University Result Management System (URMS)

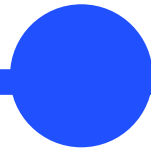**A comprehensive system to modernize academic record management.**

Transforming Academic Management

The University Result Management System (URMS) is a powerful desktop application designed to automate and streamline the entire process of managing student results, academic records, and examination procedures.
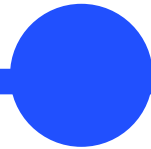
Centralized Platform

URMS serves as a unified hub for Administrators, Teachers, and Students, facilitating efficient handling of academic data. This integration dramatically reduces manual errors and ensures robust data integrity across the institution.
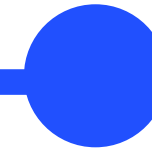
Core Objectives of URMS

Digitization

Transition from cumbersome paper-based record keeping to a secure, modern digital database.

Accuracy

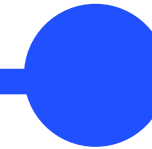**Automate GPA/CGPA calculations, virtually eliminating human error in grading processes.**

Accessibility

Provide secure, role-based access to Students, Teachers, and Administrators, ensuring relevant data is available to the right people.
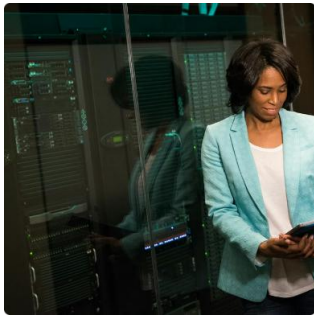
Efficiency

Streamline the entire result declaration process, from initial marks entry to final publication, saving valuable time.

Key Features: Role-Based Access Control

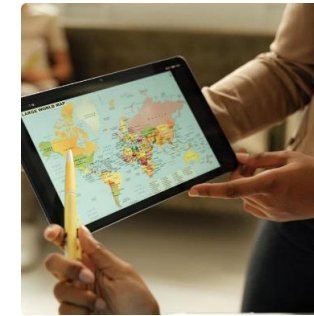### Administrator Access

Full control over the system, including managing students, teachers, courses, subjects, and approving final results.

Teacher Access

Restricted access to assigned courses, allowing them to accurately enter and update marks for their students.

Student Access

Read-only access to securely view personal results, grade history, and update profile details.

Key Features: Course & Student Management

Efficiently manages the academic journey of every student and the structuring of all courses.

- **Student Lifecycle: Seamless handling of student registration, semester progression, and comprehensive profile management.**
- **Course Mapping: Dynamic assignment of courses to specific departments and semesters for accurate academic structuring.**
- **Attendance & Leave: Integrated modules to meticulously track both student and teacher attendance, as well as manage leave requests.**

Key Features: Dashboard & Analytics

Gain actionable insights with comprehensive visual data.

Student Counts

Overview of student enrollment numbers.

Department Insights

Detailed analytics on departmental performance.

Performance Graphs

Visual representations of grade distributions and trends.

"At-Risk" Students

Quick identification of students needing academic intervention.

Deep Dive: Marks Distribution & Result Management

This is the core of URMS, handling the complex logic of grading and result processing with precision.

Marks Entry Interface

- **Search & Load: Teachers can easily search for students by Registration Number, automatically loading current semester and enrolled courses.**
- **Dynamic Grading: Input fields are dynamically generated for each course, streamlining the grading process.**
- **Grading Scale: Supports a standardized GPA scale (e.g., 4.00, 3.75, 3.00, ... 0.00) for consistent evaluation.**
- **Validation: Built-in checks prevent invalid data entry and ensure all courses are graded before submission.**

Automated Calculation Logic

- **Immediate Feedback: Calculates SGPA and CGPA in real-time as marks are entered.**
- **Credit Tracking: Monitors total credits earned versus failed courses.**
- **Promotion Logic: Automatically determines student promotion based on pass/fail criteria.**

Deep Dive: Result Approval & Viewing

Ensuring accuracy and transparency throughout the result declaration process.

