



**DENNING - SAICS**

SCHOOL FOR ARTIFICIAL INTELLIGENCE &  
COMPUTER SCIENCES



**UNIVERSITY  
OF LONDON**  
RECOGNISED  
TEACHING CENTRE

# BSc CS

DENNING SCHOOL FOR ARTIFICIAL INTELLIGENCE AND COMPUTER SCIENCES

**PROSPECTUS 2024-2025**



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# INTRODUCTION TO DENNING

Established in 2018, Denning is currently the largest and most reputable transnational educational institution in Pakistan which offers undergraduate and college level degrees / qualifications in the fields of law, business, computer science and Accounting. Students at Denning have an opportunity to study locally and procure an internationally recognized foreign qualification which will open endless opportunities for them not just locally but throughout the world.



DENNING  
LAW SCHOOL



DENNING  
BUSINESS SCHOOL



DENNING  
SAICS  
SCHOOL FOR ARTIFICIAL INTELLIGENCE  
& COMPUTER SCIENCES



DENNING  
SAF  
SCHOOL FOR  
ACCOUNTING & FINANCE



DENNING  
DIFC  
INTERNATIONAL  
FOUNDATION COLLEGE

## VISION

Our vision is to be a world-class educational institution that empowers students to lead with innovation, creativity, and social responsibility in the field of technology and artificial intelligence. We aim to create a vibrant community of learners who are equipped with the skills and knowledge to drive positive change and contribute to the advancement of society.

## MISSION

Our mission is to provide a rigorous, comprehensive and hands-on education that prepares our students to become knowledgeable, innovative, and ethical professionals in the field of computer science and artificial intelligence. It would also be to provide a well-rounded education that prepares students for successful careers in the tech industry, fosters a culture of innovation and collaboration and promotes diversity.





# INTRODUCTION TO DENNING SCHOOL FOR ARTIFICIAL INTELLIGENCE & COMPUTER SCIENCES

Denning School for Artificial Intelligence and Computer Sciences is a pioneer educational institute located in Karachi, providing international studies, particularly, BSc in Computer Sciences Program offered by the University of London, UK with receiving their academic direction from the Gold Smith, UK. The Denning School for Artificial Intelligence and Computer Sciences is part of the Denning, an industry leader in transnational education.

Denning believes in unlocking the individual potential of each and every student and equip them well to combat the challenges of an ever-changing world. Artificial Intelligence and Computer Sciences has gained immense traction in today's world in view of the modern technological advancement and the demand for individuals in this field is growing at an exponential rate. The internationally recognized curriculum and degree opens not just local but global opportunities for our students.

At Denning, students are at the heart of all the activities - they are empowered to make their own decisions and encouraged to be innovative and open to change. The seasoned and experienced faculty of Denning School for Artificial Intelligence and Computer Sciences keeps a student-centered approach which allows students to explore knowledge across a wide range of disciplines, use critical problem-solving skills, express themselves confidently, and learn how to work both independently and in collaboration with their peers. Denning School for Artificial Intelligence and Computer Sciences gives ample opportunities to its students by designing its extracurricular activities in such a way that they develop 21st century skills to become confident global citizens of today's world.

## ABOUT UNIVERSITY OF LONDON

The University of London (the “UOL”) is one of the oldest and largest universities in the United Kingdom, with over 170,000 students studying through its constituent colleges and institutes. The UOL is unique in that it is a federal institution made up of 18 self-governing colleges and nine institutes, each with its own distinct character and history. These colleges and institutes offer a wide range of undergraduate and postgraduate programs in a variety of fields, including arts and humanities, social sciences, law, business, and science and technology.

Some of the most well-known colleges and institutes of the UOL include King's College London, University College London (UCL), the London School of Economics and Political Science (LSE), and Imperial College London. The university also has a number of international partnerships and collaborations with other institutions around the world.

