolment status, and grades.

#### **4. Faculty Information:**

Capture and manage information about faculty members, including names, contact details, and academic departments.

#### **5. Academic Programs:**

Design tables to store information about academic programs, including program codes, names, and requirements.

#### **6. Class Schedules:**

Implement tables to handle class schedules, connecting courses with specific time slots, days, and locations.

#### **7. Prerequisites :**

Create tables to manage prerequisites for courses to ensure proper academic progression.

### **Deliverables:**

1. ER diagram
2. Database design
3. Tables with at least 10 records