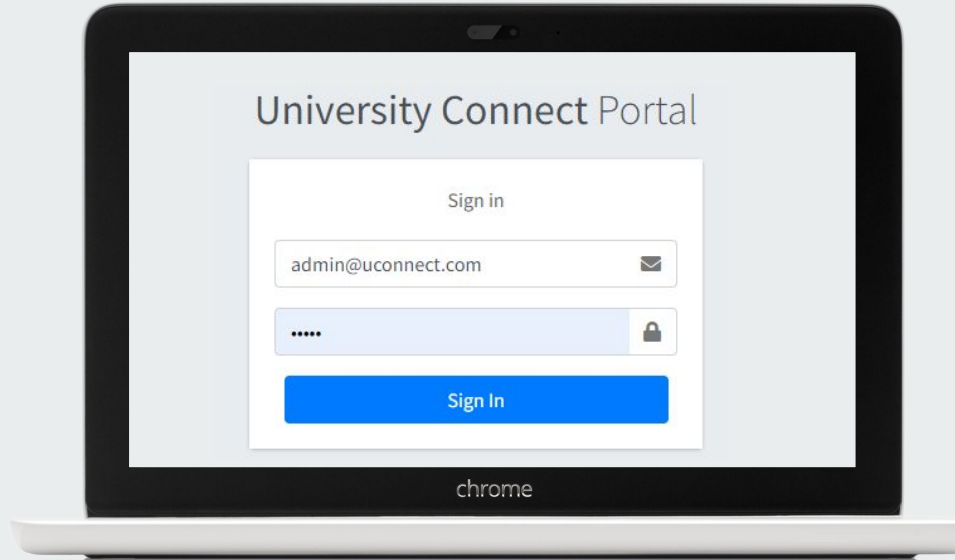




# Microsoft Engage

Palak Goel  
BITS Pilani, K.K. Birla Goa Campus





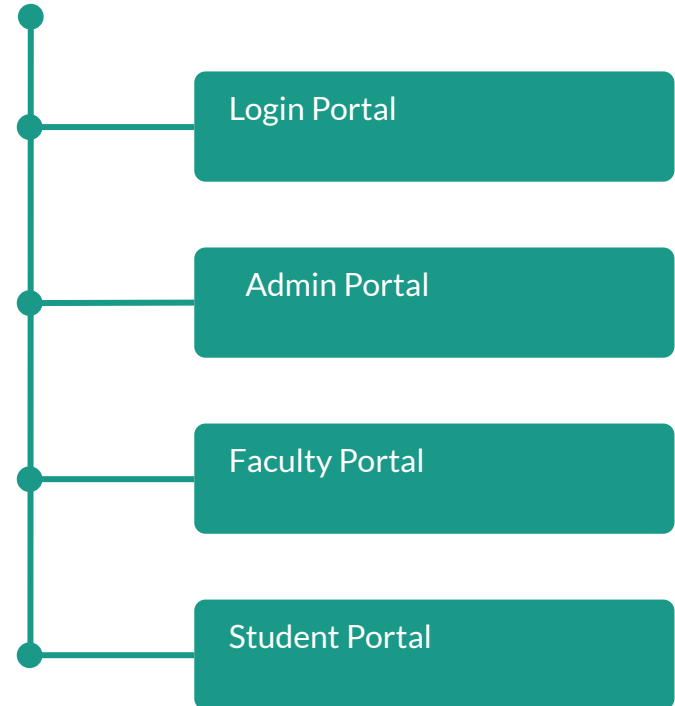
---

# Problem statement

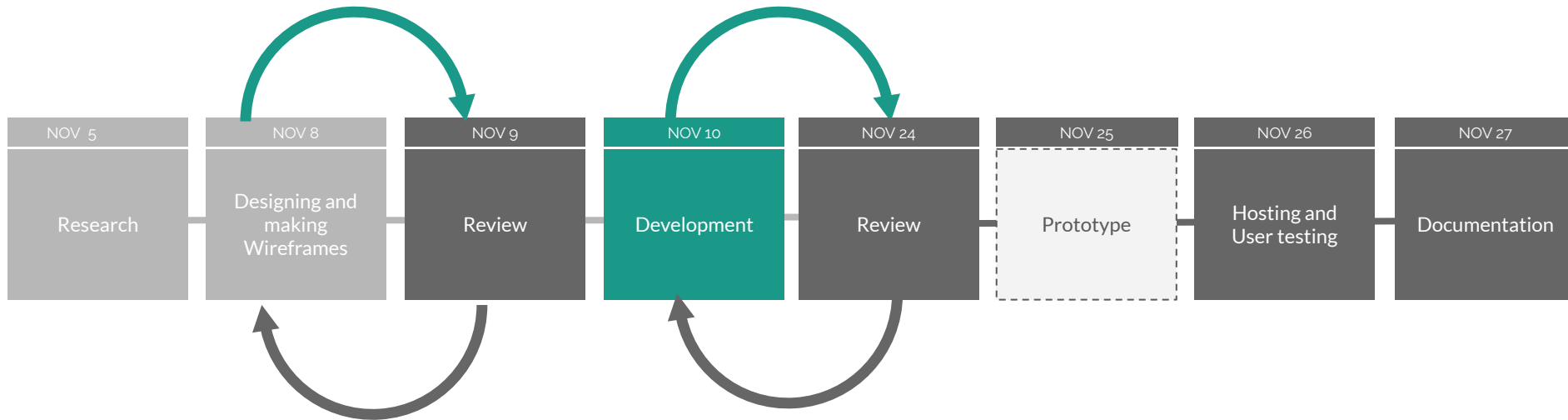
Build a functional prototype of a platform that gives students an array of digital academic and social tools to stay engaged with their studies, peers and broader university community during pandemic

# My Build

An ERP-like web application using a Django backend. There are 3 types of users with different functionalities. The web app is divided into:



# Timeline





# Admin Portal

## Key Features

### Manage:

- Students
- Faculty
- Course (Degree)
- Subjects in each Course
- Leaves of Faculties and Students
- Feedback of Faculties and Students
- Semester

### View:

- Announcements
- Attendance of Students
- Result



# Faculty Portal

## Key Features

### Manage:

- Send Announcements
- Add Result
- Take Attendance
- Give Feedback to admin
- Apply for Leave

### View:

- Students under them
- Subjects they teach



# Student Portal

## Key Features

### View:

- Announcements (only unread ones appear on Dashboard, the rest appear on a separate page)
- Result
- Attendance
- Faculty details (only for those who teach them)
- Subjects (only ones they're studying)

### Manage:

- Give Feedback for admins
- Apply for Leave



Demo



# University Connect Portal

Sign in

Login with respective  
