

# **Academic Section Management System**

CS346 - Software Engineering Lab Assignment 2 - Group 10B

## **User Documentation**

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### **1. Introduction:**

Brief overview of the Academic Section Management System.

The Academic Management System is intended to be used as a centralized platform for managing various academic section activities within an institute. Users will interact with the system to perform tasks such as admissions and registration, course management, timetable generation, examination planning, grade generation, and information retrieval. The system is designed to provide user-friendly interfaces tailored to the specific needs of different user roles, facilitating efficient communication and collaboration across the academic community.

Purpose of the software.

Develop a software that manages various academic section activities of the institute. The system must cater to the requirements of different users like Dean, Registrar, Faculty, Students, Administrators and Officials for performing their assigned tasks.

Target audience.

Academic administrators, faculty members, and students who will use the system for their respective tasks and activities.

### **2. Getting Started:**

Installation instructions

Since the application is distributed as an executable file, there is no formal installation process required. Follow these steps to run the software:

1. Download the executable file provided.
2. Place the executable file in a convenient location on your computer.

## System requirements

To run the Academic Section Management System, ensure your system meets the following requirements:

- a. **Operating System:** Windows 7 or later.
- b. **Processor:** Intel Core i3 or equivalent.
- c. **RAM:** 4 GB minimum.
- d. **Storage:** Sufficient free space for storing the executable file and any necessary data files.
- e. **Internet Connection:** Required for accessing the Azure SQL online database.

## Login process

1. Launch the application by double-clicking the executable file.
2. Upon opening, you will be directed to the welcome page.

The screenshot shows the login interface for the IIT Guwahati Academic Management System. On the left, there is a dark blue sidebar featuring the institute's logo (a circular emblem with three interlocking circles in red, yellow, and blue) and text in Assamese and English. Below the logo, two buttons are visible: 'Login' with a user icon and 'Register' with a person icon. The main area of the screen displays a scenic view of the IIT Guwahati campus, which includes modern buildings, a large green lawn, and a lake. At the bottom center, the text 'Welcome to IIT Guwahati Academic Management System' is displayed in a large, bold, dark blue font.

## Welcome Page

1. The welcome page serves as the landing page upon opening the application.
2. If your registration has already been approved by the administrator, proceed to login.
3. If you are a new user, you must register first.

## User Registration

1. Click on the "Register" button to initiate the registration process.
2. Fill out the required information, including user type, email, and password.
3. After completing the registration form, submit your details.
4. Your registration request will be sent to the administrator for approval.

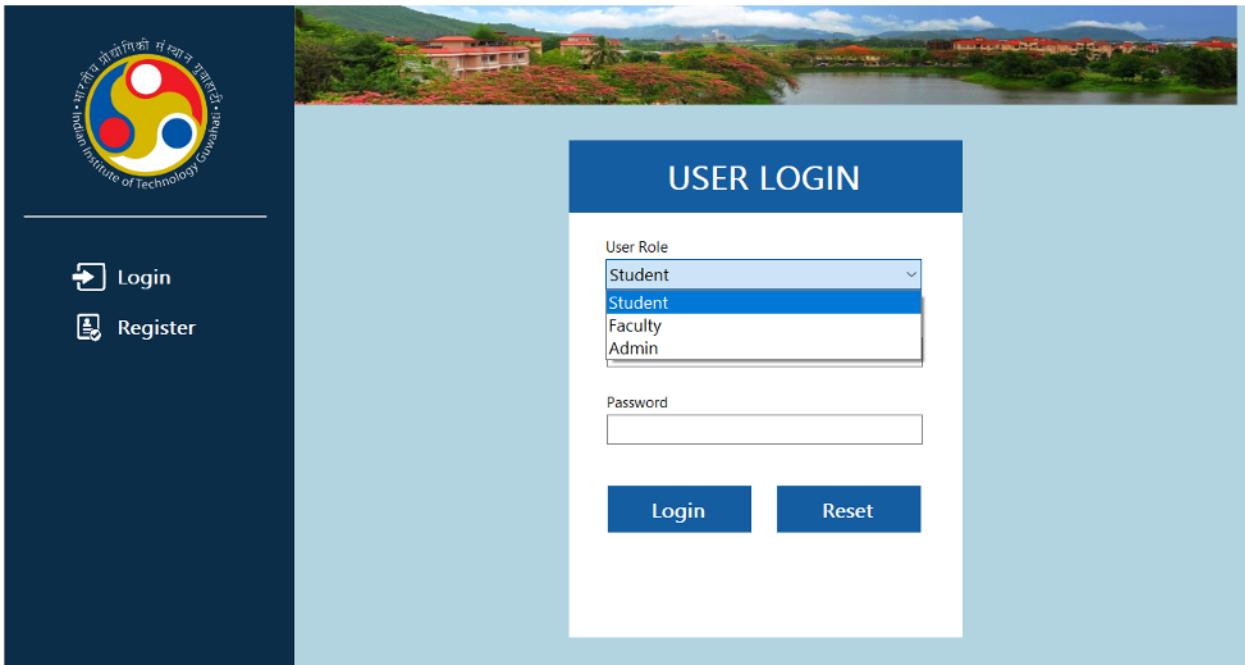
The screenshot shows the 'USER REGISTRATION' page. On the left, there is a sidebar with the Institute of Technology logo and two buttons: 'Login' and 'Register'. The main content area has a blue header 'USER REGISTRATION'. Below it, there are several input fields: 'Name' (text input), 'DOB' (date input showing '03 March 2024'), 'User Role' (dropdown menu with options 'Faculty' and 'Student', where 'Faculty' is selected), 'Contact' (text input), 'Address' (multiline text input), 'Enrollment Year / Joining Year' (text input), 'Email' (text input), and 'Password' (text input). At the bottom are two buttons: 'Register' and 'Reset'. To the right of the form, there is a section titled 'INSTRUCTIONS' with a list of validation rules:

- Contact must be 10 digits only
- The Email must end with @iitg.ac.in
- The password should have at least 8 characters and must include at least one uppercase, one lowercase and a special character
- After registration, you must wait for admin approval before login
- Address field is multiline
- No field should be left blank

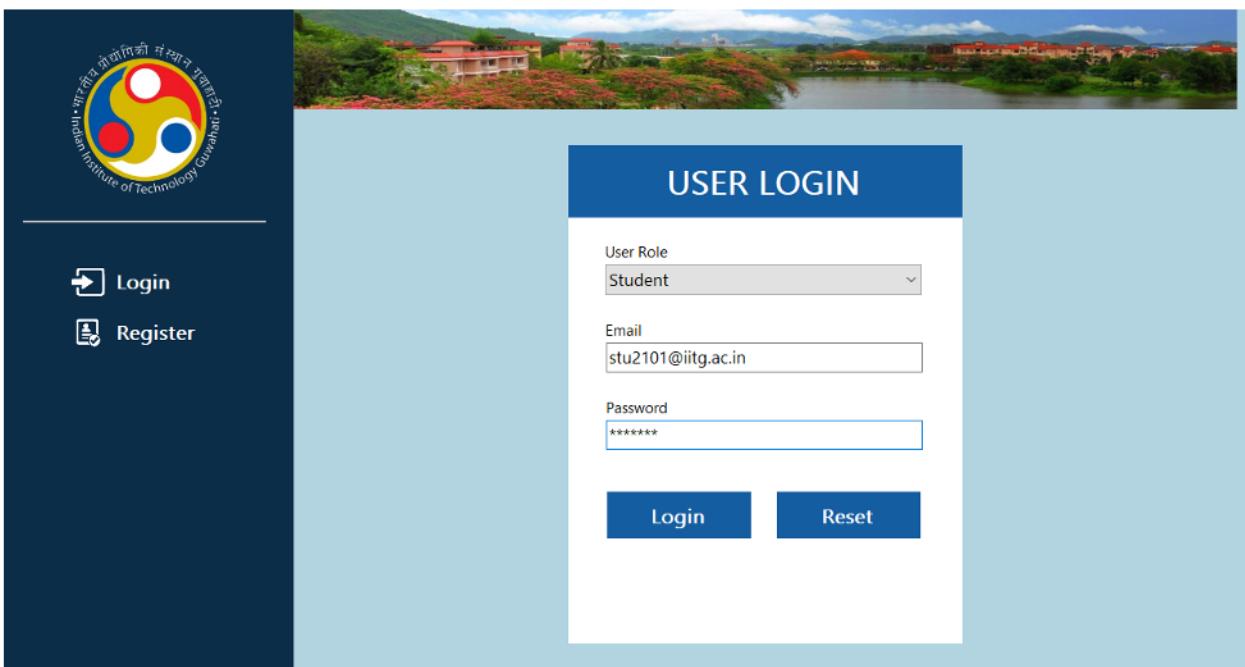
## Approval Process

1. Once the administrator approves your registration, you will receive a notification.
2. Upon approval, you can proceed to log in using your user type, email, and password.