Result Approval Workflow

- **Draft Stage: Teachers input marks, which are stored in a raw format.**
- **Review Stage: Administrators review pending results via a dedicated dashboard.**
- **Approval: Upon approval by an Administrator, results become official and visible to students.**

Result Viewing (Student Side)

- **Secure Access: Students can only view results specific to their registration number, ensuring privacy.**
- **Semester Filtering: Ability to easily toggle between current and past semester results for a complete academic overview.**
- **Visual Marksheet: Displays Course Code, Name, Credit, and Obtained Grade in a clear, tabular format for easy comprehension.**

Interface of Teacher entering marks

Enter Student Marks

Enter Student Marks

Search by Registration No: 2026-331-001   **Search**

Name:	Saim	Registration No:	2026-331-001
Department:	CSE	Current Semester:	3

Database Management Systems (3.0 cr)	3.75
DBMS Lab (2.0 cr)	4.00
Design and Analysis of Algo... (3.0 cr)	4.00
Digital Logic Design (3.0 cr)	4.00
Technical English (3.0 cr)	Select
Object Oriented Programming (3.0 cr)	Select
OOP Lab (2.0 cr)	Select

Semester CGPA:		Cumulative CGPA:	3.79
Failed Courses:	0	Failed Credits:	0.0

Submit   Cancel

Interface of Admin approving marks

Approve Student Results

☐ Approve Student Results — □ ☐ ✕

Approve Student Results

☐ Select All

Select	Student ID	Subject Code	Marks	Grade	Status	Semester	Year	Exam Type
☐	2026-331-001	DBMS31	85.00	A	PASS	3	2026	Regular
☐	2026-331-001	DBMS32	95.00	A+	PASS	3	2026	Regular
☐	2026-331-001	DSA31	95.00	A+	PASS	3	2026	Regular
☐	2026-331-001	ELEC31	95.00	A+	PASS	3	2026	Regular
☐	2026-331-001	ENG31	95.00	A+	PASS	3	2026	Regular
☐	2026-331-001	OOP31	95.00	A+	PASS	3	2026	Regular
☐	2026-331-001	OOP32	95.00	A+	PASS	3	2026	Regular
☐	2026-331-001	STAT31	95.00	A+	PASS	3	2026	Regular

Approve Selec...   Refresh   Cancel   Loaded 8 pending result(s)

Interface of student requesting for recheck

Recheck / Re-evaluation Request

Request Recheck / Re-evaluation

Request Type: `RECOUNT` ▼   Reason: `please check my paper`   **Submit Request**

> RECOUNT
> REEVALUATION

Subject Code	Marks	Grade	Grade Point	Status	Semester	Year	Exam Type
BE11	85.00	A	3.70	PASS	1	2026	Regular
BE12	75.00	B+	3.30	PASS	1	2026	Regular
BENG11	95.00	A+	4.00	PASS	1	2026	Regular
BENG12	95.00	A+	4.00	PASS	1	2026	Regular
BPHY12	0.00	F	0.00	FAIL	1	2026	Regular
DM11	85.00	A	3.70	PASS	1	2026	Regular
LA11	95.00	A+	4.00	PASS	1	2026	Regular
SPL11	95.00	A+	4.00	PASS	1	2026	Regular
SPL12	95.00	A+	4.00	PASS	1	2026	Regular

Refresh   Close

Interface of admin approving request of recheck & forwarding to teacher

Interface of teacher proposing new marks after recheck / re-evaluation

Interface of admin approving new proposed results

Recheck Requests (Admin)

