

# Academic System Documentation

## 1. Introduction

This system is designed to support university students, instructors, and administrative departments in managing academic and financial operations. It enables students to register, add, or delete courses, view grades, and handle tuition payments. Instructors can manage grades and view student lists, while administrators and finance departments can monitor billing and student records efficiently.

## 2. Objectives

- Facilitate course management for students during the registration period.
- Provide secure access and authentication for all users (students, instructors, admins).
- Automate grade management and publication by instructors.
- Simplify payment processes and financial tracking through cash or visa methods.
- Maintain accurate and up-to-date student records within the system.
- Ensure prerequisite validation and enforce course limits (min 4 – max 7).

## 3. Functional Requirements – Students

- Login and credential verification.
- Add or delete courses with rule validation.
- View grades.
- Pay bills using Cash or Visa.
- Edit personal and account information.

## 3. Functional Requirements – Instructors

- Add, edit, or publish student grades.
- View the registered students for each course.

### **3. Functional Requirements – Finance Department**

- Handle payments and confirm transactions.
- Generate and review billing reports.

### **3. Functional Requirements – Admin**

- Maintain student records.
- Oversee system operations and permissions.

## **4. Non-Functional Requirements**

- Security: Authentication required for all users.
- Performance: System must support heavy traffic during registration.
- Usability: Simple UI for all user types.
- Availability: 24/7 access.
- Reliability: Data consistency guaranteed.
- Scalability: System supports future growth.
- Maintainability: Easy updates to rules and configurations.