



# Routine Management

**Presented By**

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# Our Team

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# Introduction

The Routine Management is a dynamic web-based platform designed for JU CSE Department to simplify the conflict-free scheduling, real-time updates, and easy access of academic class schedules for stakeholders- Students, Monitor, Teachers .The system provides pre-scheduling, rescheduling, and cancellation of online and offline classes within predefined time slots, with role-based access and a user-friendly interface for tracking and managing class schedules.

# Overview

The Routine Management project is a responsive, real-time, and secure platform designed to provide students with open access to semester-wise weekly class schedules for both online and offline modes. It offers teachers authenticated access to manage assigned courses, including class cancellation and rescheduling, and allows monitors to track class conduct status and maintain course-wise statistics efficiently.



# Purpose

The Purpose of the project is to streamline and digitize the scheduling, tracking, and management of academic classes for students, teachers, and administrators in an efficient and accessible manner.

01



## Objective 01

To provide students with real-time access to semester-wise weekly class schedules without requiring authentication.

02



## Objective 02

To enable teachers to manage their assigned courses, including rescheduling and cancelling classes, with conflict checks

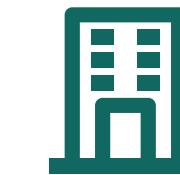
03



## Objective 03

To allow academic monitors to track class status updates, including conducted, missed, and rescheduled sessions

04

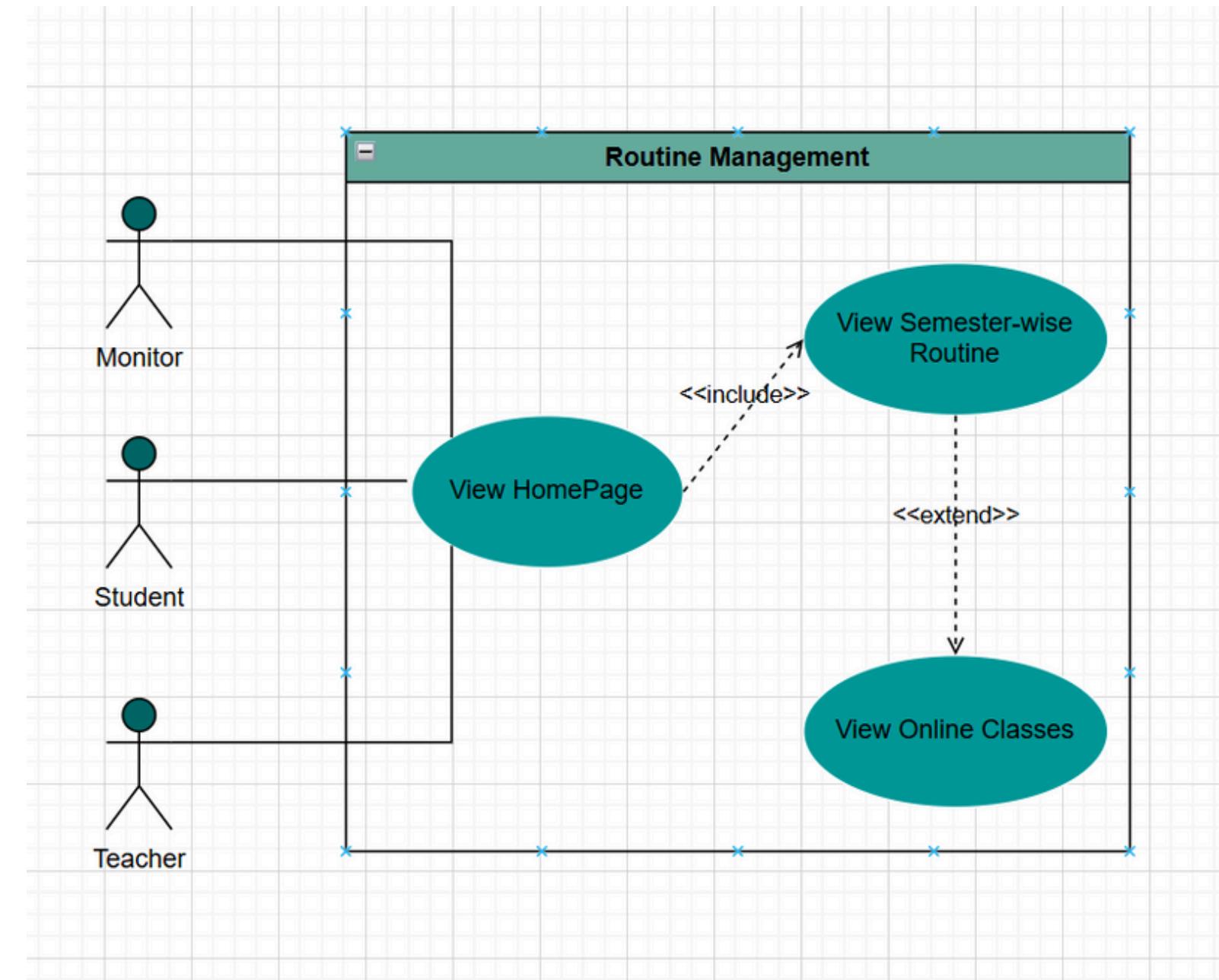


## Objective 04

To maintain accurate course-wise statistics for better academic planning and transparency

