

2025

Project Proposal (UniConnect)

SOFTWARE ENGINEERING PROJECT

UniConnect: University Application Management System

-Connecting students to their futures

1. Introduction

Title:

UniConnect: University Application Management System

Objective:

To provide a **centralized platform** where undergraduate students can access comprehensive information about universities, including programs, admission criteria, deadlines, and merit requirements. UniConnect simplifies university selection by consolidating all necessary details under one roof, ensuring a seamless and informed admission process.

Background:

Many students struggle with university admissions due to a lack of centralized and accessible information. They often face confusion regarding available universities, merit requirements, and admission procedures. UniConnect aims to bridge this gap by providing a user-friendly platform that simplifies university selection and admission guidance.

Description:

UniConnect is a digital solution designed to streamline the university admission process. It allows students to:

- Explore universities offering their desired programs.
- Compare admission criteria and merit requirements.
- Receive step-by-step guidance on the application process.
- Save time and effort by accessing centralized university information in one place.

2. Problem Statement

Many students, especially first-time applicants, struggle with university selection due to scattered and unstructured information. They face difficulties in:

- Identifying universities that offer their desired programs.
- Understanding admission criteria, including merit percentages, entry test requirements, and application deadlines.
- Making informed decisions due to a lack of reliable and consolidated guidance.

This lack of structured information results in stress, missed opportunities, and confusion.
UniConnect aims to eliminate these issues by offering a well-organized and user-friendly platform that ensures **no student faces the same difficulties we did** (while applying for universities).

3. Aims & Objectives

- Develop a user-friendly application.
- Provide centralized university information for easy access.
- Simplify decision-making by offering personalized recommendations.
- Offer step-by-step guidance throughout the admission process.
- Streamline access to essential information, reducing the hassle of searching across multiple sources.

4. Functional Requirements

- User Registration & Authentication
- Student Module
- University Information Management
- Admission & Testing Module
- Admin Module
- Search & Filtering
- Step-by-Step Admission Guidance
- Bookmark & Save Universities
- Notifications & Updates
- Discussion Forum

5. Non-Functional Requirements

NFR01: Usability

The system should have a simple and intuitive user interface that is easy to navigate for students, parents, and administrators. It should provide clear instructions for the application process, with accessible help sections and FAQs. The design should ensure that even first-time users can complete tasks without confusion.

NFR02: Performance

The system should load pages quickly and efficiently, with response times not exceeding 5 seconds for key operations like searching for universities or submitting applications. It should handle multiple users at the same time without slowing down, especially during peak admission periods.

NFR03: Reliability

The system should be highly reliable, ensuring minimal downtime. It should be able to recover from failures without data loss and provide notifications in case of maintenance or unexpected issues. User progress should be automatically saved to prevent loss of information.

NFR04: Security Requirements

User data, including passwords and personal details, should be securely stored and encrypted. Only authorized users should have access to sensitive information. The system should include security features like role-based access control to protect against unauthorized access.

NFR05: Scalability

The system should be designed to handle growth, allowing for an increasing number of users and universities without performance issues. It should be flexible enough to support new features and future integrations as needed.

6. Requirement Specification Document

Stakeholders for University Admissions System

Stakeholder	Description
Students	Primary users of the system who register, search for universities, compare options, apply for admissions, and participate in discussions.
University Administrators	Responsible for managing university-related information such as admission deadlines, programs, fee structures, and merit criteria.
System Administrators	Oversee the overall system, manage user access, moderate discussion forums, and ensure data security.
Parents/Guardians	May use the system to explore universities, admission requirements, scholarships, and financial aid options for their children.
Teachers & Career Counsellors	Provide guidance to students by recommending universities and entrance tests based on academic backgrounds.

Stakeholder	Description
Government & Educational Authorities	Monitor the admission process, ensure compliance with educational policies, and provide accreditation information.
IT Developers & System Engineers	Responsible for designing, developing, testing, and maintaining the system.

1. Stakeholders

FR01: User Registration & Authentication

FR#	Requirement Description
FR01-01	The system shall allow students and admins to create an account using Name, Email and Password.
FR01-02	The system shall allow users to log in using their email and password.
FR01-03	The system shall provide an option to reset the password in case the user forgets it.