In addition to its academic programs, the UOL also has a strong reputation for research, with a focus on interdisciplinary research and collaboration across its constituent colleges and institutes. It has produced numerous Nobel laureates, as well as many leaders in business, government, and the arts.





## ABOUT GOLDSMITHS

The academic direction for the BSc CS Programme is from Goldsmiths, University of London. Founded in 1891, and part of the University of London since 1904, Goldsmiths offers a range of undergraduate and postgraduate study options in the arts, humanities, social sciences, cultural studies, computing, and entrepreneurial business and management.

They've been voted one of the top creative universities in the UK by students and they are also 3rd in the UK for effective teaching (Guardian University League Tables 2017) and in the UK's top 25 for the quality of their research (Research Excellence Framework, THE research intensity ranking). Goldsmiths alumni are shaping the global socio-cultural landscape and include designers, composers, authors, broadcasters, journalists and policy advisers





## ABOUT BSc COMPUTER SCIENCES PROGRAMME

A Bachelor of Science (BSc) in Computer Science is an undergraduate degree Programme awarded by the University of London (with academic direction from Goldsmiths University of London) to be pursued at Denning School for Artificial Intelligence and Computer Sciences that focuses on the theory, design, and practical applications of computers, information technology and computing technology. The Programme typically includes courses in programming, data structures, algorithms, computer architecture, databases, artificial intelligence, and computer networking.

The goal of a BSc in Computer Science is to provide students with a solid foundation in the core concepts and skills needed to design and build software applications, computer systems, and networks. Students will learn programming languages such as Java, Python, C++, and more, and they will be exposed to a range of software development tools and technologies.

The curriculum for a BSc in Computer Science may also include electives in areas such as machine learning, computer graphics, mobile app development, discrete mathematics and web development. Students may have the opportunity to work on group projects and participate in internships or co-op placements to gain practical experience in the field.

Graduates of a BSc in Computer Science are prepared for a variety of careers in the tech industry, including software developer, network engineer, data analyst, cybersecurity specialist, web developer, and more.



## BENEFIT OF STUDYING THE BSc IN COMPUTER SCIENCE PROGRAMME



### IN-DEMAND SKILLS:

BSc in Computer Science prepares you for the digital world: software development, network design, and algorithm creation. In-demand skills for high-growth industry.



### VERSATILITY:

Computer Science degree offers diverse career options in technology, finance, healthcare, and entertainment. It's a versatile choice for students seeking varied opportunities.



### JOB SECURITY:

As mentioned, the demand for computer scientists continues to grow, which means that those with a BSc in Computer Science are likely to have job security and strong earning potential.



### PROBLEM-SOLVING SKILLS:

Computer Science courses often focus on developing analytical and problem-solving skills, which can be applied to a variety of situations both within and outside of the field.



### ENTREPRENEURIAL OPPORTUNITIES:

Computer Science graduates often have the skills needed to start their own tech companies, develop new software applications, and create innovative solutions to business challenges.

# WHY STUDY AT DENNING SCHOOL FOR ARTIFICIAL INTELLIGENCE AND COMPUTER SCIENCES AND PURSUE THE BSc CS PROGRAMME

## Internationally Recognised Qualifications

Denning presents its highly acclaimed BSc Programme in Computer Sciences, meticulously crafted in collaboration with the prestigious University of London. Led by expert faculty, our comprehensive curriculum imparts both theoretical knowledge and practical skills, ensuring students receive a well-rounded education. Our programme readies students for higher education and lucrative careers in today's rapidly evolving technology-driven landscape by equipping them with essential tools.