Recheck / Re-evaluation Requests - Admin

View: TEACHER_REVIEWED ▼   Refresh

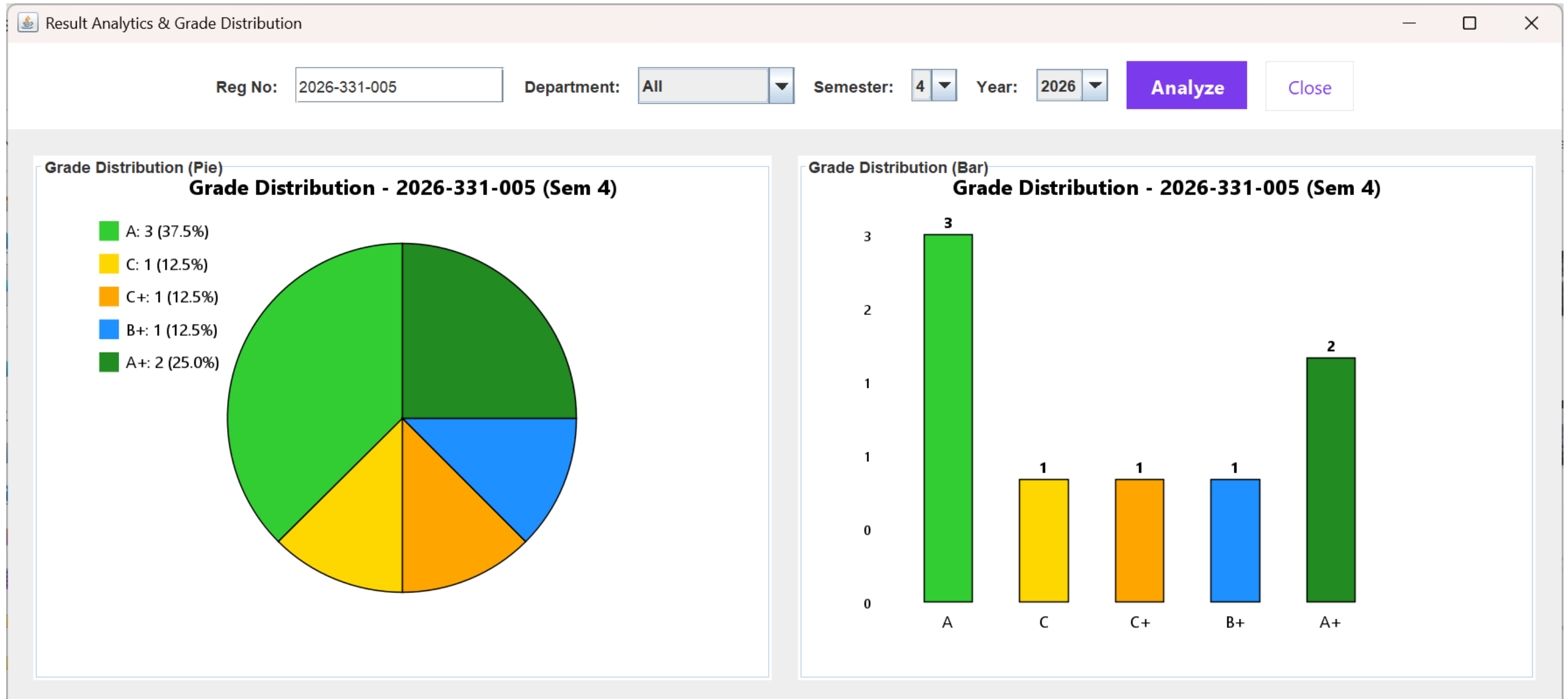| Student	Subject	Sem	Year	Type	Status	Reason	Teacher No ...	Proposed ...	Proposed G...	Admin Co...	Teacher Co...
2026-331-007	BPHY12	1	2026	RECOUNT	TEACHER_RE...	please check ...	false	95.0	A+	kindly have a l...	done

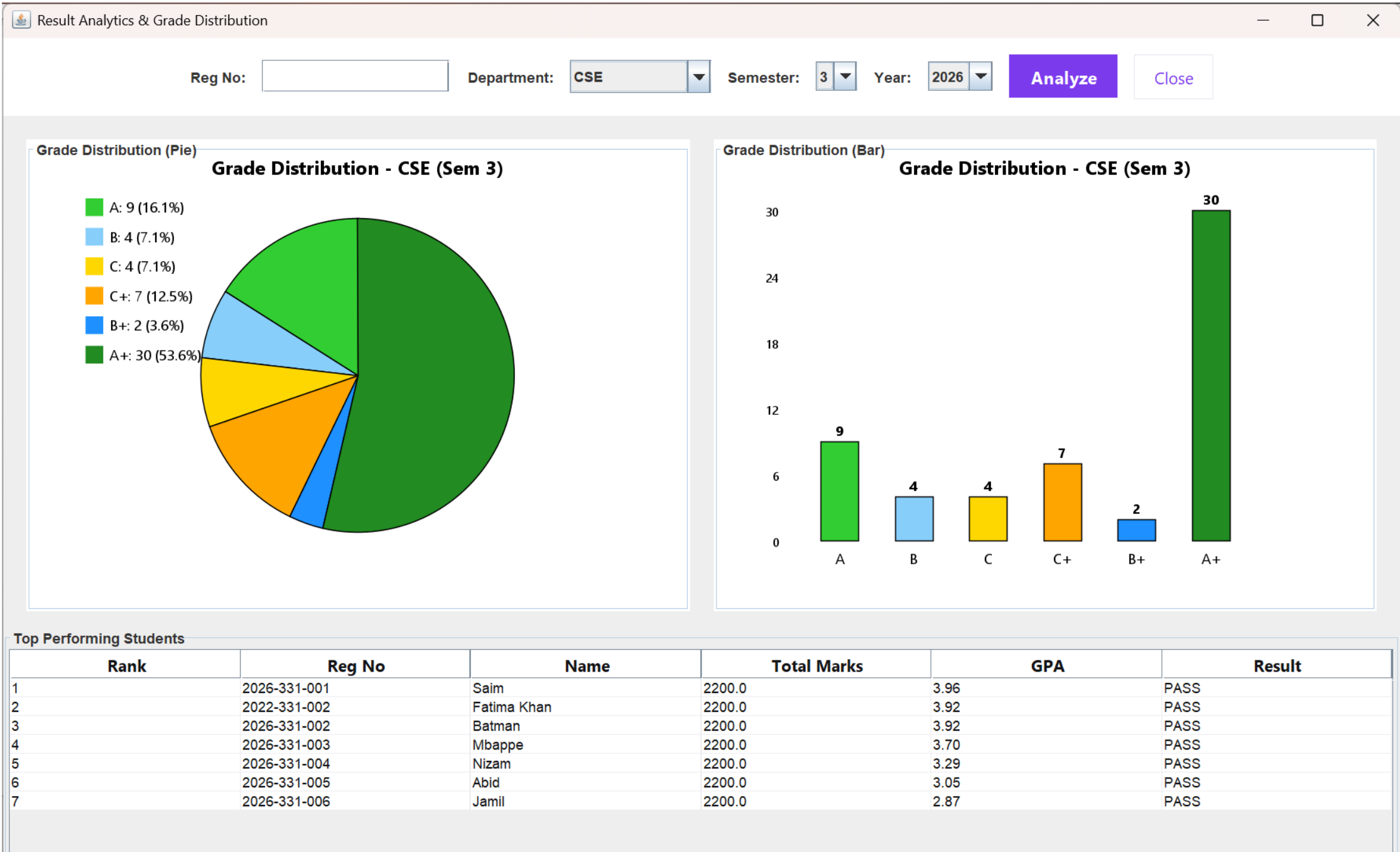Forward to Teach...   Reject   Final Approve & Ap...   Close

