



**Department of Computer Science**

**Quaid-e-Azam University, Islamabad**

**Assignment 2**

**Student Course Registration System**

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| Use case Diagram | **Student Course Registration System** |
| Created by | Group 8 |
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## UML Diagram

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|  | The purpose of this use case diagram is to provide a visual representation of the functional requirements and interactions between users (actors) and the Student Course Registration System, as outlined in Case Study #3. It identifies key actors, their primary use cases, and the relationships between them.This use case diagram was designed using Argo UML, a UML modeling tool, to adhere to ensure clarity in system design. It serves as a foundational blueprint for upcoming development phases. |

## 

## Actors and Use Cases

1. **Student**

* *Login (Authenticates Student access to the system.)*
* *Register Courses (Sign up for the courses being offered)*
* *Includes: Check Prerequisites (automated validation to ensure eligibility) (Mandatory step).*
* *View Courses (View the courses registered by the student)*
* *Extends: Edit Courses (viewing courses lead to editing registrations, e.g., dropping/adding) (Optional).*
* *View Academic Progress (Tracks passed/failed courses and remaining requirements.)*

1. **Time Table Coordinator**

* *Login (Authenticates Time Table Coordinator access to the system).*
* *Check Timetable Conflict (Identifies scheduling overlaps).*
* *View Course Registrations (Monitors enrollments for timetable planning).*
* *Change Class Schedule (Adjusts course timings to resolve conflicts).*

1. **Course Coordinator**

* *Login (Authenticates Course Coordinator access to the system).*
* *Add New Semester (Initializes a new academic period).*
* *Offer Courses (Adds new courses for the semester).*
* *Upload Scheme of Study (Defines course weightage and prerequisites for student batches).*
* *Edit Courses (Change courses being offered)*
* *Includes: Change Prerequisites (modify course dependency rules).*
* *View Registrations (Checks enrollment statistics).*
* *View Student Progress (Monitors individual student performance (passed/failed courses)).*
* *Generate Student Academic Report (Creates CSV/pdf reports of student’s academics)*

**Roles:**

* *Students: focus on enrollment and progress tracking.*
* *Timetable Coordinators: manage scheduling conflicts.*
* *Course Coordinators: handle academic rules, prerequisites, and reporting.*