## Exposure To Diverse Perspectives

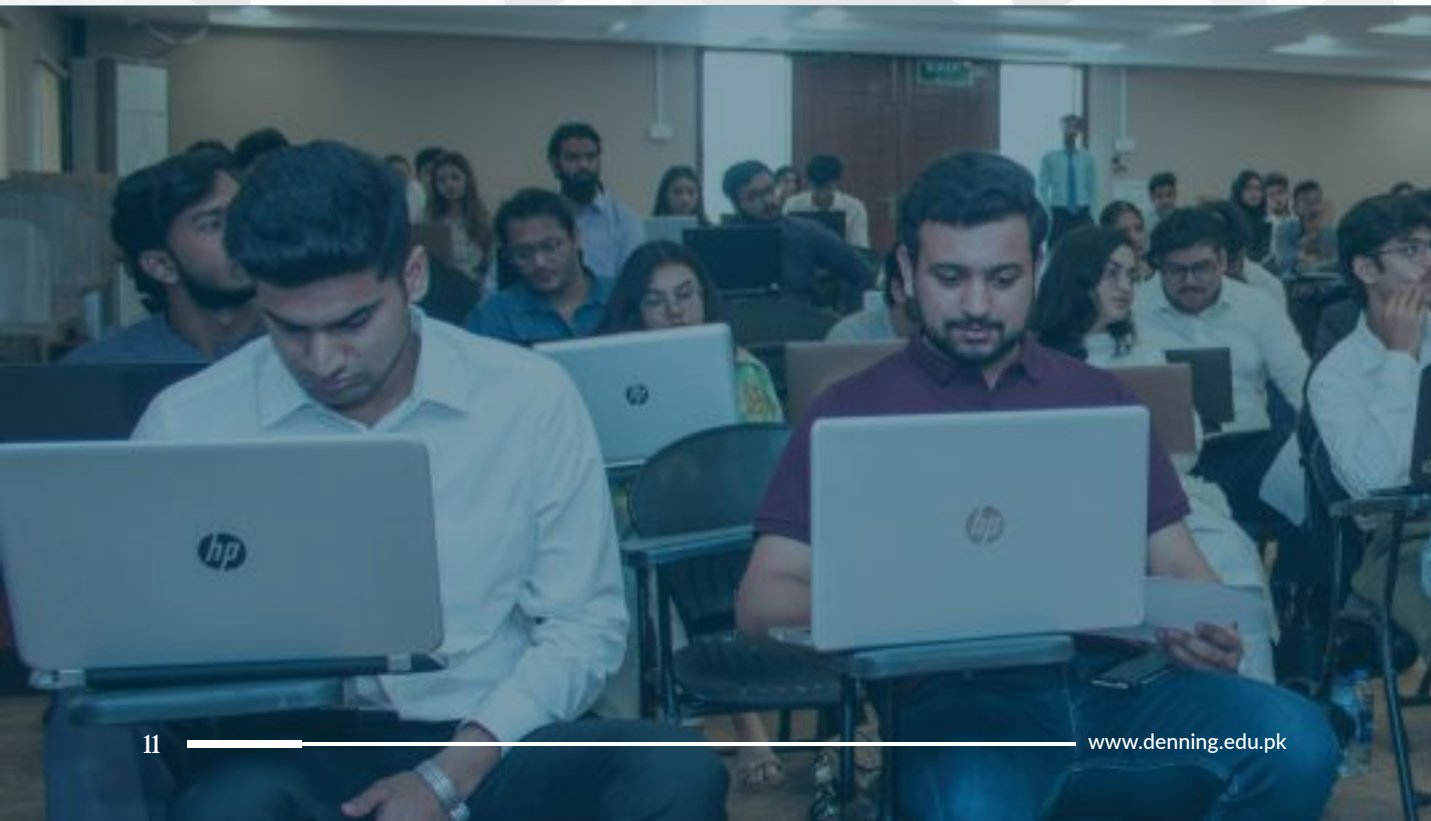
At Denning, students are exposed to a wide range of cultural, social, and political perspectives. This exposure helps students develop a more nuanced and empathetic understanding of the world, and can also provide valuable insights into different approaches to problem-solving and decision-making.