# Use Case Diagram(1)

- one-stop solution
- Anyone can view weekly routines without authentication



# Routine Home Page

Class Routine

Logout



Select a Routine

1-2

2-1

3-1

3-2

4-2

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# View Semester-wise Weekly routine

## Routine for Batch 3-2

Day / Time	9:00 a.m. - 10:20 a.m.	10:25 a.m. - 11:45 a.m.	11:50 a.m. - 1:10 p.m.	2:00 p.m. - 3:20 p.m.	3:25 p.m. - 4:45 p.m.	<a href="#">View Online Classes</a>
<b>Sunday</b> Jun 22, 2025	<b>CSE 357</b> Israt Jahan Room: 202	<b>CSE 353</b> Sansun Nahar Khandakar Room: 103	<b>CSE 355</b> Bulbul Ahammad Room: 102	—	<b>BIS 351</b> Md Rubel Room: 101	<a href="#">View Classes</a>
<b>Monday</b> Jun 23, 2025	<b>BIS 351</b> Md Rubel Room: 101	<b>CSE 359</b> Imdadul Islam Room: 102	—	—	—	<a href="#">View Classes</a>
<b>Tuesday</b> Jun 24, 2025	—	<b>CSE 359</b> Imdadul Islam Room: 101	<b>CSE 353</b> Sansun Nahar Khandakar Room: 103	<b>CSE 360</b> Imdadul Islam Room: 203	—	<a href="#">View Classes</a>
<b>Wednesday</b> Jun 25, 2025	<b>CSE 357</b> Israt Jahan Room: 202	<b>CSE 362</b> Abu Sayed Md.Mustafizur Rahanman Room: 203	<b>CSE 355</b> Bulbul Ahammad Room: 102	—	—	<a href="#">View Classes</a>
<b>Thursday</b> Jun 26, 2025	—	<b>CSE 358</b> Md. Golam Moazzam Room: 203	—	—	—	<a href="#">View Classes</a>
<b>Friday</b> Jun 27, 2025	—	—	—	—	—	<a href="#">View Classes</a>
<b>Saturday</b> Jun 28, 2025	—	—	—	—	—	<a href="#">View Classes</a>