Insights & Student Performance Analytics

- **Visualizes Academic Trends: Uses dynamic Pie and Bar charts to display grade distributions across departments and semesters.**

- **Identifies At-Risk Students: Automatically flags students with failing grades (CGPA < 2.50) or consecutive failures for early intervention.**

- **Tracks Progression: Monitors individual student performance with semester-wise SGPA and cumulative CGPA tracking.**

- **Data-Driven Decision Making: Provides faculty with actionable insights on course difficulty and student success rates.**
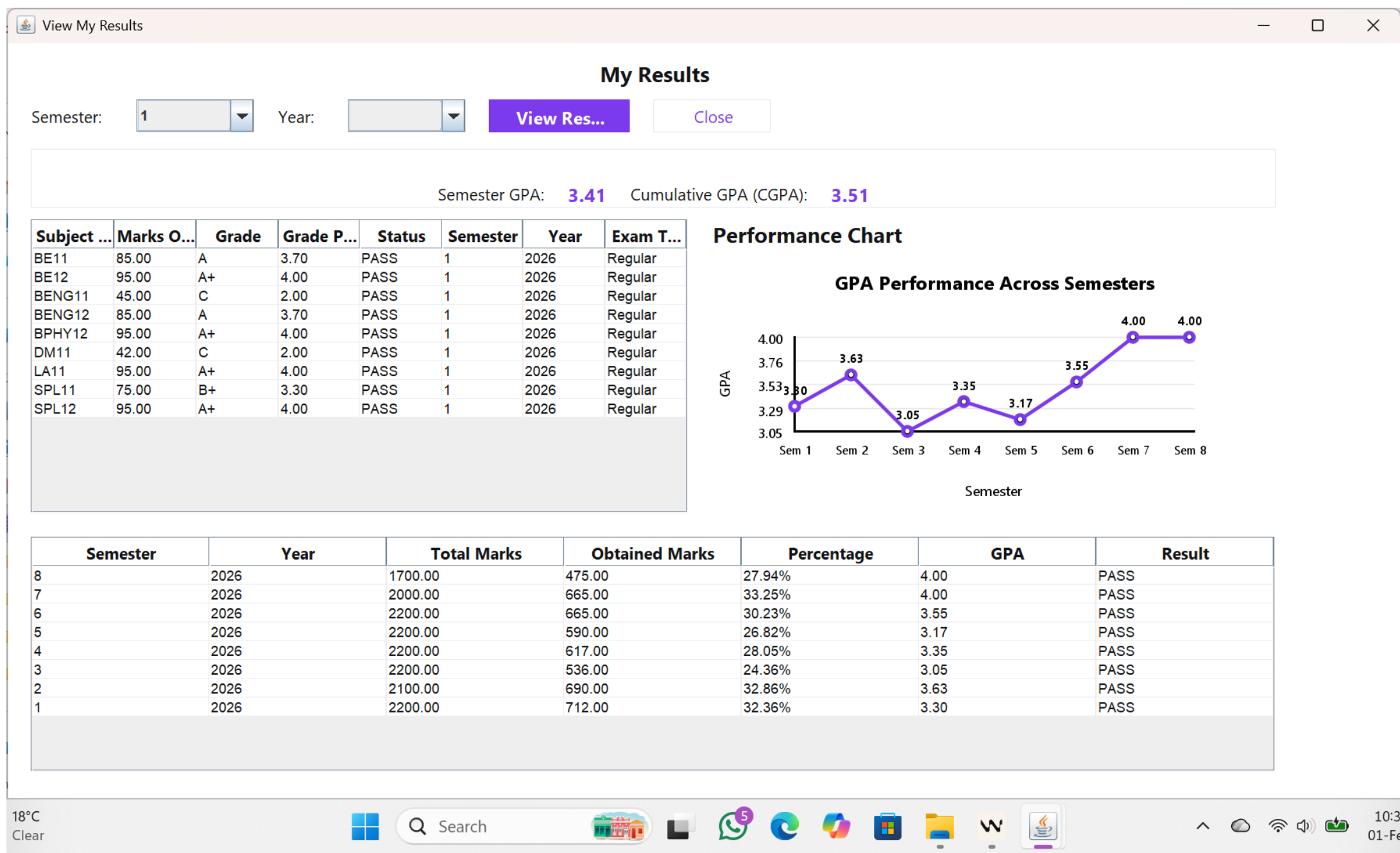
Interface of result analytics & grade distribution of student