## Caring Environment

Denning has a vision and ethos of building a caring and conducive environment. Such an environment allows Denning students enjoy complete empowerment, opportunities to exhibit their confidence and freedom to make mistakes and learn from them in a conducive environment, under the supervision of the most caring and seasoned faculty members.

## Intellectual Change:

Studying at Denning School for Artificial Intelligence and Computer Sciences can improve your intellectual skills and capacity as Computer science is a rapidly evolving field that constantly presents new challenges and opportunities for problem-solving, making it an intellectually stimulating and rewarding career.





## Innovative Curriculum:

Emphasize the Programme's innovative curriculum and unique teaching methods. Highlight any opportunities for experiential learning, such as hackathons, coding competitions, or group projects.

## Innovative Teaching Methods:

Our faculty incorporates modern pedagogical methods into teaching, using digital tools and resources, collaborative projects, and immersive learning experiences to foster creativity, critical thinking, and problem-solving skills.

## Practical Approach:

Unlike traditional curriculums, Denning School for Artificial Intelligence and Computer Sciences stands out for its emphasis on practical learning. By engaging students in real-world tasks and projects, Denning provides them with essential hands-on experience. This unique approach ensures students are better prepared for future careers or further academic pursuits, setting them up for success in an ever-evolving global landscape.

## State-of-the-art Facilities:

Our campus offers advanced laboratories, a well-stocked library, and spacious classrooms. These facilities enhance learning experiences and contribute to the student's academic success.

## Engaging Campus Life:

Our lively campus is ideal for personal growth. From multiple academic events to sports tournaments and student society activities, our students enjoy a dynamic and engaging campus life.

## A Broader Experience

Beyond the classroom, Denning School for Artificial Intelligence and Computer Sciences offers a range of co-curricular and extra-curricular activities including coding competitions, hackathons, and professional development events, which provide students with opportunities to network with industry leaders and gain real-world experience. Our different societies give students the opportunity to extend their abilities and they offer opportunities for students to experience new activities and challenges within a safe environment.







# BSc CS PROGRAMME OFFERED AT DENNING SCHOOL FOR ARTIFICIAL INTELLIGENCE AND COMPUTER SCIENCES





1<sup>st</sup>

YEAR

## SEMESTER ONE

-  Introduction to Programming I
-  Computational Mathematics
-  How Computers Work
-  Web Development





## SEMESTER TWO

-  Introduction to Programming II
-  Discrete Mathematics
-  Fundamentals of Computer Science
-  Algorithms and Data Structure

## SEMESTER THREE

-  Object Oriented Programming
-  Software Design and Development
-  Databases, Network and the Web
-  Agile Software Projects

## SEMESTER FOUR

-  Computer Security
-  Graphics Programming
-  Algorithms and Data Structure II
-  Programming with Data

2<sup>nd</sup>

YEAR

## SEMESTER FIVE

-  Artificial Intelligence
-  3D Graphics and Animation
-  Data Science
-  Mobile Development
-  Machine Learning and Neural Networks

## SEMESTER SIX

-  Physical Computing and the Internet of Things
-  Advanced Web Development
-  Virtual Reality
-  Games Development
-  Databases and Advanced Data Techniques

3<sup>rd</sup>

YEAR



## ASSESSMENT STRUCTURE

BSc CS Programme offered by the University of London typically consists of internal assessment and external assessment.

1. **Internal Assessment:** This includes assignments, practical work, examinations, presentation and projects. The internal assessment is designed to allow students to demonstrate their understanding and application of the knowledge and skills they have acquired through the course.
2. **External Assessment:** This includes exams and/or tasks that are set and marked by UoL, the awarding body. The external assessment is designed to provide an independent and objective measure of the student's knowledge and skills and is typically taken at the end of the course.

The BSc CS Programme offers a flexible and practical assessment structure. It enables students to showcase their knowledge and skills through various methods. 3rd Year culminates in a significant independent project, allowing students to demonstrate skills in project planning, management, research, software implementation, and written presentation.