## Login



1. Enter your user type, email, and password in the respective fields.



2. Click on the "Login" button to access the system.

Note: If you encounter any issues during the registration or login process, please contact the system administrator for assistance.

### 3. User Interface Overview:

#### Description of main features

The user interface of the Academic Section Management System is designed to provide intuitive access to its key features. The main features include:

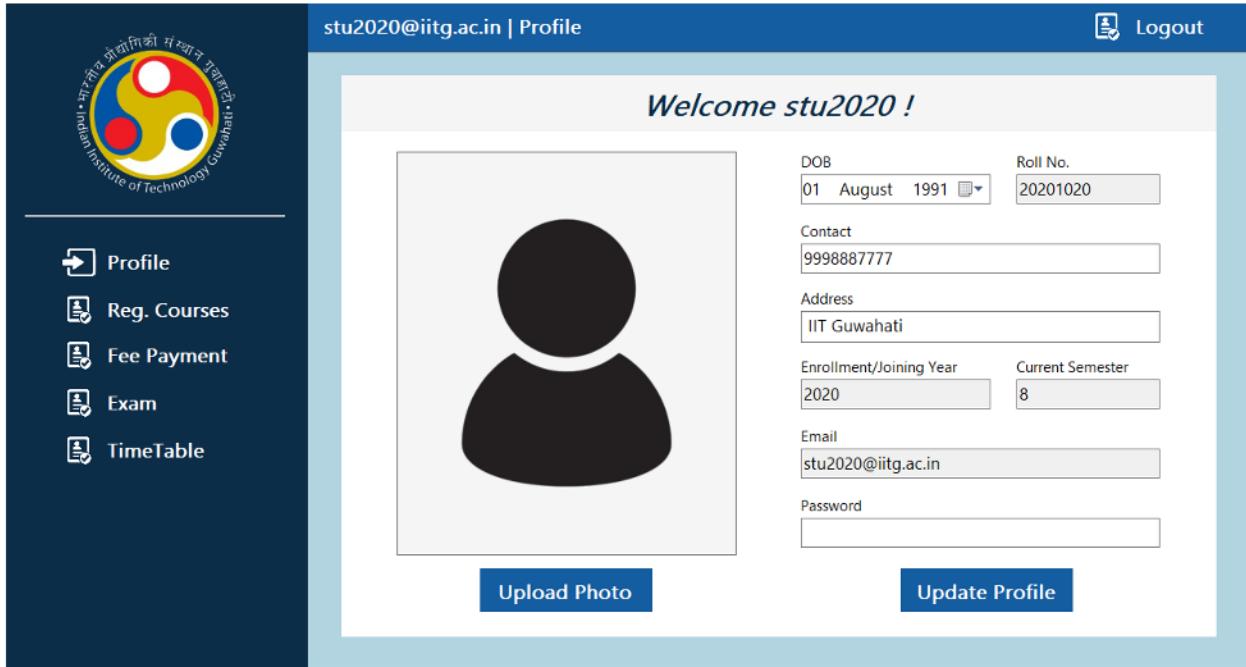
1. **Welcome Page:** The landing page where users are greeted and prompted to login or register.
2. **Login/Register:** Options for existing users to log in and new users to register for access.
3. **Dashboard:** Upon logging in, users are presented with a dashboard providing an overview of their tasks and activities.
4. **Navigation Menu:** A sidebar providing access to various modules and functionalities of the system.
5. **Forms and Input Fields:** Interfaces for inputting data, such as student information, course details, and examination schedules.

#### Navigation Guide

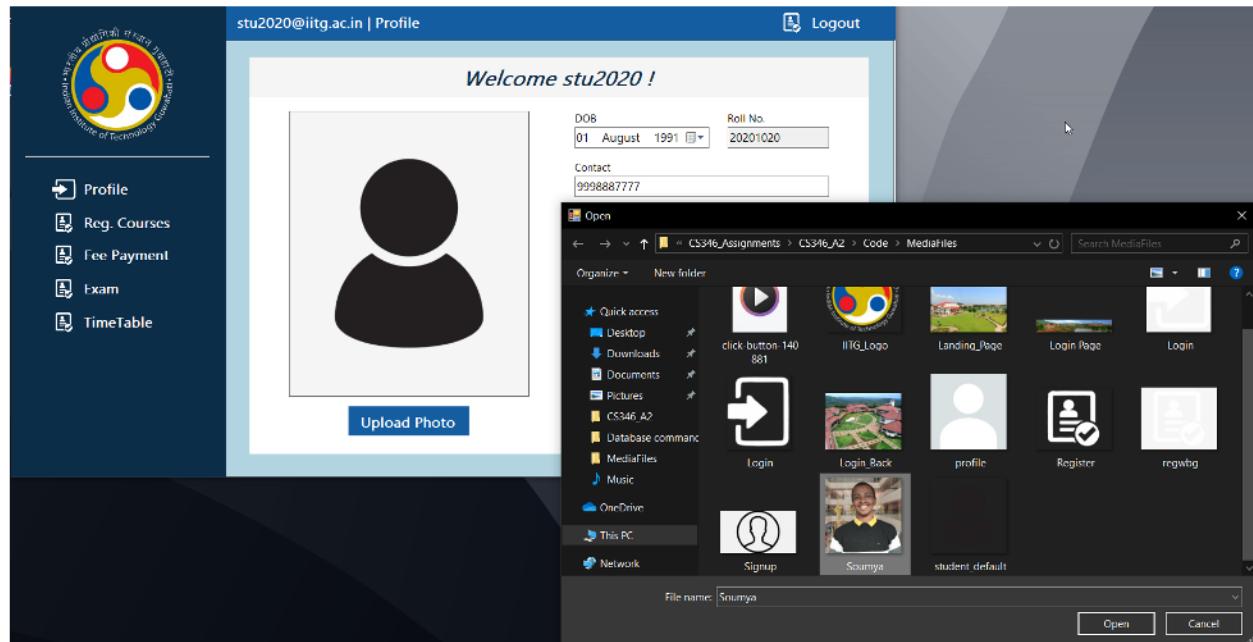
1. To access different features and functionalities, use the navigation menu located at the top or side of the application window.
2. Click on the corresponding menu items to navigate to specific modules or pages within the system.
3. Use buttons, links, and input fields as indicated on each page to interact with the system and perform tasks.