2. 1 Req Registration

FR02: Student Module

FR#	Requirement Description
FR02-01	The system shall allow students to manage their profiles, including Name, Email, Phone Number, and CNIC
FR02-02	The system shall allow students to enter their academic information, including Matric/FSC/O-Level/A-Level Marks.
FR02-03	The system shall allow students to select their next interest category (Science, Arts, Medical, Engineering, Business, etc.).

2. 2 Req Student

FR03: University Information Management

FR#	Requirement Description
FR03-01	The system shall provide a list of universities.
FR03-02	The system shall display university details, including Names, Locations, and Rankings.
FR03-03	The system shall display university admission schedules and deadlines.
FR03-04	The system shall list available departments and programs in each university.
FR03-05	The system shall display the fee structure of universities (Annual & Semester-wise).

2. 3 Req University Information Management

FR04: Admission & Testing Module

FR#	Requirement Description
FR04-01	The system shall provide information about university admission tests.
FR04-02	The system shall allow students to check admission test fees.
FR04-03	The system shall calculate, and display merit based on student data.
FR04-04	The system shall update and display eligibility criteria for various programs.

2. 4 Req Admission & Testing Module

FR05: Admin Module

FR#	Requirement Description
FR05-01	The system shall allow admins to manage university data.
FR05-02	The system shall allow admins to give important announcements.
FR05-03	The system shall allow admins to update semester system information.

FR#	Requirement Description
FR05-04	The system shall allow admins to update campus and contact information.
FR05-05	The system shall allow admins to add, edit, and update university programs, merit criteria, and admission deadlines.
FR05-06	The system shall allow admins to answer students queries.

2. 5 Req Admin Module

FR06: Search & Filtering

FR#	Requirement Description
FR06-01	The system shall allow users to search for universities based on: University Name, Location (City, Region, Country), Programs Offered.
FR06-02	The system shall allow users to filter universities based on their academic interests: Medical, Engineering, Business, Arts, Other fields.

2. 6 Req Search and filter

FR07: Step-by-Step Admission Guidance

FR#	Requirement Description
FR07-01	Application Process (Step-by-step guide, list of required documents).

2. 7 Req Step-by-Step Admission Guidance

FR08: Bookmark & Save Universities

FR#	Requirement Description
FR08-01	The system shall allow users to bookmark or save universities for easy reference later.

FR#	Requirement Description
FR08-02	The system shall provide a dashboard where users can view saved universities, deadlines, and updates.

