Punjab University College of Information Technology (PUCIT)

Project Title:

Course Registeration System

Course Title:

Software Engineering

Course Instructor:

Prof. Anzar Ahmed

Team Members:

Name	Roll Number
Fiza Majeed	BITF24M007
Mahnoor Ghani	BITF24M013
Abriza Amin	BITF24M017

Functional Requirements

Main Menu Navigation

➢ The system shall provide a main menu with different buttons to access Student Management, Course Management, and Course Registration modules.

Student Management

➢ The system shall allow the user to enter student information, including Student ID, Student Name, etc.
➢ The system shall allow adding new student details using input fields.
➢ The system shall display all student information in a table format.
➢ The system shall provide **Clear** and **Back** options for ease of use.

Course Management

➢ The system shall allow the user to add course information.
➢ The system shall display all available courses in a table format.
➢ The system shall provide options to **clear** entered data and return to the main menu.

Course Registration

➢ The system shall allow the selection of students and courses through drop-down lists.
➢ The system shall simulate course registration via a graphical interface.
➢ The system shall display a confirmation message after a course is successfully registered.

View Registration

➢ The system shall display registered course information in a table format.
➢ The system shall show student names along with course codes and course titles.
➢ The system shall provide a visual overview of all course registrations.

Non-Functional Requirements

Usability

➢ The system shall provide an intuitive and user-friendly GUI using Java Swing.
➢ The interface shall allow easy navigation between modules and screens.

Performance

➢ The system shall respond to user actions without noticeable delays.
➢ The system shall efficiently display data of students, courses, and registrations.

Reliability

➢ The system shall maintain accurate display of student, course, and registration data.
➢ The system shall prevent duplicate entries in the registration process.

Maintainability

➢ The system shall follow modular design principles to allow easy updates.
➢ The code shall be readable and follow standard Java Swing programming practices.

Portability

➢ The system shall be executable on any computer that has a Java Runtime Environment installed.