## PROGRESSION OPTIONS

The 3 year BSc CS Programme pursued from Denning School for Artificial Intelligence and Computer Sciences is equivalent to an undergraduate degree and can lead to students enrolling in postgraduate programs locally and internationally across multiple universities and also practice in the particular field.

This Programme also allows the students to get a degree directly from the University of London whilst sitting in their home country studying at Denning School for Artificial Intelligence and Computer Sciences and also allows them to take a transfer into their 2nd or 3rd year to a local university in the UK.



# ELIGIBILITY CRITERIA

Qualification	Grade Requirement	English Language Requirement	Mathematics Requirement
A Levels or 2 Year Bachelors' Degree (Standard Entry Route - 3 years)	Minimum 3 A Level passes with C grade or above; or Minimum 2 A Level passes with C grade or above and at least 5 O Level passes with a minimum of C grade or above.	IGCSE or GCE O-Level: English as a Second Language (grade C); or	Pass either GCSE Mathematics (Grade A*-B / 9-5) or AS Level Mathematics (A-E), or equivalent)  Or Complete the "Mathematics for Computer Science" course on the Coursera platform.

Qualification	Grade Requirement
Intermediate (4 years)	Minimum 60% overall percentage Intermediate students who want to opt for the computer science program will have to undergo a one year foundation program - math is a compulsory module which will need to be passed.

# APPLICATION PROCESS

## APPLICATION

1

The admissions process at Denning SAICS begins with the submission of an admission form on the institution's website

## ENTRY TEST

2

Candidates might be required to take an admission test based on their qualification

## INTERVIEW

3

Eligible Candidates must attend an on-campus interview as part of the admissions process

## OFFER ACCEPTANCE/ ENROLLMENT

4

Offer acceptance and enrollment involve the formal process of accepting admission and completing the necessary steps

## ORIENTATION DAY

5

The event provides new students with key information about the institution, campus, programmes and services

\*To learn more, please schedule a meeting with our senior counsellor by emailing: [admissions@denning.edu.pk](mailto:admissions@denning.edu.pk)

# FEE STRUCTURE

## First Year

Tuition Fee	Library Fee	Student Activity Fee	Admission Fee	Total Fees
Rs335,000/-	Rs10,000/-	Rs10,000/-	Rs45,000/- <small>(only at the time of admission)</small>	Rs400,000/-

## Second Year

Tuition Fee	Library Fee	Student Activity Fee	Continuing Fee	Total Fees
Rs350,000/-	Rs10,000/-	Rs10,000/-	Rs15,000/-	Rs385,000/-

## Third Year

Tuition Fee	Library Fee	Student Activity Fee	Continuing Fee	Total Fees
Rs350,000/-	Rs10,000/-	Rs10,000/-	Rs15,000/-	Rs385,000/-



# TESTIMONIALS



## FARHAN MUSHTAQ

Studying Computer Science at Denning School of Artificial Intelligence And Computer Sciences, I admired a unique learning atmosphere. At Denning, learning is so much fun! You feel like a part of the close-knit team, where each professor, each staff member, and each of your peers are always ready to support and guide you. Professional teaching, creative classes, effective explanations, and entertaining material that you get here – all contribute to your success in industry, or like in my case, in pursuing a bachelor's degree! For sure, it is one of the best universities, and what is more important, it is a community that gets interesting and smart people together!



## Ashna Faisal

The Denning School of Artificial Intelligence And Computer Sciences offers exceptional support and expertise from professors, making complex concepts easy to grasp. Courses range from fundamentals to cutting-edge technologies, ensuring students are well-prepared for the industry. The department fosters a vibrant community through various activities and clubs. Overall, students gain extensive knowledge and feel prepared for their careers, making it a highly recommended choice for anyone interested in computer science.