## 4. Functionality:

Upon successful login, users will have access to the following functionalities: Student



Profile details and profile photo update steps



Step 1: Click Upload photo

Step 2: Select the photos from the File Dialogue box that opens

Step 3: Click Open

See registered courses (When registration closed)

1. See the course enrolling steps

Fee payment steps

Step 1: Click the Fee Payment button in the dashboard to open the portal

Step 2: If fees is not paid, click on Pay Fee

Step 3: Message box will show status of fee payment

The screenshot shows the 'stu2020@iitg.ac.in | Fee Payment' page. On the left sidebar, there are links for Profile, Reg. Courses, Fee Payment, Exam, and TimeTable. The main content area is titled 'FEE DETAILS' for the '2024 Winter Semester'. It contains fields for Roll No (20201020), Name (stu2020), Semester (8), Amount (138000), and Payment Time (Not Paid). A modal window is overlaid on the page, displaying the message 'Fees Successfully Paid' with an 'OK' button.

Step 4: If fees were paid successfully, then the time of payment will be mentioned, and no fee payment button

The screenshot shows the same 'stu2020@iitg.ac.in | Fee Payment' page. The 'Payment Time' field now contains the value '2024-03-03 16:43:50'. Below the form, a green message 'Fees paid successfully!' is displayed.

## Registered Courses Page

Step 1: Displays the list of courses the student has registered for. If course registration is open, click on the button to open the course enrollment page.

The screenshot shows the 'Course Registration' page for user 'stu2101@iitg.ac.in'. On the left sidebar, there is a logo of Indian Institute of Technology Guwahati and a navigation menu with links: Profile, Reg. Courses, Fee Payment, Exam, TimeTable, and Queries. The main content area displays a table of registered courses:

Course Code	Course Name	L	T	P	C	Semester	Type	Approval Status	Grade
CS345	Software Engineering	2	0	0	4	6	Credit	Approved	NA
CS346	Software Engineering Laboratory	0	0	3	3	6	Credit	Approved	NA
CS348	Implementation of Programming Languages Lab	0	2	3	7	6	Credit	Approved	NA
CS361	Machine Learning	3	0	0	6	6	Credit	Approved	NA

A green banner at the top of the main content area says 'Course Registration is open. Click to view'.

## Course Enroll Page

Step 1: An available list of courses is displayed with an option to register/deregister for each course. In elective courses, select a course from the drop-down and then register/deregister.

The screenshot shows the 'Course Registration' page for user 'stu2101@iitg.ac.in'. On the left sidebar, there is a logo of Indian Institute of Technology Guwahati and a navigation menu with links: Profile, Reg. Courses, Fee Payment, Exam, TimeTable, and Queries. The main content area displays three sections: Compulsory Courses, Elective Courses, and Audit Courses.

**Compulsory Courses**

L	T	P	C	Code	Name	Slot	Desc.	Register
0	0	3	3	CS346	Software Engineering Laboratory	ML1	<a href="#">View</a>	<a href="#">De-Register</a>
2	0	0	4	CS345	Software Engineering	A1	<a href="#">View</a>	<a href="#">De-Register</a>
0	2	3	7	CS348	Implementation of Programming Languages Lab	ML2	<a href="#">View</a>	<a href="#">De-Register</a>
3	0	0	6	CS361	Machine Learning	B1	<a href="#">View</a>	<a href="#">De-Register</a>

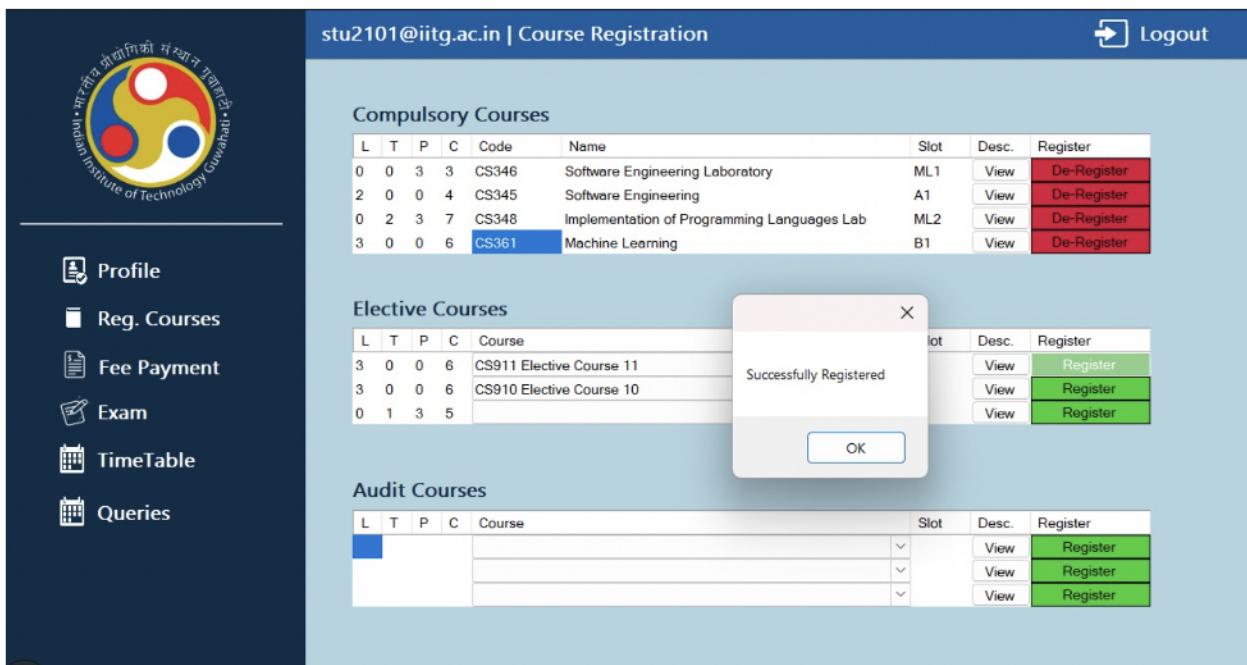
**Elective Courses**

L	T	P	C	Course	Slot	Desc.	Register
3	0	0	6	CS911 Elective Course 11	C	<a href="#">View</a>	<a href="#">Register</a>
3	0	0	6	CS910 Elective Course 10	B	<a href="#">View</a>	<a href="#">Register</a>
0	1	3	5			<a href="#">View</a>	<a href="#">Register</a>

**Audit Courses**

L	T	P	C	Course	Slot	Desc.	Register
1	0	0	3			<a href="#">View</a>	<a href="#">Register</a>
1	0	0	3			<a href="#">View</a>	<a href="#">Register</a>
1	0	0	3			<a href="#">View</a>	<a href="#">Register</a>