2. 8 Req Bookmark & Save Universities

FR09: Notifications & Alerts

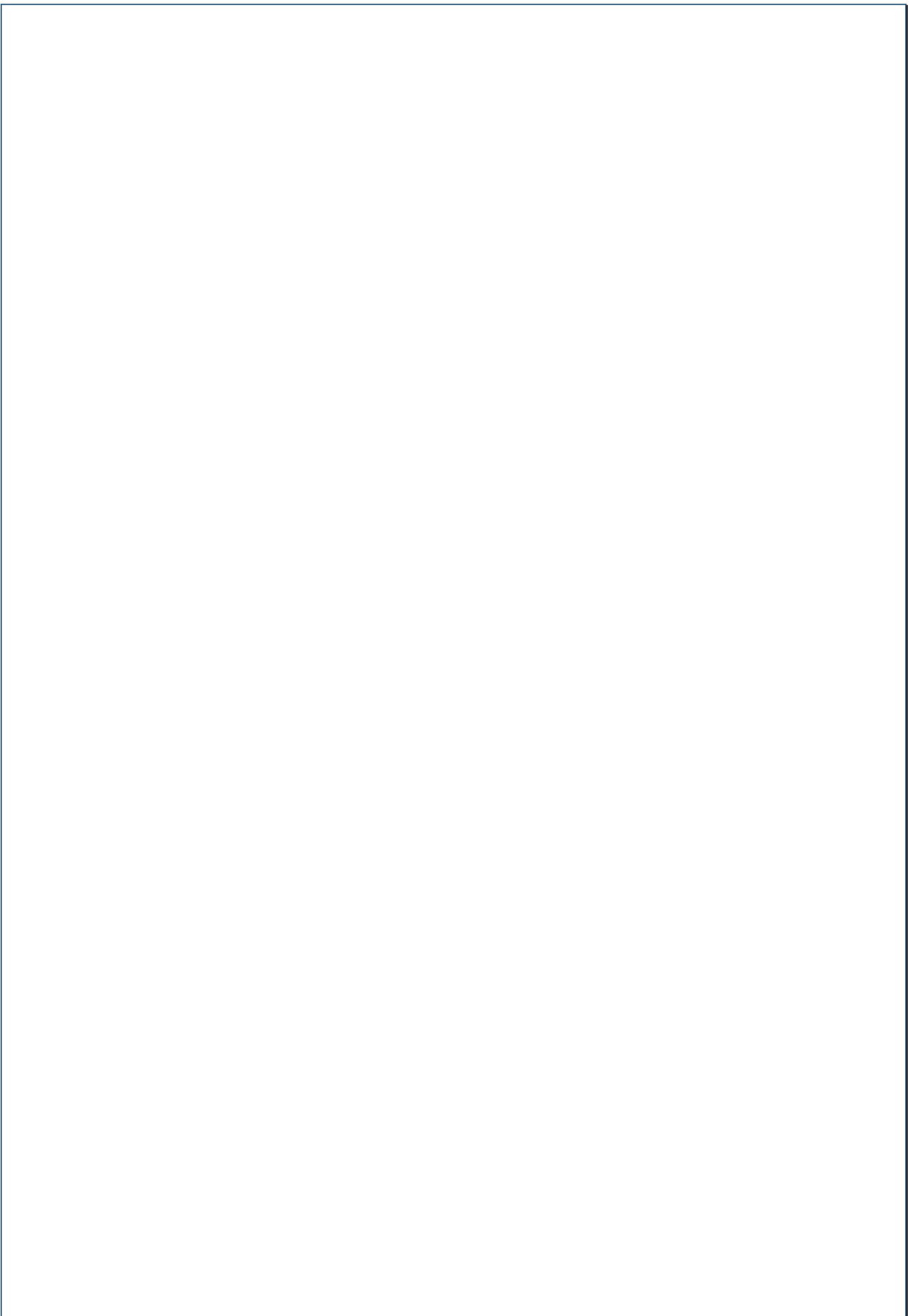
FR#	Requirement Description
FR09-01	The system shall send alerts to users about important upcoming admission deadlines.
FR09-02	The system shall send notifications for university updates (e.g., program changes, extended deadlines).

2. 9 Req Notifications & Alerts

FR10: Discussion Forum

FR#	Requirement Description
FR10-01	The system shall allow students to create discussion posts related to university admissions, entrance tests, scholarships, and general queries.
FR10-02	The system shall allow users to comment on posts and reply to other comments.
FR10-03	The system shall support threaded discussions for better organization of conversations.
FR10-04	The system shall allow users to like or upvote helpful posts and comments.
FR10-05	The system shall allow users to report inappropriate or spam content.
FR10-06	The system shall allow admins to moderate discussions and remove inappropriate content.
FR10-07	The system shall allow users to search for discussion topics and filter posts by category.

2. 10 Req Discussion Forums





GET STARTED



Real-time Admission Alerts

*Stay updated with deadlines,
merit lists and admission
announcements*





One-Click Application Tracking

Easily track your application progress and document status in one place



SIGN UP

LOG IN

SIGN UP

Just few things to get sorted



Email



Username



Password

Create account

Already have an account? [Log in](#)