credentials



# Admin Portal



12

Total Students



More info →

5

Total Faculties



More info →

3

Total Courses



More info →

6

Total Subjects



More info →

## Feedbacks

User Name	User Type	Message	Sent On
Faculty2 UConnect	Faculty	Requirement of Electrical Sciences Lab	Nov. 27, 2021, 8:02 p.m.
Faculty UConnect	Faculty	We should add few more subjects to B.E .Computer Science	Nov. 27, 2021, 7:57 p.m.
Student UConnect	Student	Shifting of exam dates as it is clashing with our placements.	Nov. 27, 2021, 7:54 p.m.

# Manage Faculty

+ Add Faculty

Faculty Details								
First Name	Last Name	Username	Email	Address	Last Login	Date Joined	Action	
Faculty	UConnect	faculty	faculty@uconnect.com	Remote	Nov. 27, 2021, 7:56 p.m.	Nov. 22, 2021, 11:46 a.m.	<a href="#">Edit</a>	<a href="#">Delete</a>
Faculty1	UConnect	faculty1	faculty1@uconnect.com	Remote	Nov. 27, 2021, 7:59 p.m.	Nov. 25, 2021, 7:53 p.m.	<a href="#">Edit</a>	<a href="#">Delete</a>
Faculty2	UConnect	faculty2	faculty2@uconnect.com	Remote	Nov. 27, 2021, 8:01 p.m.	Nov. 22, 2021, 11:47 a.m.	<a href="#">Edit</a>	<a href="#">Delete</a>
Faculty3	UConnect	faculty3	faculty3@uconnect.com	House No. xxxx, Sector 31, Gurgoan	Nov. 26, 2021, 4:35 p.m.	Nov. 25, 2021, 8:35 p.m.	<a href="#">Edit</a>	<a href="#">Delete</a>
Faculty4	UConnect	faculty4	faculty4@uconnect.com	Remote	Nov. 26, 2021, 4:40 p.m.	Nov. 25, 2021, 8:37 p.m.	<a href="#">Edit</a>	<a href="#">Delete</a>