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# View Online Classes

Class Routine

Online Classes on Wednesday (Jun 25, 2025) for Batch 2-1

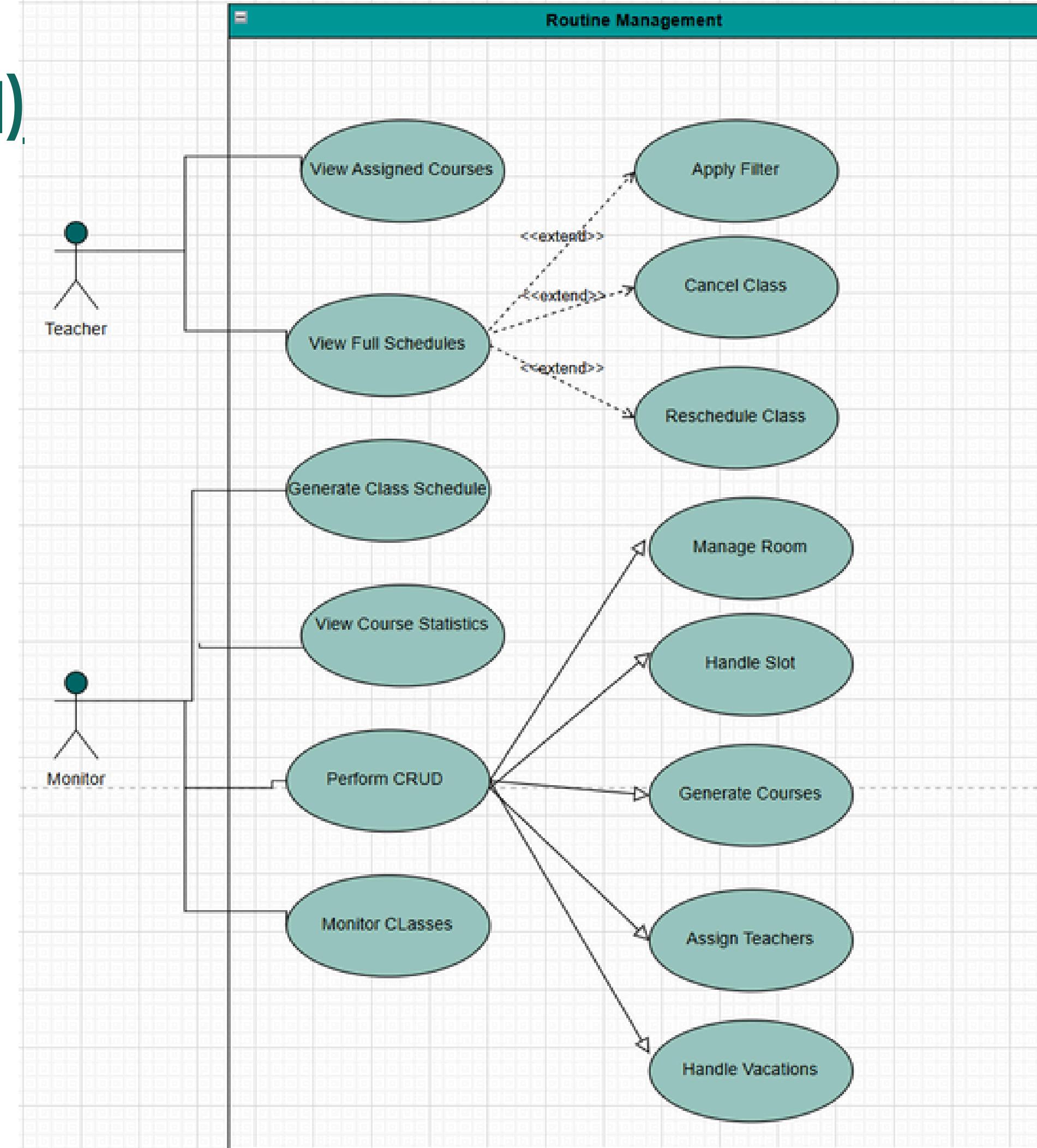
Course	Teacher	Time
CSE 208	Md. Zahidur Rahman	7:00 p.m. - 9:45 p.m.

[Back](#)

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# Use Case Diagram(1)

- Role-based authenticated access for Teachers and Monitors



# Admin Dashboard

Routine

monitor

**Dashboard**

Authentication and Authorization

- [Groups](#) Add Change
- [Users](#) Add Change

Courses

- Courses**
- [Courses](#) Add Change

Routine

- [Rooms](#) Add Change
- [Routines](#) Add Change
- [Slots](#) Add Change
- [Vacations](#) Add Change

Teachers

- [Class schedules](#) Add Change
- [Reschedules](#) Add Change
- [Teachers](#) Add Change

Recent actions

- CSE 453 - Artificial Intelligence by Morium Akter in 102 on Sunday 09:00:00-10:20:00.**
- Added "CSE 453 - Artificial Intelligence by Morium Akter in 102 on Sunday 09:00:00-10:20:00".**
- CSE 353 - Human Computer Introduction by Sansun Nahar Khandakar in 103 on Sunday 10:25:00-11:45:00.**
- Changed Room.**
- CSE 353 - Human Computer Introduction by Sansun Nahar Khandakar in 103 on Sunday 10:25:00-11:45:00.**
- Added "CSE 353 - Human Computer Introduction by Sansun Nahar Khandakar in 103 on Sunday 10:25:00-11:45:00".**

Home Support Users

Search Users... Q

Search Groups... Q

田 田 田

Dashboard

Home > Dashboard

### Authentication and Authorization

- Groups** Add Change
- Users** Add Change

### Courses

- Courses**
- [Courses](#) Add Change

### Routine

- [Rooms](#) Add Change
- [Routines](#) Add Change
- [Slots](#) Add Change
- [Vacations](#) Add Change

### Teachers

- [Class schedules](#) Add Change
- [Reschedules](#) Add Change
- [Teachers](#) Add Change