PERSONAL DETAILS



ENTER YOUR FULL NAME

ENTER YOUR FATHER'S NAME

ENTER YOUR CNIC NUMBER

SELECT YOUR DOB

SELECT YOUR GENDER

SELECT YOUR CITY

SELECT YOUR PROVINCE

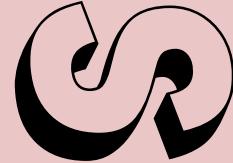
ENTER YOUR PHONE NUMBER

SAVE



ACADEMIC DETAILS

ENTER YOUR MATRIC SCORE



SELECT YOUR MATRIC BOARD



SELECT YOUR GROUP

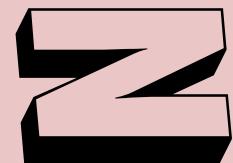


SELECT YEAR

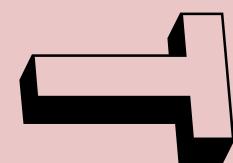
CHOOSE YOUR INTERMEDIATE GROUP



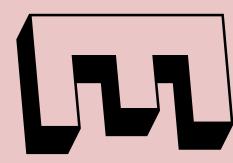
CHOOSE YOUR INTERMEDIATE STREAM



ENTER YOUR INTERMEDIATE PART I MARKS



ENTER YOUR INTERMEDIATE PART II MARKS (IF
ANNOUNCED)



SELECT YEAR



SELECT YOUR BOARD

SAVE

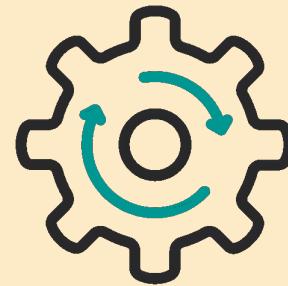
TELL US ABOUT YOUR INTEREST



MEDICAL



ENGINEERING



ARTS



BUSINESS



CS/SE/IT



I DON'T
KNOW MY
INTEREST



LOGIN

Hello, welcome back



Username



Password

Log in

[Forgot Password](#)

Don't have an account? [Sign up](#)

< Forgot Password



Forgot password?

PLEASE WRITE YOUR EMAIL TO
RECEIVE A CONFIRMATION CODE

Email Address

Confirm Mail

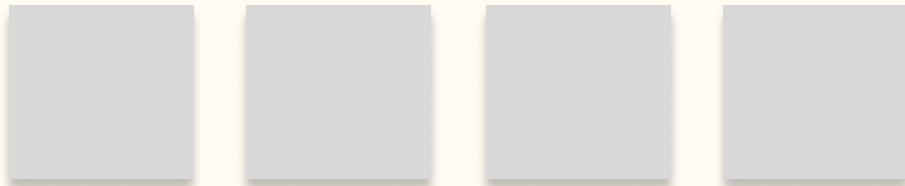
Confirm Mail

< Verification Code



Verify email address

VERIFICATION CODE SENT TO EMAIL



Confirm Code

< New Password

New Password

PLEASE ENTER YOUR NEW PASSWORD

Password

Confirm Password

Confirm Password



Search



Saved



Merit



Discussion Forum



Guidance



Scholarships

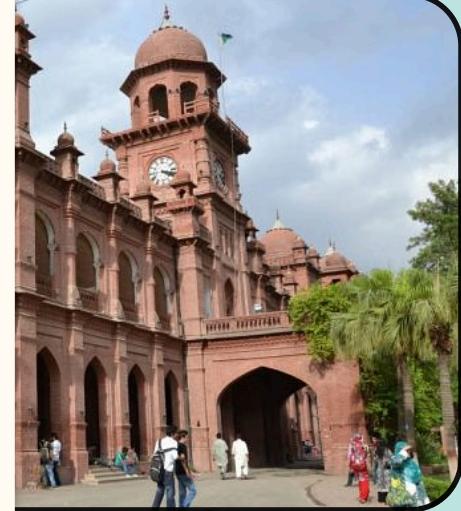




Profile

FAQs

Settings



ed Merit



n Forum



ce



Status

← Log Out





EXPLORE UNIVERSITIES

Explore more.....



QUA

RANK # 01

EXPLORE



PU

RANK#03

EXPLORE



AGHA KHAN

RANK#05

EXPLORE

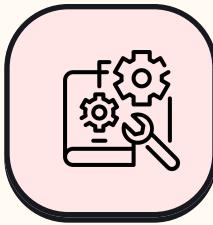




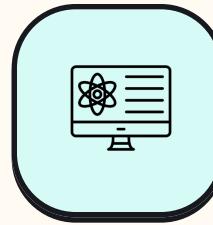
Search your future ...