## Add Faculty

Add Faculty

Email address

Username

Password

First Name

Last Name


Address

Add Faculty

## Manage Student

[Home](#)[+ Add Student](#)

## Student Details

First Name	Last Name	Username	Email	Address	Gender	Profile Pic	Start Year	End Year	Course	Last Login	Date Joined	Action
Student	UConnect	student	student@uconnect.com	Remote	Male		Jan. 1, 2021	May 31, 2021	B.E. Computer Science	Nov. 27, 2021, 7:49 p.m.	Nov. 22, 2021, 12:45 p.m.	<a href="#">Edit</a> <a href="#">Delete</a>
Student1	UConnect	Student1	student1@uconnect.com	Remote	Male		Aug. 1, 2021	Dec. 15, 2021	B.E. Electronics and Communication	None	Nov. 25, 2021, 9:34 p.m.	<a href="#">Edit</a> <a href="#">Delete</a>
Student10	UConnect	student10	student10@uconnect.com	Remote	Female		Jan. 1, 2021	May 31, 2021	B.E. Electronics and Communication	None	Nov. 26, 2021, 12:32 p.m.	<a href="#">Edit</a> <a href="#">Delete</a>
Student11	UConnect	student11	student11@uconnect.com	Remote	Male		Aug. 1, 2021	Dec. 15, 2021	M.Sc. Economics	Nov. 26, 2021, 10:28 p.m.	Nov. 26, 2021, 12:36 p.m.	<a href="#">Edit</a> <a href="#">Delete</a>
Student12	UConnect	student12	student12@uconnect.com	Remote	Male		Jan. 1, 2021	May 31, 2021	B.E. Computer Science	Nov. 27, 2021, 7:10 p.m.	Nov. 26, 2021, 12:43 p.m.	<a href="#">Edit</a> <a href="#">Delete</a>
Student2	UConnect	Student2	student2@uconnectc.com	XYZ	Female		Jan. 1, 2021	May 31, 2021	M.Sc. Economics	None	Nov. 27, 2021, 8:28 p.m.	<a href="#">Edit</a> <a href="#">Delete</a>
Student3	UConnect	student3	student3@uconnect.com	Remote	Female		Aug. 1, 2021	Dec. 15, 2021	B.E. Computer Science	Nov. 26, 2021, 5:10 p.m.	Nov. 22, 2021, 12:46 p.m.	<a href="#">Edit</a> <a href="#">Delete</a>
Student4	UConnect	Student4	student4@uconnect.com	Remote	Female		Jan. 1, 2021	May 31, 2021	B.E. Electronics and Communication	Nov. 26, 2021, 5:11 p.m.	Nov. 25, 2021, 9:37 p.m.	<a href="#">Edit</a> <a href="#">Delete</a>
Student5	UConnect	Student5	student5@uconnect.com	Remote	Male		Aug. 1, 2021	Dec. 15, 2021	M.Sc. Economics	Nov. 26, 2021, 5:12 p.m.	Nov. 26, 2021, 12:02 p.m.	<a href="#">Edit</a> <a href="#">Delete</a>
Student6	UConnect	Student6	student6@uconnect.com	Hostel	Male		Jan. 1, 2021	May 31, 2021	B.E. Computer Science	Nov. 26, 2021, 9:20 p.m.	Nov. 26, 2021, 12:16 p.m.	<a href="#">Edit</a> <a href="#">Delete</a>

Add Student

Email:

Password:

First Name:

Last Name:

Username:

Address:

Course:

B.E. Computer Science

Gender:

Male

Semester:

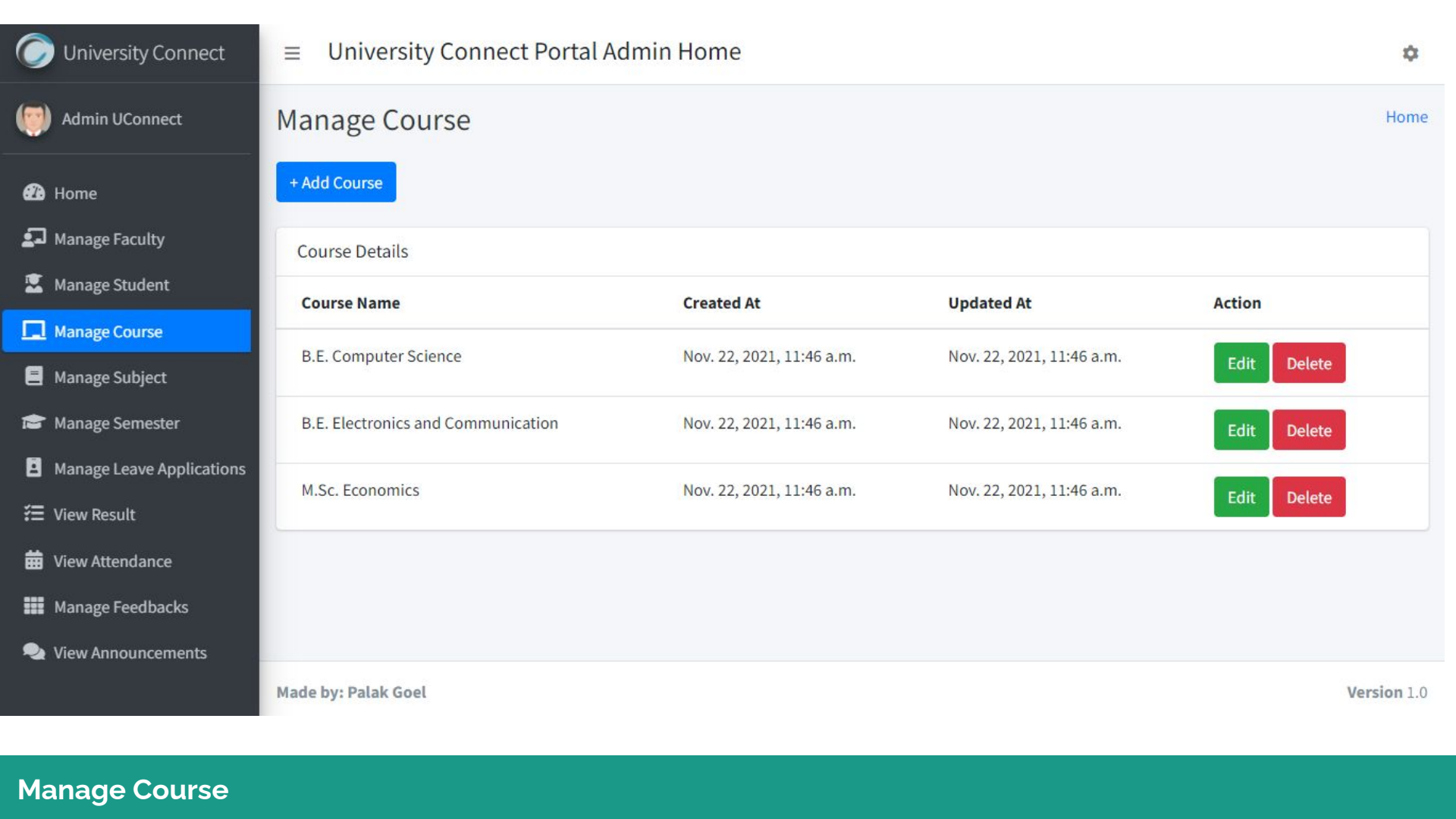
2021-01-01 to 2021-05-31

Profile Pic:

Choose File

No file chosen

Add Student



## Manage Course

[Home](#)