Step 2: After clicking on register

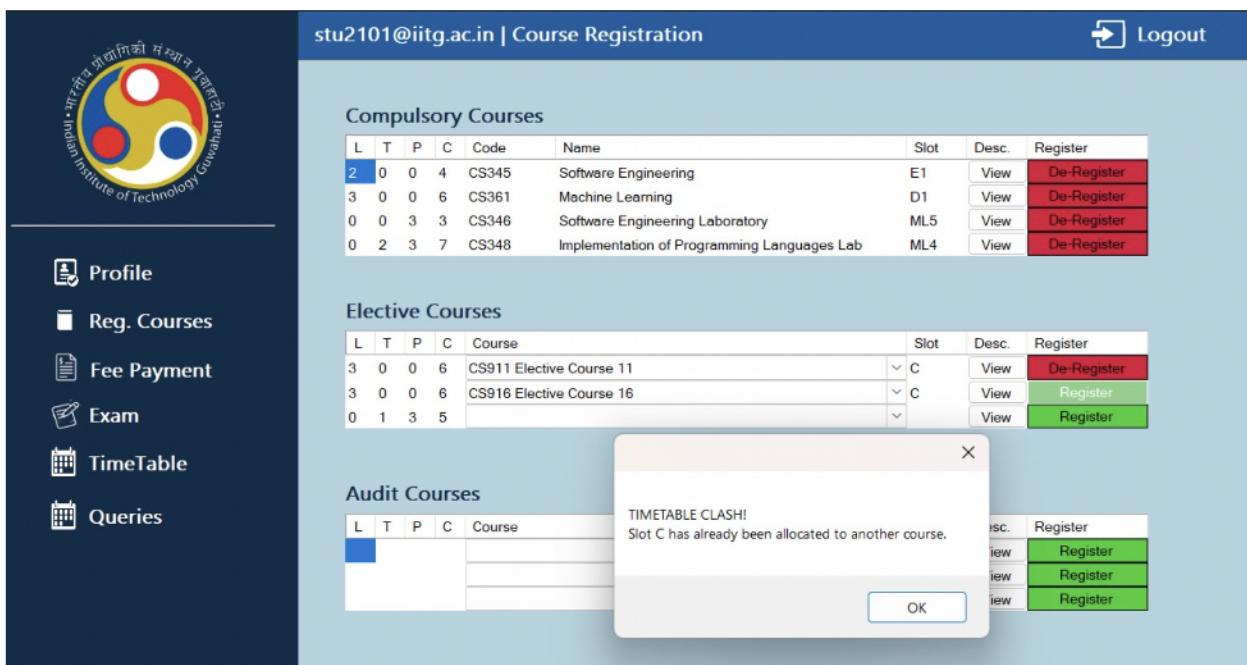


The screenshot shows the course registration interface for a student. On the left sidebar, there are links for Profile, Reg. Courses, Fee Payment, Exam, TimeTable, and Queries. The main content area is titled "stu2101@iitg.ac.in | Course Registration". It displays three sections: "Compulsory Courses", "Elective Courses", and "Audit Courses". In the "Elective Courses" section, a course named "Machine Learning" is selected. A confirmation dialog box is overlaid on the page, stating "Successfully Registered" with an "OK" button.

L	T	P	C	Code	Name	Slot	Desc.	Register
0	0	3	3	CS346	Software Engineering Laboratory	ML1	<a href="#">View</a>	<a href="#">De-Register</a>
2	0	0	4	CS345	Software Engineering	A1	<a href="#">View</a>	<a href="#">De-Register</a>
0	2	3	7	CS348	Implementation of Programming Languages Lab	ML2	<a href="#">View</a>	<a href="#">De-Register</a>
3	0	0	6	CS361	Machine Learning	B1	<a href="#">View</a>	<a href="#">De-Register</a>

L	T	P	C	Course	Slot	Desc.	Register
3	0	0	6	CS911 Elective Course 11		<a href="#">View</a>	<a href="#">Register</a>
3	0	0	6	CS910 Elective Course 10		<a href="#">View</a>	<a href="#">Register</a>
0	1	3	5			<a href="#">View</a>	<a href="#">Register</a>

Step 3: If the student tries to register for a course that clashes with another registered course, it throws an error message.



The screenshot shows the course registration interface for a student. On the left sidebar, there are links for Profile, Reg. Courses, Fee Payment, Exam, TimeTable, and Queries. The main content area is titled "stu2101@iitg.ac.in | Course Registration". It displays three sections: "Compulsory Courses", "Elective Courses", and "Audit Courses". In the "Elective Courses" section, two courses, "Machine Learning" and "Software Engineering", are listed under Slot C. A confirmation dialog box is overlaid on the page, stating "TIMETABLE CLASH! Slot C has already been allocated to another course." with an "OK" button.

L	T	P	C	Code	Name	Slot	Desc.	Register
2	0	0	4	CS345	Software Engineering	E1	<a href="#">View</a>	<a href="#">De-Register</a>
3	0	0	6	CS361	Machine Learning	D1	<a href="#">View</a>	<a href="#">De-Register</a>
0	0	3	3	CS346	Implementation of Programming Languages Lab	ML5	<a href="#">View</a>	<a href="#">De-Register</a>
0	2	3	7	CS348		ML4	<a href="#">View</a>	<a href="#">De-Register</a>

L	T	P	C	Course	Slot	Desc.	Register
3	0	0	6	CS911 Elective Course 11	C	<a href="#">View</a>	<a href="#">De-Register</a>
3	0	0	6	CS916 Elective Course 16	C	<a href="#">View</a>	<a href="#">Register</a>
0	1	3	5			<a href="#">View</a>	<a href="#">Register</a>

Step 4: If a student deregisters for a course

**stu2101@iitg.ac.in | Course Registration**

**Logout**

**Compulsory Courses**

L	T	P	C	Code	Name	Slot	Desc.	Register
0	0	3	3	CS346	Software Engineering Laboratory	ML1	<a href="#">View</a>	<a href="#">De-Register</a>
2	0	0	4	CS345	Software Engineering	A1	<a href="#">View</a>	<a href="#">De-Register</a>
0	2	3	7	CS348	Implementation of Programming Languages Lab	ML2	<a href="#">View</a>	<a href="#">De-Register</a>
3	0	0	6	CS361	Machine Learning	B1	<a href="#">View</a>	<a href="#">De-Register</a>

**Elective Courses**

L	T	P	C	Course
3	0	0	6	CS911 Elective Course 11
3	0	0	6	CS916 Elective Course 16
0	1	3	5	

**Audit Courses**

L	T	P	C	Course	Slot	Desc.	Register
					▼	<a href="#">View</a>	<a href="#">Register</a>
					▼	<a href="#">View</a>	<a href="#">Register</a>
					▼	<a href="#">View</a>	<a href="#">Register</a>

Successfully De-Registered

**OK**

Time table page

Step 1: Click on the time table on the dashboard

**stu2101@iitg.ac.in | Timetable**

**Logout**

**SELECT DAY :**

Course Code	Course Name	Slot	Time	Venue
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Step 2: Select the day of the week to view the time table of that day from the drop-down menu

The screenshot shows the IITG student portal interface. On the left, there is a sidebar with the Indian Institute of Technology Guwahati logo and links for Profile, Reg. Courses, Fee Payment, Exam, and TimeTable. The main content area has a header "stu2101@iitg.ac.in | Timetable" and a "Logout" button. A dropdown menu labeled "SELECT DAY :" shows "Thursday". Below it is a table of course details:

Course Code	Course Name	Slot	Time	Venue
CS911	Elective Course 11	C	10:00 AM - 11:00 AM	5003, Classroom
OE802	Digital Ethics and Privacy	D	09:00 AM - 10:00 AM	5003, Classroom
CS207	Design and Analysis of Algorithms	B	11:00 AM - 12:00 PM	L2, Lecture Hall
CS361	Machine Learning	B1	04:00 PM - 05:00 PM	L3, Lecture Hall

### Exam schedule page

Step 1: Click on the Exam button on the dashboard

The screenshot shows the IITG student portal interface. On the left, there is a sidebar with the Indian Institute of Technology Guwahati logo and links for Profile, Reg. Courses, Fee Payment, Exam, and TimeTable. The main content area has a header "stu2101@iitg.ac.in | Exam Schedule" and a "Logout" button. A dropdown menu labeled "SELECT EXAM :" is present. Below it is a table of course details:

Course Code	Course Name	Date	Time	Venue

Step 2: Select the Exam type - Mid-semester exam or End semester exam from the drop-down menu

The screenshot shows the 'Exam Schedule' section of the portal. At the top, it displays the user's email 'stu2101@iitg.ac.in' and a 'Logout' button. On the left, there is a sidebar with icons for Profile, Reg. Courses, Fee Payment, Exam, and TimeTable. The main content area has a heading 'SELECT EXAM : End-Semester Exams'. Below this is a table listing courses with their details:

Course Code	Course Name	Date	Time	Venue
CS361	Machine Learning	02/05/2024	9AM-12PM	L3, Lecture Hall
CS207	Design and Analysis of Algorithms	02/05/2024	2PM-5PM	L3, Lecture Hall
CS345	Software Engineering	01/05/2024	9AM-12PM	L3, Lecture Hall
CS345	Software Engineering	01/05/2024	9AM-12PM	L3, Lecture Hall

## Queries page

Step 1: Click the queries button on the dashboard, write your query, and hit submit.