Medical



Engineering



CS



Business

Recent Searches

Comsats University Islamabad

FAST NUCES Lahore



Comsats University Islamabad

The COMSATS University Islamabad, founded in the belief that understanding enriches all people, is dedicated to the search for truth through advancement of learning and extending the frontiers of knowledge.....



Reviews

[View more ...](#)



Sabiha Usman

"COMSATS: Top-tier tech education with a lively campus vibe!"

APPLY

3/10

2022 HEC rankings for Computer Science

STEP BY STEP ADMISSION PROCESS GUIDANCE

"Step by step, we illuminate the way."



Swipe

STEP 01:

GATHER REQUIRED DOCUMENTS

Before applying, ensure you have:

- ✓ CNIC/B-Form & Guardian's CNIC**
- ✓ Matric/O-Level Certificate & Result Card**
- ✓ FSC/A-Level Certificate & Result Card
(or Part 1 result if awaiting Part 2)**
- ✓ Equivalence Certificate (for O/A Level students – from IBCC)**
- ✓ Passport-size Photographs (with white background)**
- ✓ Domicile (Some universities require it)**



STEP 02:

SELECT UNIVERSITIES AND APPLY FOR ENTRANCE EXAMS

Select universities based on your interest using UniConnect

Most universities require an entry test. Depending on your program:

- For Engineering – ECAT (UET), NUST NET, FAST Test, PIEAS Test
- For Medical – MDCAT (PMC)
- For Business/IT/Other Fields – University-specific tests (IBA, LUMS, COMSATS, etc.)

-  Register online & download the admit card
-  Prepare for the test using past papers & preparatory books



STEP 03:



APPLICATION AND ENROLLMENT

PROCESS

Once registered for the test:

Visit the university's admission portal

Create an account & fill in personal/academic details

Check your merit using UniConnect merit calculator.

Upload scanned copies of required documents

Pay the application fee (via bank deposit, online transfer, or mobile wallets)

Submit the application & download the confirmation receipt

 After the merit list is announced:

- ✓ If selected, download the fee challan and pay within the deadline
- ✓ Submit original documents if required
- ✓ Collect your student ID & enrollment confirmation



MERIT CALCULATOR

CLICK ON THE UNIVERSITY TO CALCULATE YOUR MERIT

GIKI

PIEAS

LSE

CUI

NUST

LUMS

UVAS

LUMS

PU

FAST

UET

UHS

NUST

IBA

QAU

NUML

UOL

NCA

AID

GCU

HCR



Home



Profile



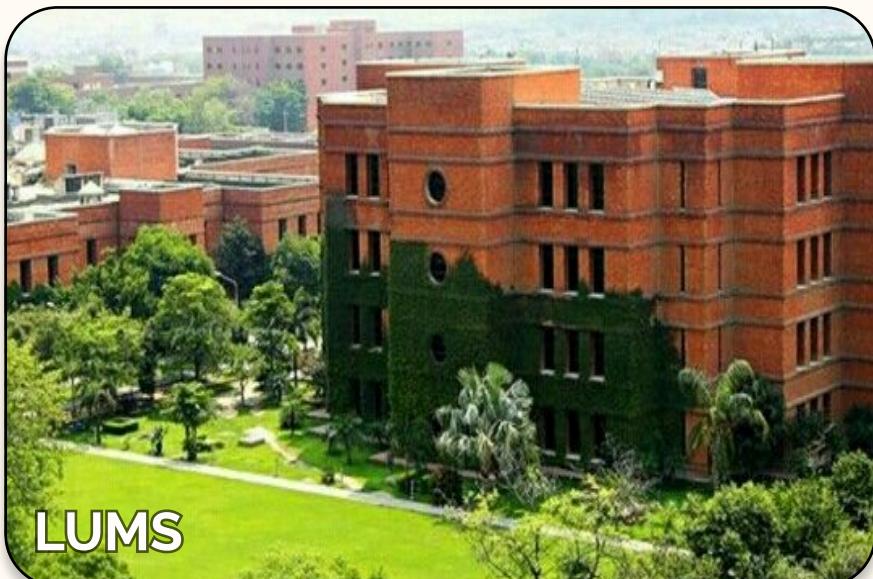
Bookmarks



**Nust
University
Islamabad**



**King
Edward**



LUMS



Find Scholarships

Search for Scholarship

Where will you study? 