+ Add Course

Course Details			
Course Name	Created At	Updated At	Action
B.E. Computer Science	Nov. 22, 2021, 11:46 a.m.	Nov. 22, 2021, 11:46 a.m.	<a href="#">Edit</a> <a href="#">Delete</a>
B.E. Electronics and Communication	Nov. 22, 2021, 11:46 a.m.	Nov. 22, 2021, 11:46 a.m.	<a href="#">Edit</a> <a href="#">Delete</a>
M.Sc. Economics	Nov. 22, 2021, 11:46 a.m.	Nov. 22, 2021, 11:46 a.m.	<a href="#">Edit</a> <a href="#">Delete</a>



## Manage Subjects

Home

[+ Add Subject](#)

### Subject Details

Subject Name	Course	Faculty	Created At	Updated At	Action
Communication Network	B.E. Electronics and Communication	faculty3	Nov. 26, 2021, 12:50 p.m.	Nov. 26, 2021, 12:50 p.m.	<a href="#">Edit</a> <a href="#">Delete</a>
Computer Programming	B.E. Computer Science	faculty	Nov. 22, 2021, 11:49 a.m.	Nov. 22, 2021, 11:49 a.m.	<a href="#">Edit</a> <a href="#">Delete</a>
Data Structure & Algorithm	B.E. Computer Science	faculty1	Nov. 26, 2021, 3:38 p.m.	Nov. 26, 2021, 3:38 p.m.	<a href="#">Edit</a> <a href="#">Delete</a>
Electrical Sciences	B.E. Electronics and Communication	faculty2	Nov. 22, 2021, 11:49 a.m.	Nov. 22, 2021, 11:54 a.m.	<a href="#">Edit</a> <a href="#">Delete</a>
Fundamental Of Finance & Accounting	M.Sc. Economics	faculty4	Nov. 26, 2021, 3:43 p.m.	Nov. 26, 2021, 3:43 p.m.	<a href="#">Edit</a> <a href="#">Delete</a>
Principle of Economics	M.Sc. Economics	faculty4	Nov. 26, 2021, 3:40 p.m.	Nov. 26, 2021, 3:40 p.m.	<a href="#">Edit</a> <a href="#">Delete</a>



## Manage Semester

[Home](#)[+ Add Semester](#)

### Semester Details

Start Year	End Year	Action
Jan. 1, 2021	May 31, 2021	<a href="#">Edit</a> <a href="#">Delete</a>
Aug. 1, 2021	Dec. 15, 2021	<a href="#">Edit</a> <a href="#">Delete</a>

## Manage Leave Applications

[Home](#)

Leave Applications							
User Type	Name	Leave Start Date	Leave End Date	Leave Message	Applied On	Action	Remove
Faculty	Faculty UConnect	Nov. 25, 2021	Nov. 29, 2021	Vaccation	Nov. 26, 2021, 4:06 p.m.	<button>Approved</button> <button>Clear</button>	<button>Delete</button>
Faculty	Faculty2 UConnect	Nov. 29, 2021	Nov. 30, 2021	Not feeling well	Nov. 26, 2021, 4:28 p.m.	<button>Rejected</button> <button>Clear</button>	<button>Delete</button>
Faculty	Faculty4 UConnect	Nov. 30, 2021	Nov. 30, 2021	Family Vaccation	Nov. 26, 2021, 4:46 p.m.	<button>Approve</button> <button>Reject</button>	<button>Delete</button>



## View Attendance

[Home](#)

### View Attendance

**Subject**

Computer Programming

**Semester**

Jan. 1, 2021 to May 31, 2021

[Fetch Attendance Date](#)

## View Attendance

## View Attendance

## Subject

Computer Programming

## Semester

Jan. 1, 2021 to May 31, 2021

Fetch Attendance Date

## Attendance Date

2021-02-18

Fetch Student Data

## Student Attendance:

Student UConnect [ **Present** ]Student6 UConnect [ **Present** ]Student12 UConnect [ **Present** ]

## Feedbacks

[Home](#)

Feedback				
User Name	User Type	Message	Sent On	Reply
Faculty2 UConnect	Faculty	Requirement of Electrical Sciences Lab	Nov. 27, 2021, 8:02 p.m.	Will look into this.
Faculty UConnect	Faculty	We should add few more subjects to B.E .Computer Science	Nov. 27, 2021, 7:57 p.m.	<button>Reply</button>
Student UConnect	Student	Shifting of exam dates as it is clashing with our placements.	Nov. 27, 2021, 7:54 p.m.	<button>Reply</button>