The screenshot shows the 'Queries' section of the portal. At the top, it displays the user's email 'aditya.mandal@iitg.ac.in' and a 'Logout' button. On the left, there is a sidebar with icons for Profile, Reg. Courses, Fee Payment, Exam, TimeTable, and Queries. The main content area has a heading '| Queries'. Below this is a table for complaints:

ComplaintID	Desc	Status	Comments
	I have a problem with fee payment.		

At the bottom right, there is a large blue 'Submit' button.

Step 2: You can check the status of the query in the list.



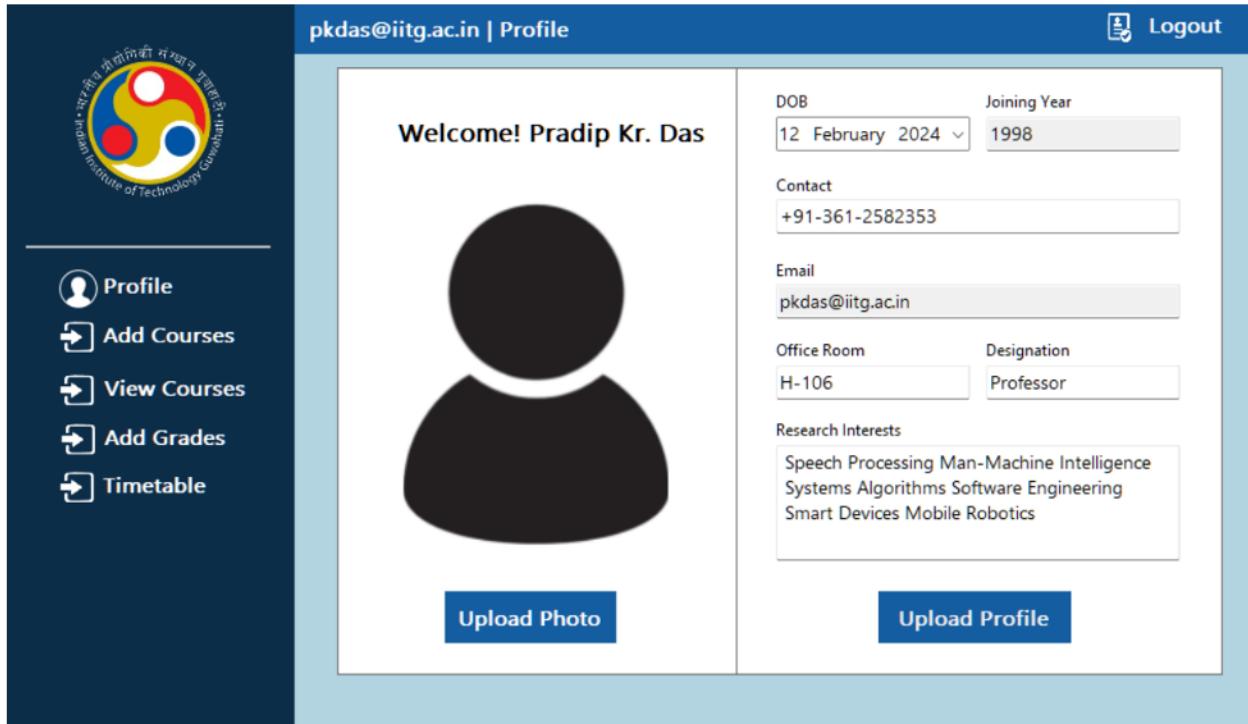
aditya.mandal@iitg.ac.in | Queries Logout

ComplaintID	Desc	Status	Comments
7	I have a problem with fee payment.	Resolved	Fixed the issue

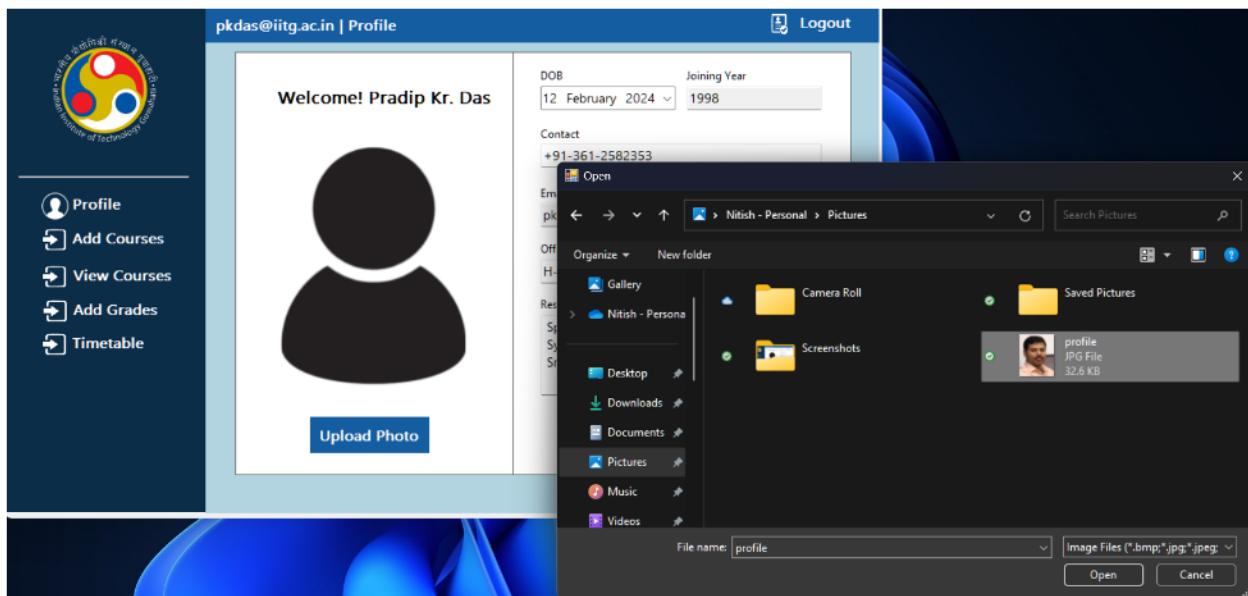
**Profile** **Reg. Courses** **Fee Payment** **Exam** **TimeTable** **Queries**

**Submit**

# Faculty



## Profile details and profile photo update steps



Step 1: Click Upload photo

Step 2: Select the photos from the File Dialogue box that opens

Step 3: Click Open



[pkdas@iitg.ac.in](#) | Profile [Logout](#)

Welcome! Pradip Kr. Das



[Upload Photo](#)

DOB: 12 February 2024 | Joining Year: 1998

Contact: +91-361-2582353

Email: pkdas@iitg.ac.in

Office Room: H-106 | Designation: Professor

Research Interests:

Speech Processing Man-Machine Intelligence  
Systems Algorithms Software Engineering  
Smart Devices Mobile Robotics

[Upload Profile](#)

**Profile**  
**Add Courses**  
**View Courses**  
**Add Grades**  
**Timetable**

Add elective course



[pkdas@iitg.ac.in](#) | Add Course [Logout](#)

**ENTER COURSE DETAILS**

Course Name	Course Code
<input type="text"/>	<input type="text"/>
L (Lectures)	Description
<input type="text"/>	<input type="text"/>
T (Tutorials)	
<input type="text"/>	
P (Practicals)	
<input type="text"/>	
Semester	Intake
<input type="text"/>	<input type="text"/>

[Submit](#) [Clear](#)

**Profile**  
**Add Courses**  
**View Courses**  
**Add Grades**  
**Timetable**

Step 1: Navigate to the dashboard and click on "Add Courses."

Step 2: Fill out all the details provided in the 'ENTER COURSE DETAILS' section with appropriate values.