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# Course Statistics

Routine

monitor

Dashboard

Authentication and Authorization

Groups

Users

Courses

**Courses**

Rooms

Routines

Slots

Vacations

Teachers

Class schedules

Reschedules

Teachers

Home Support Users Search Users... Search Groups... Add course

Courses Home > Courses > Courses

title semester code Search

Go 0 of 43 selected

Title	Code	Semester	Class Stats
Research Project:	CSE 480	4-2	<ul style="list-style-type: none"><li>Total: 0</li><li>Conducted: 0</li><li>Rescheduled: 0</li><li>Cancelled: 0</li><li>Pending: 0</li><li>Missed: 0</li></ul>
IoT Lab	CSE 460	4-2	<ul style="list-style-type: none"><li>Total: 22</li><li>Conducted: 0</li><li>Rescheduled: 0</li><li>Cancelled: 0</li><li>Pending: 22</li><li>Missed: 0</li></ul>
Machine Learning Lab	CSE 458	4-2	<ul style="list-style-type: none"><li>Total: 21</li><li>Conducted: 0</li><li>Rescheduled: 0</li><li>Cancelled: 0</li><li>Pending: 21</li><li>Missed: 0</li></ul>

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# CRUD Operation For SLOT

The screenshot shows a web application interface for managing vacations. The left sidebar contains a navigation menu with items like Routine, monitor, Dashboard, Authentication and Authorization, Groups, Users, Courses, Courses, Routine, Rooms, Routines, Slots, Vacations (which is highlighted in blue), and Teachers. The main content area has a header with Home, Support, Users, and search bars for Users and Groups. Below the header, the page title is 'Vacations' with a breadcrumb trail: Home > Routine > Vacations > Add vacation. The form fields include Start date (2025-10-01, Today), End date (2025-10-08, Today), and Reason (Durga Puja). On the right, there are three buttons: Save (green), Save and add another (teal), and Save and continue editing (teal).

Routine

monitor

Dashboard

Authentication and Authorization

Groups

Users

Courses

Courses

Routine

Rooms

Routines

Slots

Vacations

Teachers

Home

Support

Users

Search Users...

Search Groups...

Vacations

Home > Routine > Vacations > Add vacation

Start date \*

2025-10-01

Today |

End date \*

2025-10-08

Today |

Reason

Durga Puja

Save

Save and add another

Save and continue editing

# Monitor Classes

Routine

monitor

Dashboard

Authentication and Authorization

Groups

Users

Courses

- Courses

Routine

- Rooms
- Routines
- Slots
- Vacations

Teachers

- Class schedules
- Reschedules
- Teachers

Home Support Users Search Users... Search Groups... Add class schedule Generate Class Schedules

Class schedules Home > Teachers > Class schedules

semester course Pending class type teacher

Search 1275 results ( 1299 total )

Go 0 of 100 selected

Delete selected class schedules

Mark selected classes as missed

Mark selected classes as Conducted

Auto-mark missed classes

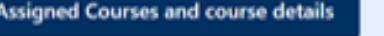
	Teacher	Date	Semester	Start time	End time	Room	Status	Class type	Status	
<input checked="" type="checkbox"/>	Md Rubel	June 22, 2025	3-2	3:25 p.m.	4:45 p.m.	101	Pending	Offline	<input checked="" type="checkbox"/> Mark Conducted	
<input checked="" type="checkbox"/>	Ezharul Islam	Oct. 30, 2025	1-2	10:25 a.m.	1:10 p.m.	302	Pending	Offline	<input checked="" type="checkbox"/> Mark Conducted	
<input checked="" type="checkbox"/>	6: CSE 358 - MAL Lab	Md. Golam Moazzam	Oct. 30, 2025	10:25 a.m.	1:10 p.m.	203	Pending	Offline	<input checked="" type="checkbox"/> Mark Conducted	
<input checked="" type="checkbox"/>	36: CSE 452 - Data Mining and Big Data Analysis Lab	Md. Humayun Kabir	Oct. 30, 2025	4-2	10:25 a.m.	1:10 p.m.	201	Pending	Offline	<input checked="" type="checkbox"/> Mark Conducted
<input checked="" type="checkbox"/>	28: CSE 205 - Numerical Method	Nadia Afrin Ritu	Oct. 30, 2025	2-1	9 a.m.	10:20 a.m.	202	Pending	Offline	<input checked="" type="checkbox"/> Mark Conducted
<input checked="" type="checkbox"/>	40: CSE 457 - Machine Learning	Liton Jude Rozario	Oct. 30, 2025	4-2	9 a.m.	10:20 a.m.	101	Pending	Offline	<input checked="" type="checkbox"/> Mark Conducted
<input checked="" type="checkbox"/>	23: CSE 159 - Object Oriented	Ezharul Islam	Oct. 30, 2025	1-2	9 a.m.	10:20	102	Pending	Offline	<input checked="" type="checkbox"/> Mark

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# Teacher's Dashboard

Welcome, Abu Sayed  
Md.Mustafizur  
Rahanman

Email: asmr@juniv.edu  
Department: CSE  
Designation: Professor



 Upcoming Classes

Subject	Date	Room	Start Time	End Time
CSE 210 - Algorithm_1 Lab	June 22, 2025	203	10:25 a.m.	1:10 p.m.
CSE 309 - Operating System	June 23, 2025	101	11:50 a.m.	1:10 p.m.
CSE 310 - OS Lab	June 23, 2025	203	2 p.m.	4:45 p.m.
CSE 362 - WDP Lab_2	June 25, 2025	203	10:25 a.m.	1:10 p.m.
CSE 309 - Operating System	June 25, 2025	101	11:50 a.m.	1:10 p.m.