## Announcements

[Home](#)

Announcements							
Subject	Faculty Name	Message	Link	Attachment	Created At	Updated At	Delete
Computer Programming	Faculty UConnect	Read the attached Assignment	<a href="https://towardsdatascience.com/10-graph-algorithms-visually-explained-e57faa1336f3">https://towardsdatascience.com/10-graph-algorithms-visually-explained-e57faa1336f3</a>	Winter 2019 assignment.pdf	Nov. 24, 2021, 3:22 p.m.	Nov. 26, 2021, 11:11 p.m.	Delete
Electrical Sciences	Faculty2 UConnect	This is an announcement regarding E.S. course		No attachment	Nov. 26, 2021, 2:40 p.m.	Nov. 27, 2021, 2:05 p.m.	Delete



13

Total Students

More info →

5

Total Faculties

More info →

3

Total Courses

More info →

6

Total Subjects

More info →

Signout from  
here

Update Profile

Logout

## Feedbacks

User Name	User Type	Message	Sent On
Faculty2 UConnect	Faculty	Requirement of Electrical Sciences Lab	Nov. 27, 2021, 8:02 p.m.
Faculty UConnect	Faculty	We should add few more subjects to B.E .Computer Science	Nov. 27, 2021, 7:57 p.m.
Student UConnect	Student	Shifting of exam dates as it is clashing with our placements.	Nov. 27, 2021, 7:54 p.m.



# Faculty Portal

## Faculty Home

[Home](#)

Home

View Subjects

View Students

Apply for Leave

Add Results

Take Attendance

View Update Attendance

Feedback

Announcement

5

Students Under Me



More info →

2

Total Attendance Taken



More info →

5

Total Leave Taken




More info →


1


Total Subjects





More info →


 University Connect


 Faculty UConnect


 Home


 View Subjects


 View Students


 Apply for Leave

 Add Results

 Take Attendance

 View Update Attendance

 Feedback

 Announcement

View Subjects

[Home](#)

Subject Details	
Subject Name	Course
Computer Programming	B.E. Computer Science

## View Subjects

### Student Details

Name	Email	Semester	Course
Student UConnect	student@uconnect.com	2021-01-01 to 2021-05-31	B.E. Computer Science
Student12 UConnect	student12@uconnect.com	2021-01-01 to 2021-05-31	B.E. Computer Science
Student3 UConnect	student3@uconnect.com	2021-08-01 to 2021-12-15	B.E. Computer Science
Student6 UConnect	student6@uconnect.com	2021-01-01 to 2021-05-31	B.E. Computer Science
Student9 UConnect	student9@uconnect.com	2021-08-01 to 2021-12-15	B.E. Computer Science

## Apply For Leave

## Leave Start Date

dd-mm-yyyy



## Leave End Date

dd-mm-yyyy



## Leave Reason

Leave Message

November, 2021



Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5
6	7	8	9	10	11	12

Clear

Today

Apply for Leave

## Leave Apply History

Leave Start Date	Leave End Date	Leave Message	Status	Remove
Nov. 25, 2021	Nov. 29, 2021	Vaccation	Approved	Delete

## Add Result

[Home](#)

## Add Result

## Subject

Computer Programming

## Semester

2021-01-01 to 2021-05-31

Fetch Student

Student	Subject	Assignments Marks	Exam Marks	Status
Student3 UConnect	Computer Programming	100.0	200.0	Pass
Student UConnect	Computer Programming	40.0	10.0	Fail
Student6 UConnect	Computer Programming	20.0	65.0	Pass

## Add Result

[Home](#)

### Add Result

#### Subject

Computer Programming

#### Semester

2021-01-01 to 2021-05-31

Fetch Student

#### Student List

Student UConnect

#### Assignment Marks :

Assignment Marks

#### Exam Marks :

Exam Marks

Save Result



## Take Attendance

### Take Attendance

#### Subject

Computer Programming

#### Semester

2021-01-01 to 2021-05-31

Fetch Student

#### Attendance Date:

dd-mm-yyyy

☒ Student UConnect

☒ Student6 UConnect

☒ Student12 UConnect

Save Attendance Data



University Connect



Faculty UConnect



Home



View Subjects



View Students



Apply for Leave



Add Results



Take Attendance



View Update Attendance



Feedback



Announcement



University Connect Portal | Faculty Dashboard



## View Update Attendance

[Home](#)