Step 3: Ensure that the Course Name is of length L, and both T and P are numerical values. Additionally, the Course Name cannot exceed 50 characters, and the Course Description cannot exceed 200 characters.

Step 4: Click on "Submit".

pkdas@iitg.ac.in | Add Course

Logout

### ENTER COURSE DETAILS

Course Name	Course Code
Speech Recognition	CS
L (Lectures)	Description
2	This course introduces students to the rapidly developing field of automatic speech recognition.
T (Tutorials)	
0	
P (Practicals)	
1	
Semester	Intake
6	80

**Submit**    **Clear**

View list of pending approves in courses

pkdas@iitg.ac.in | Courses

Logout

Introduction to computing CS101
Computing Lab. CS110
Software Engineering CS345
Software Engineering Laboratory CS346

Step 1: Navigate to the dashboard and click on "View Courses."

Step 2: Select the course you wish to take action on by clicking its button.

Step 3: Tick the checkboxes next to the students you want to approve.

Step 4: Click on "Approve" to grant approval.

Note: Rejecting a selected student removes the student from the table.

The screenshot shows a user interface for managing student approvals. On the left, there's a sidebar with a logo and links for Profile, Add Courses, View Courses, Add Grades, and Timetable. The main content area has a header 'pkdas@iitg.ac.in | Courses' and a 'Logout' button. It displays course details for 'Software Engineering CS345' and a table of student records. The table includes columns for User ID, Name, Grade, and Approval Status. One row for 'Vijesh' is checked and marked as 'Pending'. Buttons for 'Approve' and 'Reject' are at the bottom.

User ID	Name	Grade	Approval Status
<input type="checkbox"/> 20211124	stu21124	NA	Approved
<input type="checkbox"/> 20211125	stu21125	NA	Approved
<input type="checkbox"/> 20211126	stu21126	NA	Approved
<input type="checkbox"/> 20211127	stu21127	NA	Approved
<input type="checkbox"/> 20211128	stu21128	NA	Approved
<input type="checkbox"/> 20211129	stu21129	NA	Approved
<input type="checkbox"/> 20211130	stu21130	NA	Approved
<input type="checkbox"/> 20211131	Vijesh	NA	Approved
<input checked="" type="checkbox"/> 20211001	stu2101	NA	Pending

## Give Grades

The screenshot shows a user interface for giving grades. The sidebar and header are identical to the 'Courses' page. The main content area has a header 'pkdas@iitg.ac.in | Grades' and a 'Logout' button. It displays course details for 'Introduction to computing CS101', 'Computing Lab. CS110', 'Software Engineering CS345', and 'Software Engineering Laboratory CS346'.

Step 1: Navigate to the dashboard and click on "Add Grades."

Step 2: Select the course you wish to take action on by clicking its button.

Step 3: Tick the checkboxes next to the students you want to assign a particular grade.

Step 4: Type the grade in the text box. The grade can only be AS, AA, AB, BB, BC, CC, CD, DD, DE, EE, FD, FA, EF, or FF.

Step 5: Click "Add Grade" to update the grades of the selected students.



**pkdas@iitg.ac.in | Grades** [Logout](#)

**Introduction to computing CS101**

**Computing Lab. CS110**

**Software Engineering CS345**

**Software Engineering Laboratory CS346**

**Course Code: CS345**  
**Course Name: Software Engineering**  
**Course Description: SWE Dummy Desc**  
**L: 2, T: 0, P: 0, C: 4**  
**Semester: 6, Intake:**

User ID	Name	Grade
<input type="checkbox"/> 20211030	stu2130	AA
<input type="checkbox"/> 20211031	stu2131	NA
<input type="checkbox"/> 20211032	stu2132	NA
<input type="checkbox"/> 20211033	stu2133	NA
<input type="checkbox"/> 20211034	stu2134	NA
<input type="checkbox"/> 20211035	stu2135	NA
<input type="checkbox"/> 20211036	stu2136	NA

[Add Grade](#)

Time Table Page



**pkdas@iitg.ac.in | Timetable** [Logout](#)

**SELECT DAY**

Course Code	Course Name	Slot	Time
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Step 1: Navigate to the dashboard and click on "Timetable."

Step 2: Select the day of the week to view time table of that day from the drop down menu

The screenshot shows a user interface for viewing a timetable. At the top, there is a header bar with the text "pkdas@iitg.ac.in | Timetable" and a "Logout" button. On the left side, there is a sidebar with a logo of the Indian Institute of Technology Guwahati and several navigation links: "Profile", "Add Courses", "View Courses", "Add Grades", "Timetable", and "Queries". The main content area has a title "SELECT DAY" followed by a dropdown menu set to "Tuesday". Below this, there is a table displaying course information:

Course Code	Course Name	Slot	Time
CS101	Introduction to computing	B1	02:00 PM - 03:00 PM
CS345	Software Engineering	A1	03:00 PM - 04:00 PM

## Queries page

Step 1: Click on the queries button on the dashboard and write your query, and hit submit.

The screenshot shows a user interface for submitting a query. At the top, there is a header bar with the text "sajith@iitg.ac.in | Queries" and a "Logout" button. On the left side, there is a sidebar with a logo of the Indian Institute of Technology Guwahati and several navigation links: "Profile", "Add Courses", "View Courses", "Add Grades", "Timetable", and "Queries". The main content area has a table displaying a single complaint entry:

ComplaintID	Desc	Status	Comments
5	My slots are clashing	Pending	NA

Below the table, there is a text input field containing the message "My compulsory courses are clashing!". At the bottom right, there is a blue "Submit" button.

Step 2: You can check the status of the query in the list.



sajith@iitg.ac.in | Queries Logout

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**Profile**

**Add Courses**

**View Courses**

**Add Grades**

**Timetable**

**Queries**

ComplaintID	Desc	Status	Comments
5	My slots are clashing	Resolved	Changed it
8	My compulsory courses are clashing!	Pending	NA

**Submit**

# Admin

## Signup Page

Logging in with the Admin Credentials leads to the opening of the Signup Page that contains the database with students/faculty waiting for their approval into the

The screenshot shows a web application interface titled "Global\_Page". The top navigation bar includes a logo for "Gauhati Institute of Technology, Gauhati", the email "superuser@iitg.ac.in", and a "Logout" button. On the left, there is a sidebar with icons for "SignUp", "Classroom", "Course", and "Permissions". The main content area displays a table of pending approvals:

	Name	DOB	Contact	Address	Email	Approval Status	Designation
<input type="checkbox"/>	Aditya Mandal	2024-02-24	2348734734	dfdsf	test@iitg.ac...	Approved	Student
<input type="checkbox"/>	Soumyadeep	2020-12-16	9123456789	iitg	soumya.de...	Pending	Student
<input type="checkbox"/>	Vijesh	2024-02-20	9482192139	IITG	bhet@gmail...	Approved	Student
<input type="checkbox"/>	mandal	2024-02-20	1234567896	iitg	mandal@iit...	Approved	Student
<input type="checkbox"/>	Aditya Mandal	2024-02-24	9939383327	IITG	aditya.mana...	Rejected	Student
<input type="checkbox"/>	Chandan Ka...	2024-03-20	1234567892	idk iitg maybe	karfa@iitg...	Approved	Faculty
<input type="checkbox"/>	venky	2024-02-15	2353451235	iitg	venky@iitg...	Approved	Faculty

At the bottom of the page are two buttons: "Approve" and "Reject".

Institute.

Step 1: To approve/Reject the students/faculty, we just have to check the box beside their name and click the Approve/Reject button respectively. (It is advised to approve students/faculty with the same Email ID). Given below is how to Approve the record with the name 'Soumyadeep'.

This screenshot shows the same web application interface as the previous one, but with a specific row selected. The row for "Soumyadeep" has a checked checkbox in the first column. The rest of the table and interface are identical to the first screenshot.