Masters 

All Scholarships

Explore scholarships

How to Apply

Popular

Types of Scholarships

Frequently Asked Questions



Forum

Search ...



Bill Rizer

210 replies

12 March 2025

Reply



Genbei Yagy

200 replies

12 March 2025

Reply



Lancy Neo

100 replies

12 March 2025

Reply



Bill Rizer

55 replies

12 March 2025

Reply



Konami

48 replies

12 March 2025

Reply



Discussion Forum

24, March 18



Hi

**Does anyone have any
idea about Comsats?**

Hey Kerry

Yeah it's great for cs!



What about AI?

Type your message





Notifications

Merit list

From LUMS

Open

Admissions Open

From AIR university

Open

Admission deadline

From FAST

Open

Exam Dates

From NUST

Open

Interview Reminder

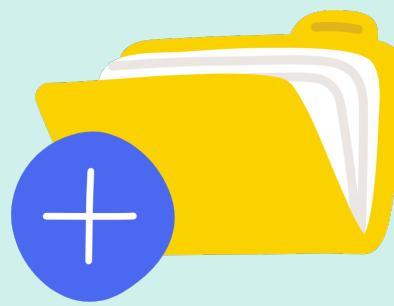
From COMSATS

Open



ADMIN DASHBOARD

UPDATE UNIVERSITY'S PROFILE



UPDATE OFFERED PROGRAMS



POST ADMISSION ANNOUNCEMENTS



RESPOND TO STUDENT'S QUERIES





Profile



Sabiha Usman



Sabiha Usman



princesssabiha@gmail.com



••••••••••••••



Education details



Other settings





Other settings

Activity Status



Private Account

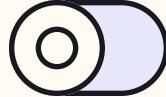
Only people you approve can see your reviews.



Notifications



Dark Mode



Application Status
Tracking



Discussion
Participation





How can we help?

Search any article ...



Frequently asked questions

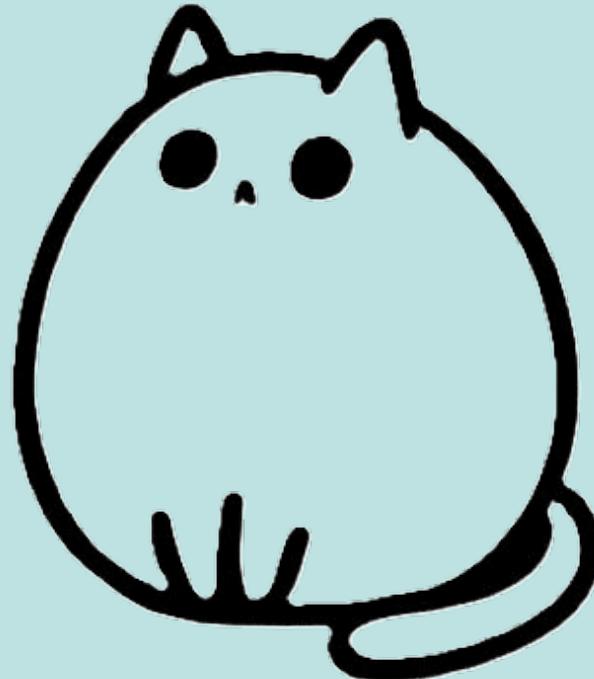
WHAT IS UNICONNECT, AND HOW DOES
IT WORK? >

Is UNICONNECT FREE TO USE? >

WHICH UNIVERSITIES ARE LISTED ON
UNICONNECT? >

HOW DO I SET UP ADMISSION ALERTS
FOR SPECIFIC UNIVERSITIES? >

CAN I COMPARE MULTIPLE
UNIVERSITIES SIDE BY SIDE? >



Are you sure?

Go back

Log out