### View Update Attendance

#### Subject

Computer Programming



#### Semester

Jan. 1, 2021 to May 31, 2021



Fetch Attendance Date

## Feedback Message

[Home](#)

### Leave a Feedback Message

#### Feedback Message

Feedback Message

Leave a Feedback

### Feedback History

#### Feedback Message

#### Feedback Reply

We should add few more subjects to B.E .Computer Science

## Send an Announcement

Subject:

Computer Programming

Message:

URL:

Upload a File:

 No file chosen

## Announcement History

Subject	Announcement	Additional Link	Attachments	Sent On	Edit/Delete
Computer Programming	Read the attached Assignment	<a href="https://towardsdatascience.com/10-graph-algorithms-visually-explained-e57faa1336f3">https://towardsdatascience.com/10-graph-algorithms-visually-explained-e57faa1336f3</a>	Winter 2019 assignment.pdf	Nov. 24, 2021, 3:22 p.m.	<input type="button" value="Edit"/> <input type="button" value="Delete"/>



# Student Portal

## Student Home

[Home](#)

🏠 Home

📅 View Subjects

👤 View Faculty

📄 Apply for Leave

📊 View Result

📅 View Attendance

💬 Send Feedback

📢 Announcements

2

Total Attendance

More info ➡

0

Leaves

More info ➡

2

Faculties

More info ➡

2

Total Subjects

More info ➡

## Announcements

📧 **Faculty1 UConnect** **Data Structure & Algorithm**

— Nov. 27, 2021, 11:14 p.m.

Prepare well for tomorrow's test. You can practice questions on this platform

Link: <https://www.interviewbit.com/practice/>

Unread Announcements



## View Subjects

[Home](#)

Subject Details

Subject Name	Course
Computer Programming	B.E. Computer Science
Data Structure & Algorithm	B.E. Computer Science

## Faculty

### Faculty Details

Name	Email	Address
Faculty UConnect	faculty@uconnect.com	Remote
Faculty1 UConnect	faculty1@uconnect.com	Remote



## Apply For Leave

### Leave Start Date

dd-mm-yyyy



### Leave End Date

dd-mm-yyyy



### Leave Reason

Leave Message

Apply for Leave

## Leave Apply History

Leave Start Date

Leave End Date

Leave Message

Status

Remove



University Connect



Student UConnect



Home



View Subjects



View Faculty



Apply for Leave



View Result



View Attendance



Send Feedback



Announcements



University Connect Portal | Student Dashboard



## See Results

[Home](#)

### Results

Subject	Assignments Marks	Exam Marks	Status
Computer Programming	40.0	10.0	Fail

View Results



## View Attendance Data

### View Attendance

#### Subject



#### Start Date



#### End Date


[Fetch Attendance](#)


November, 2021 ▾





Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5
6	7	8	9	10	11	12


[Clear](#)[Today](#)


University Connect


Student UConnect


Home


View Subjects


View Faculty

Apply for Leave


View Result

View Attendance

Send Feedback

Announcements

University Connect Portal | Student Dashboard



Feedback Message

Home

Leave a Feedback Message

Feedback Message

Feedback Message

Leave a Feedback

Feedback History

Feedback Message

Feedback Reply

Shifting of exam dates as it is clashing with our placements.

## Announcements

### Announcements

#### Faculty1 UConnect **Data Structure & Algorithm**

— Nov. 27, 2021, 11:14 p.m.

Prepare well for tomorrow's test. You can practice questions on this platform

Link: <https://www.interviewbit.com/practice/>

#### **Faculty UConnect** **Computer Programming**

— Nov. 24, 2021, 3:22 p.m.

Read the attached Assignment

Link: <https://towardsdatascience.com/10-graph-algorithms-visually-explained-e57faa1336f3>

[Winter 2019 assignment.pdf](#)

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**Thank You**