Global\_Page

superuser@iitg.ac.in

Logout

The screenshot shows a Windows application window titled "Global\_Page". The top bar includes the email "superuser@iitg.ac.in" and a "Logout" button. On the left, there's a sidebar with icons for "SignUp", "Classroom", "Course", and "Permissions". The main area displays a table of users:

	Name	DOB	Contact	Address	Email	Approval Status	Designation
<input type="checkbox"/>	Aditya Mandal	2024-02-24	2348734734	dfdsf	test@iitg.ac...	Approved	Student
<input checked="" type="checkbox"/>	Soumyadeep	2020-12-16	9123456789	iitg	soumya.de...	Pending	Student
<input type="checkbox"/>	Vijesh	2024-02-20	9482192139	IITG	bhat@gmai...	Approved	Student
<input type="checkbox"/>	mandal	2024-02-20	1234567896	iitg	mandal@iit...	Approved	Student
<input type="checkbox"/>	Aditya Mandal	2024-02-24	9939383327	IITG	aditya.man...	Rejected	Student
<input type="checkbox"/>	Chandan Ka...	2024-03-20	1234567892	idk iitg maybe	karfa@iitg...	Approved	Faculty
<input type="checkbox"/>	venky		X 35	iitg	venky@iitg...	Approved	Faculty

A modal dialog box is centered over the table, displaying "Request Approved" with an "OK" button.

Approve      Reject

Once done, the Approval Status for that record changes to Approved.

Global\_Page

superuser@iitg.ac.in

Logout

The screenshot shows the same Windows application window as before, but now the "Soumyadeep" row in the user table has its "Approval Status" column updated to "Approved". The "OK" button in the approval dialog is also highlighted with a cursor.

	Name	DOB	Contact	Address	Email	Approval Status	Designation
<input type="checkbox"/>	Aditya Mandal	2024-02-24	2348734734	dfdsf	test@iitg.ac...	Approved	Student
<input type="checkbox"/>	Soumyadeep	2020-12-16	9123456789	iitg	soumya.de...	Approved	Student
<input type="checkbox"/>	Vijesh	2024-02-20	9482192139	IITG	bhat@gmai...	Approved	Student
<input type="checkbox"/>	mandal	2024-02-20	1234567896	iitg	mandal@iit...	Approved	Student
<input type="checkbox"/>	Aditya Mandal	2024-02-24	9939383327	IITG	aditya.man...	Rejected	Student
<input type="checkbox"/>	Chandan Ka...	2024-03-20	1234567892	idk iitg maybe	karfa@iitg...	Approved	Faculty
<input type="checkbox"/>	venky	2024-02-15	2353451235	iitg	venky@iitg...	Approved	Faculty

Approve      Reject

## Queries page

Step 1: Click on the queries button on the dashboard to view the queries, you can select the query, type your comment and hit the resolve button..

The screenshot shows the 'Queries' page of a web application. On the left sidebar, there is a logo for 'Indian Institute of Technology Guwahati' and links for 'SignUp', 'Classroom', 'Course', 'Permissions', and 'Queries'. The main content area has a title 'Queries' and a 'Logout' link. Below the title is a table with columns 'ComplaintID', 'Desc', 'Status', and 'Comments'. The table contains 7 rows of data. Row 6 is selected, indicated by a checked checkbox. A message box displays 'Okay processing the issue!'. A large blue button at the bottom right is labeled 'Resolve'.

ComplaintID	Desc	Status	Comments
1	hello trial query for fun	Resol...	Done
2	helel	Resol...	Resolved
3	gggggg	Pendi...	NA
4	grgrgrg	Pendi...	NA
5	My slots are clashing	Pendi...	NA
6	Hi i want a new compulsory course!	Pendi...	NA
7	I have a problem with fee payment	Resol...	Fixed the issue

## Permissions page

The following is the landing page of the permissions page.

The screenshot shows the 'Permissions' page of a web application. On the left sidebar, there is a logo for 'Indian Institute of Technology Guwahati' and links for 'SignUp', 'Classroom', 'Course', and 'Permissions'. The main content area has a title 'Permissions' and a 'Logout' link. Below the title is a table with columns 'Course\_Add', 'Course\_Enroll', 'Grades\_Add', 'Current\_Year', 'Current\_Sem', 'Midsem Start', and 'Endsem Start'. The table shows values: Course\_Add=False, Course\_Enroll=True, Grades\_Add=False, Current\_Year=2024, Current\_Sem=Winter, Midsem Start=2024-02-24, Endsem Start=2024-05-01. There are several buttons for managing course and seating arrangements: 'Enable Course Add', 'Enable Grades Release', 'Generate TimeTable', 'Disable Course Enroll', 'Generate Endsem Seating Arrangement', 'Generate Midsem Seating Arrangement', 'Set Midsem Start Date', and 'Set Endsem Start Date'. The 'Set Midsem Start Date' button is currently being clicked, as indicated by a mouse cursor.

Course_Add	Course_Enroll	Grades_Add	Current_Year	Current_Sem	Midsem Start	Endsem Start
False	True	False	2024	Winter	2024-02-24	2024-05-01

The control of the permissions page is given to the Admin and mainly helps the other entities to execute functions like Enrolling to courses (Student) , adding courses and assigning grades to students (Faculty), setting the dates for the exams and generating Exam Seating Arrangement.

**Enable functionalities:** Below are the steps to enable the Faculties to add courses. The other functionalities can be enabled/disabled accordingly. Since the Course\_Add column shows False, Press the Enable Course Add button.

The screenshot shows a web-based application titled "Global\_Page" with a blue header bar. On the left sidebar, there are four menu items: "SignUp", "Classroom", "Course", and "Permissions". The main content area is titled "Permissions". It contains a table with the following data:

Course_Add	Course_Enroll	Grades_Add	Current_Year	Current_Sem	Midsem Start	Endsem Start
False	True	False	2024	Winter	2024-03-27	2024-05-01

Below the table are several buttons:

- "Enable Course Add" (highlighted with a cursor)
- "Disable Course Enroll"
- "Enable Grades Release"
- "Generate Endsem Seating Arrangement"
- "Generate Midsem Seating Arrangement"
- "Set Midsem Start Date" (with a date picker showing "Sunday, March")
- "Set Endsem Start Date" (with a date picker showing "Sunday, March")

The above event results in the column Course\_Add changing to TRUE.

Global\_Page

Logout

### Permissions

Course_Add	Course_Enroll	Grades_Add	Current_Year	Current_Sem	Midsem Start	Endsem Start
True	True	False	2024	Winter	2024-03-27	2024-05-01

**Buttons:**

- Disable Course Add
- Enable Grades Release
- Generate TimeTable
- Disable Course Enroll
- Generate Endsem Seating Arrangement
- Generate Midsem Seating Arrangement

**Date Pickers:**

- Sunday , March
- Set Midsem Start Date
- Sunday , March
- Set Endsem Start Date

**Generate Seating Arrangement:** Clicking the Generate Seating Arrangement button will result in releasing of the Mid sem and End sem room allocation for each student which can be accessed by each student in their account.

Global\_Page

Logout

### Permissions

Course_Add	Course_Enroll	Grades_Add	Current_Year	Current_Sem	Midsem Start	Endsem Start
True	True	False	2024	Winter	2024-04-02	2024-05-01

**Buttons:**

**Disable Course Add**   **Enable Grades Release**   **Generate TimeTable**

**Disable Course Enroll**   **Generate Seating Arrangement**

**Date Pickers:**

- Sunday , March
- Set Midsem Start Date
- Sunday , March
- Set Endsem Start Date

The screenshot shows the 'Permissions' page of a web application. On the left sidebar, there are links for 'SignUp', 'Classroom', 'Course', and 'Permissions'. The main content area has a title 'Permissions' and a 'Logout' button. Below the title is a table with columns: Course\_Add, Course\_Enroll, Grades\_Add, Current\_Year, Current\_Sem, Midsem Start, and Endsem Start. The data is as follows:

Course_Add	Course_Enroll	Grades_Add	Current_Year	Current_Sem	Midsem Start	Endsem Start
True	True	False	2024	Winter	2024-04-02	2024-05-01

A modal dialog box is centered on the screen, displaying the message "Generated Midsem and Endsem Seating Arrangement Successfully" with an "OK" button. To the right of the modal, there are two date pickers: one for "Set Midsem Start Date" (set to Sunday, March) and another for "Set Endsem Start Date" (set to Sunday, March). A blue button labeled "Generate TimeTable" is located above the date pickers.

