****

**UNIVERSITY RESGISTRAR**

**PROJECT PROPOSAL**

**PROBLEM STATEMENT:**

A University is a huge ground of students, staffs, courses, and projects. All of these are connected to each other and need to work hand in hand. There comes a huge amount of data. Most of the universities and colleges save the data in excel sheets or just a book registry. The issue here is, less availability of information than its overabundance, and access to quality information for diverse users and uses. The challenge is to refine what is useful out of the huge quantity of information available: to retrieve, store, calculate, alter, explain, and present information in all its forms like text, and numeric data.

**SOLUTION STATEMENT:**

The goal is to not provide simply data but, information that enhances understanding. The database will provide us with information about students, staff, courses and projects. It will let the university know about the staff members available, courses that each staff member is teaching and the timings. The database will help university to sort and categorize data as per courses, students and project interest.

The database will have the data of all the students and staff. The university can use the data to determine information like: student biographic information, students allocated to particular course, staff availability, course timings, staff information, and projects of research. The database will provide a framework to the user through describing the high level components and architecture, sub systems, interfaces, database design.

**ENTITIES**:

1. **STUDENT**: The primary key here is student\_id and then comes first name, last name and other basic information.
2. **STAFF**: The staff will have primarily staff\_id, and then the basic biographic information. The staff will have a relationship with courses and projects.
3. **COURSE OFFERED**: Courses will have course id and will be connected to staff at side end and will be connect to another table of course\_schedule on another side.
4. **RESEARCH PROJECT**: The Research project will have project\_id, name and details about the project.
5. **COURSE\_SCHEDULE**: This table will be responsible for course timings and days of week when the course will be taught.
6. **AREA OF RESEARCH**: The area of research table will collect the information about the area in which a staff member is interested and details about it.

**USE CASE:**

1. We can know the schedule of the student by knowing the student ID and course ID.
2. We can also retrieve the data of staff members interested in particular research work.