# View Assign Courses



## Assigned Courses for Abu Sayed Md.Mustafizur Rahanman

CODE	TITLE	SEMESTER	CONDUCTED	RESCHEDULED	MISSSED	EXPECTED	REMAINING
CSE 362	WDP Lab_2	3-2	0	0	0	21	21
CSE 310	OS Lab	3-1	0	0	0	22	22
CSE 309	Operating System	3-1	0	0	0	43	43
CSE 210	Algorithm_1 Lab	2-1	0	0	1	22	21

[← Back to Dashboard](#)

# View Full Schedule

Dashboard

Logout

## Scheduled classes from Today for Abu Sayed Md.Mustafizur Rahanman

Filter by Course:

-- All Courses --

Filter by Date:

mm/dd/yyyy

Apply Filters

Reset

Course	Date	Room	Time	Actions	
CSE 309 - Operating System	June 23, 2025	101	11:50 a.m. - 1:10 p.m.	<a href="#">Cancel</a>	<a href="#">Reschedule</a>
CSE 310 - OS Lab	June 23, 2025	203	2 p.m. - 4:45 p.m.	<a href="#">Cancel</a>	<a href="#">Reschedule</a>
CSE 362 - WDP Lab_2	June 25, 2025	203	10:25 a.m. - 1:10 p.m.	<a href="#">Cancel</a>	<a href="#">Reschedule</a>
CSE 309 - Operating System	June 25, 2025	101	11:50 a.m. - 1:10 p.m.	<a href="#">Cancel</a>	<a href="#">Reschedule</a>
CSE 210 - Algorithm_1 Lab	June 29, 2025	203	10:25 a.m. - 1:10 p.m.	<a href="#">Cancel</a>	<a href="#">Reschedule</a>
CSE 309 - Operating System	June 30, 2025	101	11:50 a.m. - 1:10 p.m.	<a href="#">Cancel</a>	<a href="#">Reschedule</a>
CSE 310 - OS Lab	June 30, 2025	203	2 p.m. - 4:45 p.m.	<a href="#">Cancel</a>	<a href="#">Reschedule</a>
CSE 210 - Algorithm_1 Lab	July 6, 2025	203	10:25 a.m. - 1:10 p.m.	<a href="#">Cancel</a>	<a href="#">Reschedule</a>
CSE 309 - Operating System	July 7, 2025	101	11:50 a.m. - 1:10 p.m.	<a href="#">Cancel</a>	<a href="#">Reschedule</a>
CSE 310 - OS Lab	July 7, 2025	203	2 p.m. - 4:45 p.m.	<a href="#">Cancel</a>	<a href="#">Reschedule</a>
CSE 362 - WDP Lab_2	July 9, 2025	203	10:25 a.m. - 1:10 p.m.	<a href="#">Cancel</a>	<a href="#">Reschedule</a>

# Apply Filter

## Scheduled classes from Today for Abu Sayed Md.Mustafizur Rahanman

Filter by Course:

CSE 362 - WDP Lab\_2

Filter by Date:

mm/dd/yyyy

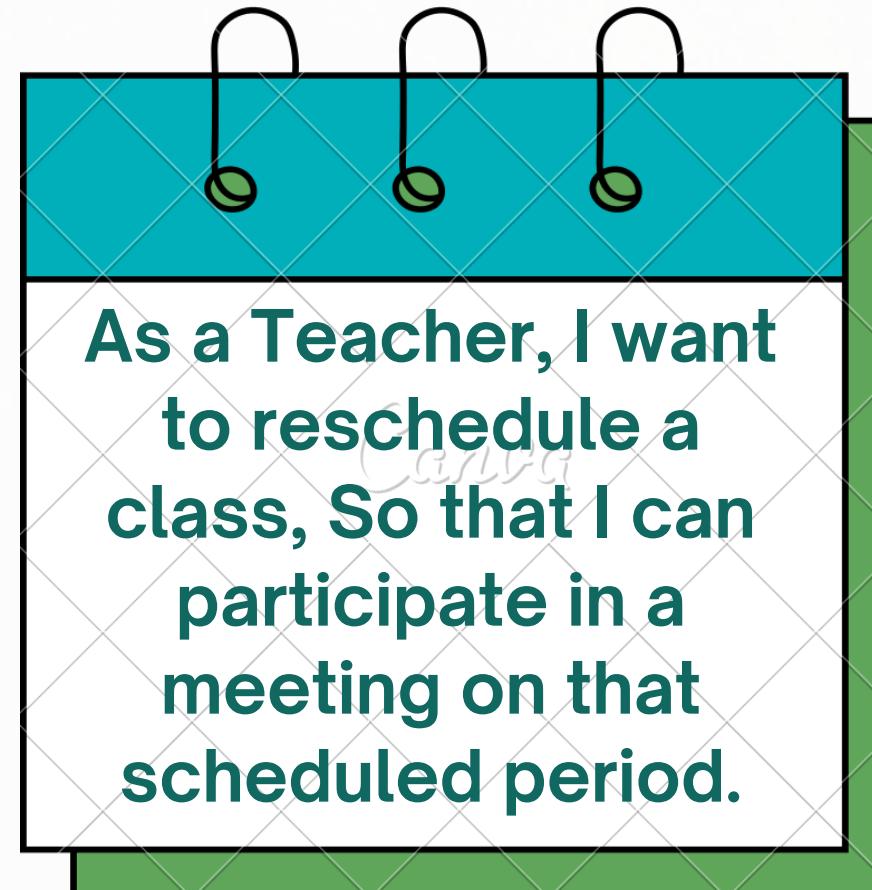
Apply Filters

Reset

Course	Date	Room	Time	Actions	
CSE 362 - WDP Lab_2	June 25, 2025	203	10:25 a.m. - 1:10 p.m.	<button>Cancel</button>	<button>Reschedule</button>
CSE 362 - WDP Lab_2	July 9, 2025	203	10:25 a.m. - 1:10 p.m.	<button>Cancel</button>	<button>Reschedule</button>
CSE 362 - WDP Lab_2	July 16, 2025	203	10:25 a.m. - 1:10 p.m.	<button>Cancel</button>	<button>Reschedule</button>
CSE 362 - WDP Lab_2	July 23, 2025	203	10:25 a.m. - 1:10 p.m.	<button>Cancel</button>	<button>Reschedule</button>
CSE 362 - WDP Lab_2	July 30, 2025	203	10:25 a.m. - 1:10 p.m.	<button>Cancel</button>	<button>Reschedule</button>
CSE 362 - WDP Lab_2	Aug. 6, 2025	203	10:25 a.m. - 1:10 p.m.	<button>Cancel</button>	<button>Reschedule</button>
CSE 362 - WDP Lab_2	Aug. 13, 2025	203	10:25 a.m. - 1:10 p.m.	<button>Cancel</button>	<button>Reschedule</button>
CSE 362 - WDP Lab_2	Aug. 20, 2025	203	10:25 a.m. - 1:10 p.m.	<button>Cancel</button>	<button>Reschedule</button>
CSE 362 - WDP Lab_2	Aug. 27, 2025	203	10:25 a.m. - 1:10 p.m.	<button>Cancel</button>	<button>Reschedule</button>
CSE 362 - WDP Lab_2	Sept. 3, 2025	203	10:25 a.m. - 1:10 p.m.	<button>Cancel</button>	<button>Reschedule</button>
CSE 362 - WDP Lab_2	Sept. 10, 2025	203	10:25 a.m. - 1:10 p.m.	<button>Cancel</button>	<button>Reschedule</button>