## Classroom page

The classroom page displays the list of all classrooms and allows us to add an extra classroom if required. Admin must enter an integer value for capacity.

The screenshot shows the 'Signup' page of a web application. On the left sidebar, there are links for 'SignUp', 'Classroom', 'Course', and 'Permissions'. The main content area has a title 'CLASSROOM TABLE' and a 'Logout' button. Below the title is a table titled 'CLASSROOM TABLE' with columns: Room\_ID, Capacity, and Room\_Type. The data is as follows:

Room_ID	Capacity	Room_Type
5001	100	Classroom
5002	100	Classroom
5003	100	Classroom
5004	100	Classroom
HWS-101	100	BTech Lab
HWS-102	100	BTech Lab
HWS-103	100	BTech Lab
HWS-104	100	BTech Lab
L1	250	Lecture Hall

Below the table, there is a form with three input fields: 'Room ID' (containing 'L1'), 'Capacity' (containing '250'), and 'Room Type' (containing 'Lecture Hall'). A blue 'INSERT' button is positioned below the form.

## Course page

The course page displays the list of all courses offered by the Institute and is to be displayed semester wise. It also contains the functionality to assign a particular course to a professor.

### 1. List of courses for selected semester.

The screenshot shows a web-based application for managing course assignments. On the left, there is a sidebar with the Indian Institute of Technology Guwahati logo and links for SignUp, Classroom, Course, Permissions, and Queries. The main content area has a header "Courses" and "Logout". Below it, a blue bar says "ASSIGN FACULTY". A table lists courses with checkboxes for selecting them. To the right, dropdown menus for "Semester" (set to 3) and "Faculty" (empty) are shown, along with an "Assign" button.

Course Code	Course Name	Semester	Faculty
<input type="checkbox"/> CS201	Discrete Mathematics	3	Benny George K
<input type="checkbox"/> CS203	Algorithms and Data Structures	3	N/A
<input type="checkbox"/> CS204	Algorithms and Data Structures...	3	N/A
<input type="checkbox"/> CS221	Digital Design	3	N/A
<input type="checkbox"/> CS242	System Software Laboratory	3	N/A
<input type="checkbox"/> MA222	Elementary Number Theory an...	3	N/A
<input type="checkbox"/> MA225	Probability Theory and Random...	3	N/A
<input type="checkbox"/> OE301	Financial Literacy for Everyone	3	N/A
<input type="checkbox"/> OE302	Creative Writing Workshop	3	N/A
<input type="checkbox"/> OE303	Introduction to Philosophy	3	N/A

### 2. Select a faculty to assign to selected course

This screenshot shows the same application after a course has been selected. The "CS203" row in the table now has a checked checkbox. The "Faculty" dropdown menu is populated with "Deepanjan Kesh". All other fields remain the same as in the previous screenshot.

Course Code	Course Name	Semester	Faculty
<input type="checkbox"/> CS201	Discrete Mathematics	3	Benny George K
<input checked="" type="checkbox"/> CS203	Algorithms and Data Structures	3	N/A
<input type="checkbox"/> CS204	Algorithms and Data Structures...	3	N/A
<input type="checkbox"/> CS221	Digital Design	3	N/A
<input type="checkbox"/> CS242	System Software Laboratory	3	N/A
<input type="checkbox"/> MA222	Elementary Number Theory an...	3	N/A
<input type="checkbox"/> MA225	Probability Theory and Random...	3	N/A
<input type="checkbox"/> OE301	Financial Literacy for Everyone	3	N/A
<input type="checkbox"/> OE302	Creative Writing Workshop	3	N/A
<input type="checkbox"/> OE303	Introduction to Philosophy	3	N/A

3. After assigning,

The screenshot shows a web-based application for managing course assignments. On the left, there's a sidebar with the institute's logo and links for SignUp, Classroom, Course, Permissions, and Queries. The main area has a header "Courses" and a "Logout" button. Below the header is a section titled "ASSIGN FACULTY". A table lists courses with columns for Course Code, Course Name, Semester, and Faculty. One row for "CS203 Algorithms and Data Structures" is selected. To the right of the table is a modal dialog box with the message "Faculty assigned successfully." and an "OK" button. Above the table, there are dropdown menus for "Semester" (set to 3) and "Faculty" (set to Deepanjan Kesh). At the bottom right of the main area is a large blue "Assign" button.

Course Code	Course Name	Semester	Faculty
<input type="checkbox"/> CS201	Discrete Mathematics	3	Benny George K
<input checked="" type="checkbox"/> CS203	Algorithms and Data Structures	3	N/A
<input type="checkbox"/> CS204	Algorithms and Data Structures	3	N/A
<input type="checkbox"/> CS221	Digital Design		
<input type="checkbox"/> CS242	System Software Laboratory		
<input type="checkbox"/> MA222	Elementary Number Theory		
<input type="checkbox"/> MA225	Probability Theory and Random Variables		
<input type="checkbox"/> OE301	Financial Literacy for Everyone		
<input type="checkbox"/> OE302	Creative Writing Workshop		
<input type="checkbox"/> OE303	Introduction to Philosophy	3	N/A

## 5. Troubleshooting:

Common issues and their solutions

### **Login Issues:**

**Issue:** Unable to login due to incorrect username or password.

**Solution:** Verify the entered credentials and ensure they are correct. Verify that the correct user type is selected.

### **Performance Issues:**

**Issue:** Slow response time or lagging while navigating through the application.

**Solution:** Check internet connectivity.

### **Data Entry Errors:**

**Issue:** Errors encountered while entering or updating data.

**Solution:** Double-check the entered information for accuracy. Review input requirements and formats. Seek guidance from administrators or refer to user documentation for data entry guidelines.

### **System Errors or Crashes:**

**Issue:** Application crashes or displays error messages unexpectedly.

**Solution:** Restart the application and try again.

## 6. Frequently Asked Questions (FAQs):

- 1. How do I register for access to the Academic Management System?**
  - To register, click on the "Register" button on the welcome page and fill out the registration form with your details. Once submitted, your registration request will be reviewed and approved by the system administrator.
- 2. How can I view my grades for the current semester?**
  - To view your grades, log in to the system and navigate to the "Reg. Courses". You will find a list of your enrolled courses along with your corresponding grades for the semester.
- 3. Is there a mobile app available for the Academic Management System?**
  - Currently, there is no dedicated mobile app available for the system. However, you can access the system through our desktop application on PC for convenient access to its features and functionalities.
- 4. How can I update my personal information, such as my contact details?**
  - To update your personal information, log in to the system and navigate to the "Profile" section. You can then edit your contact details and other personal information as needed.
- 5. How long does it take for a registration request to be approved?**
  - Registration requests are typically reviewed and approved by the system administrator within 1-2 business days. If you have not received a response after this time, please contact technical support for assistance.
- 6. Can I access the system from off-campus locations?**
  - Yes, you can access the Academic Management System from any location with an internet connection. Simply log in to the system using your credentials to access its features and functionalities remotely.
- 7. How do I contact my course instructor or academic advisor through the system?**
  - No, you can't directly contact the course instructor or academic advisor. You have the option to reach out to the system administrator. Navigate to the queries section on the dashboard and write your query, and hit submit.