Interface of result analytics & grade distribution of a department

Interface of student's performance analysis across semesters

Interface of printing result sheet

View Student Marks

View Student Marks

Print   Cancel

7 ▼   Registration: 2026-331-005

Semester	Course Code	Course Name	Credit	Grade
7	CLOUD71	Cloud Computing II	3.0	4.00
7	DS71	Data Science	3.0	4.00
7	ENG71	Professional Ethics	2.0	4.00
7	IOT71	IoT	3.0	4.00
7	IOT72	IoT Lab	2.0	4.00
7	PROJECT71	Major Project I	4.0	4.00
7	WEB71	Advanced Web Tech	3.0	4.00

Print

General Page Setup Appearance

Print Service

Name: Microsoft Print to PDF ▼ Properties...

Status: Accepting jobs

Type:

Info: ☐ Print To File

Print Range

◉ All

○ Pages 1 To 1

Copies

Number of copies: 1

☐ Collate

Print   Cancel

Interface of student's certificate with downloading option

Interface of At-Risk students dashboard

At-Risk Students Dashboard

Department: **CSE** ▾   Risk: **ALL** ▾   **Refresh**   Close   **Loaded 16 students**

Reg	Name	Dept	Current Sem	CGPA	Last GPA	Prev GPA	Fails (Last 2)	Risk	Reasons
2020-331-005	new01	CSE	8	0.00			0	LOW	No major risk sign...
2020-331-006	tanu	CSE	1	0.00			0	LOW	No major risk sign...
2021-331-002	Vinicius	CSE	1	0.00			0	LOW	No major risk sign...
2022-331-001	Mahira	CSE	4	0.00			0	LOW	No major risk sign...
2022-331-002	Fatima Khan	CSE	4	3.92	3.92		0	LOW	No major risk sign...
2022-331-003	Hamza	CSE	2	3.70	3.70		0	LOW	No major risk sign...
2022-331-004	NOWMI	CSE	1	0.00			0	LOW	No major risk sign...
2023-331-001	Maisha	CSE	3	0.00			0	LOW	No major risk sign...
2024-331-001	Iqbal	CSE	2	0.00			0	LOW	No major risk sign...
2026-331-001	Saim	CSE	8	3.92	4.00	3.97	0	LOW	No major risk sign...
2026-331-002	Batman	CSE	6	3.69	3.90	3.56	0	LOW	No major risk sign...
2026-331-003	Mbappe	CSE	6	3.58	3.18	3.44	0	LOW	No major risk sign...
2026-331-004	Nizam	CSE	6	3.78	3.96	3.88	0	LOW	No major risk sign...
2026-331-005	Abid	CSE	8	3.38	4.00	4.00	0	LOW	No major risk sign...
2026-331-006	Jamil	CSE	5	3.04	2.75	2.96	0	LOW	No major risk sign...
2026-331-007	Nadim	CSE	2	3.14	2.70	3.87	0	MEDIUM	GPA drop >= 0.50;

Future Scope & Enhancements

Payment Gateway Integration

Seamless integration for processing student fee payments directly through the system, enhancing convenience.

SMS/Email Alerts

Automated notification system for result declarations, examination schedules, and other important academic updates.