# User Story-1

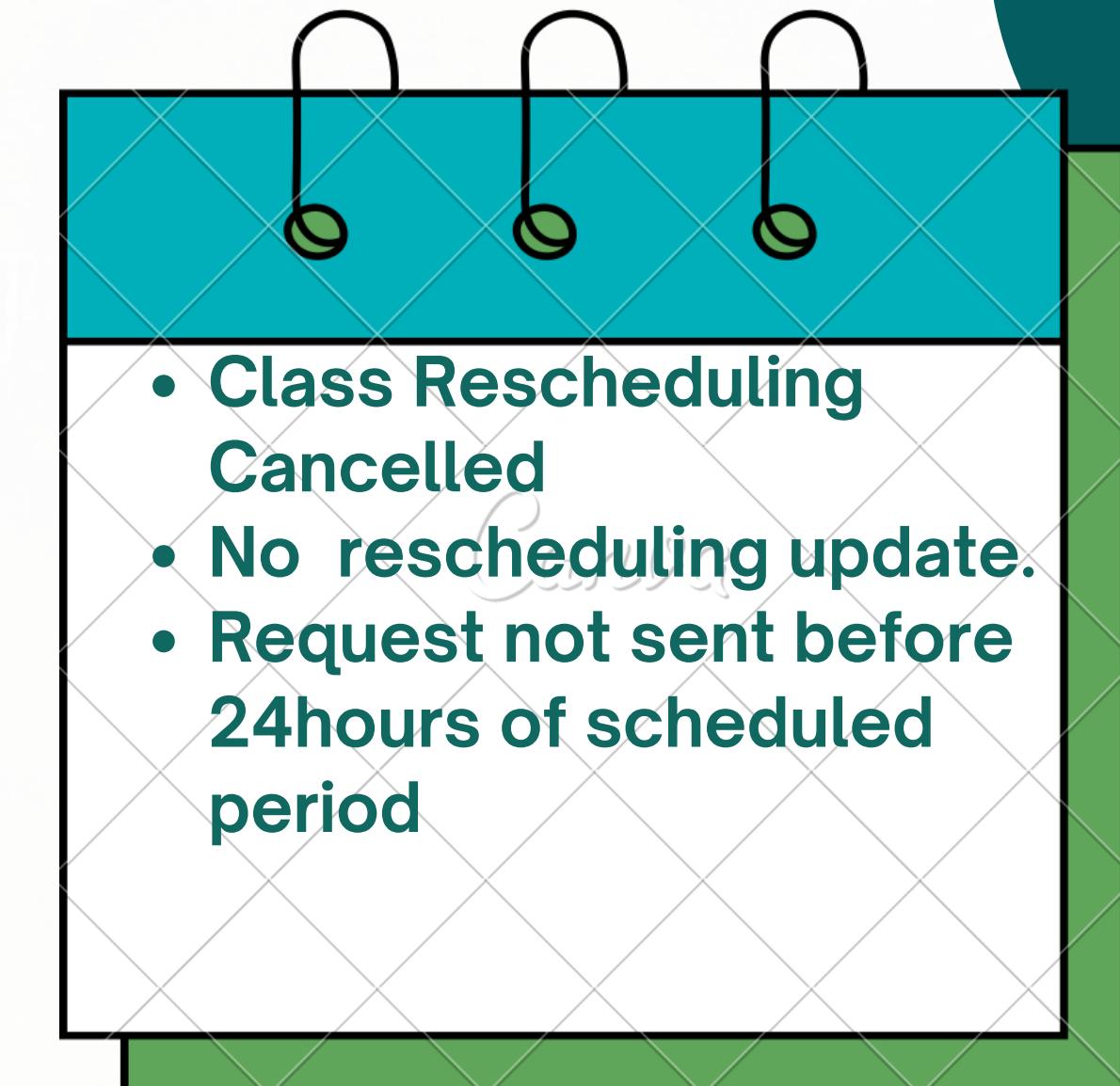
## Rescheduling Class



Card & Conversation



Successful Confirmation



Confirmation on Failure

# Reschedule Class

Course	Date	Room	Time	Actions
CSE 362 - WDP Lab_2	June 25, 2025	203	10:25 a.m. - 1:10 p.m.	<button>Cancel</button> <button>Reschedule</button>

### Reschedule Class: WDP Lab\_2 ( CSE 362 )

Reschedule date:

06/24/2025

Is online  
 Online  Offline

Select Slot:

Room 102 09:00 AM–10:20 AM

Room 102 09:00 AM–10:20 AM

Room 201 09:00 AM–10:20 AM

Room 203 09:00 AM–10:20 AM

Room 302 09:00 AM–10:20 AM

Room 123 09:00 AM–10:20 AM

[Dashboard](#)

### Reschedule Class: WDP Lab\_2 ( CSE 362 )

Reschedule date:

06/24/2025

Is online  
 Online  Offline

Select Slot:

Online 07:00 PM–08:20 PM

Online 07:00 PM–08:20 PM

Online 08:25 PM–09:45 PM

Online 09:50 PM–11:10 PM

Online 07:00 PM–09:45 PM

Online 08:25 PM–11:10 PM

[Dashboard](#)

Course	Date	Room	Time	Actions
CSE 309 - Operating System	June 23, 2025	101	11:50 a.m. - 1:10 p.m.	<button>Cancel</button> <button>Reschedule</button>

# Dynamic Routine

Routine for Batch 3-2							
Day / Time	9:00 a.m. - 10:20 a.m.	10:25 a.m. - 11:45 a.m.	11:50 a.m. - 1:10 p.m.	2:00 p.m. - 3:20 p.m.	3:25 p.m. - 4:45 p.m.	View Online Classes	
Sunday Jun 22, 2025	CSE 357 Israt Jahan Room: 202	CSE 353 Sansun Nahar Khandakar Room: 103	CSE 355 Bulbul Ahammad Room: 102	—	BIS 351 Md Rubel Room: 101	<a href="#">View Classes</a>	
Monday Jun 23, 2025	BIS 351 Md Rubel Room: 101	CSE 359 Imdadul Islam Room: 102	—	—	—	<a href="#">View Classes</a>	
Tuesday Jun 24, 2025	—	CSE 359 Imdadul Islam Room: 101	CSE 353 Sansun Nahar Khandakar Room: 103	CSE 360 Imdadul Islam Room: 203	—	<a href="#">View Classes</a>	
Wednesday Jun 25, 2025	CSE 357 Israt Jahan Room: 202	CSE 362 Abu Sayed Md.Mustafizur Rahanman Room: 203	CSE 355 Bulbul Ahammad Room: 102	—	—	<a href="#">View Classes</a>	
Thursday Jun 26, 2025	—	CSE 358 Md. Golam Moazzam Room: 203	—	—	—	<a href="#">View Classes</a>	
Friday Jun 27, 2025	—	—	—	—	—	<a href="#">View Classes</a>	
Saturday Jun 28, 2025	—	—	—	—	—	<a href="#">View Classes</a>	

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Routine for Batch 3-2							
Day / Time	9:00 a.m. - 10:20 a.m.	10:25 a.m. - 11:45 a.m.	11:50 a.m. - 1:10 p.m.	2:00 p.m. - 3:20 p.m.	3:25 p.m. - 4:45 p.m.	View Online Classes	
Sunday Jun 22, 2025	CSE 357 Israt Jahan Room: 202	CSE 353 Sansun Nahar Khandakar Room: 103	CSE 355 Bulbul Ahammad Room: 102	—	BIS 351 Md Rubel Room: 101	<a href="#">View Classes</a>	
Monday Jun 23, 2025	BIS 351 Md Rubel Room: 101	CSE 359 Imdadul Islam Room: 102	—	—	—	<a href="#">View Classes</a>	
Tuesday Jun 24, 2025	—	CSE 359 Imdadul Islam Room: 101	CSE 353 Sansun Nahar Khandakar Room: 103	CSE 360 Imdadul Islam Room: 203	—	<a href="#">View Classes</a>	
Wednesday Jun 25, 2025	CSE 357 Israt Jahan Room: 202	—	—	—	CSE 355 Bulbul Ahammad Room: 102	<a href="#">View Classes</a>	
Thursday Jun 26, 2025	—	CSE 358 Md. Golam Moazzam Room: 203	—	—	—	<a href="#">View Classes</a>	
Friday Jun 27, 2025	—	—	—	—	—	<a href="#">View Classes</a>	
Saturday Jun 28, 2025	—	—	—	—	—	<a href="#">View Classes</a>	

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## Online Classes on Tuesday (Jun 24, 2025) for Batch 3-2

Course	Teacher	Time
CSE 362	Abu Sayed Md.Mustafizur Rahanman	7:00 p.m. - 8:20 p.m.

[Back](#)

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# Updated Schedule

 Scheduled classes from Today for Abu Sayed Md.Mustafizur Rahanman

**Filter by Course:**  **Filter by Date:**

Course	Date	Room	Time	Actions	
CSE 309 - Operating System	June 23, 2025	101	11:50 a.m. - 1:10 p.m.	<input type="button" value="Cancel"/>	<input type="button" value="Reschedule"/>
CSE 310 - OS Lab	June 23, 2025	203	2 p.m. - 4:45 p.m.	<input type="button" value="Cancel"/>	<input type="button" value="Reschedule"/>
CSE 362 - WDP Lab_2	June 24, 2025	Online	7 p.m. - 8:20 p.m.	<input type="button" value="Cancel"/>	<input type="button" value="Reschedule"/>
CSE 309 - Operating System	June 25, 2025	101	11:50 a.m. - 1:10 p.m.	<input type="button" value="Cancel"/>	<input type="button" value="Reschedule"/>

# Future Scope

- Mobile App Integration
- Analytics & Reporting
- Multi-department Support
- Integration with LMS – Connect with Learning Management Systems

**Backend: Python, Django Framework**

**Database: SQLite**

**API: Django Rest Framework**

**Frontend: HTML, CSS, Bootstrap**

**Admin Customization: Django Admin**

**Others: AJAX , Django signals**

Thanks For  
the  
opportunity