# EXPERIENCE

# ENRICHING DEVELOPING



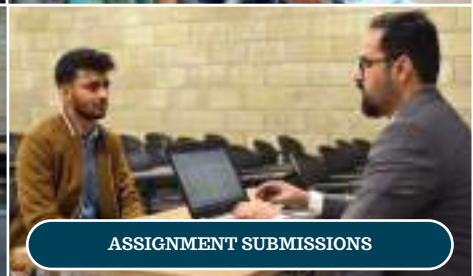
SKILL DEVELOPMENT WORKSHOPS



CODE CLASH



GUEST SPEAKER SESSION



ASSIGNMENT SUBMISSIONS

## ACADEMIC EVENTS

## ENRICHMENT EVENTS



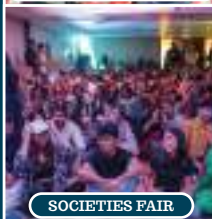
DENNING SPORTS CEREMONY



ANNUAL BEACH CONCERT



ANNUAL NATIONAL TRIP



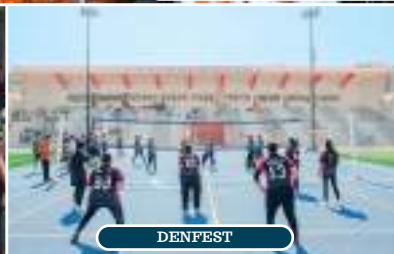
SOCIETIES FAIR



GLOBAL VILLAGE



SPRING GALA



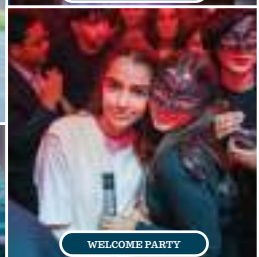
DENFEST



ANNUAL QAWWALI



ANNUAL THEATRE



WELCOME PARTY



# SOCIETIES AT DENNING



DENNING DEBATES UNION



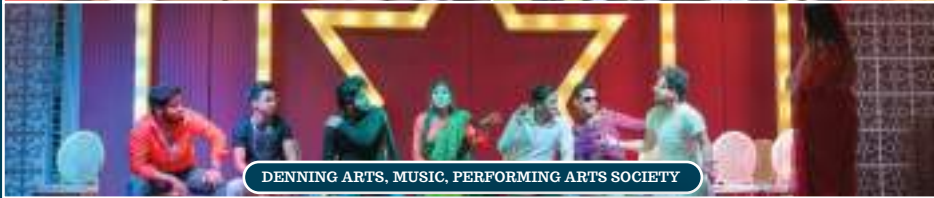
DENNING EXECUTIVE COUNCIL



DENNING ENTREPRENEURSHIP SOCIETY



DENNING SPORTS SOCIETY



DENNING ARTS, MUSIC, PERFORMING ARTS SOCIETY



DIALOGUES AT DENNING



DENNING PUBLIC SERVICE SOCIETY



DENNING CIRCLE FOR THE ADVANCEMENT OF WOMEN



DENNING E-SPORTS SOCIETY



WINTER CLOTHING DRIVE



BLOOD DONATION DRIVE



CYCLE FOR A CAUSE



VISIT TO SIRAT-UL-JANNAH



FOOD DONATION DRIVE

# COMMUNITY EVENTS

# BEYOND THE CURRICULUM



VISIT TO MOHATTA PALACE



VISIT TO ISMAIL INDUSTRIES



VISIT TO PAKISTAN STOCK EXCHANGE



# CAREER DEVELOPMENT UNIT

DSAICS houses a specialised wing called Career Development Unit (CDU). The core objective is to provide support and help new graduates as they step into the professional world.



# DENNING CONSULTANTS

Denning has an in-house consultancy wing under the banner of Denning Consultants (DenCo) that offers personalised solutions to students seeking higher education in top universities worldwide.



# DENNING APP AT A GLANCE

Separate email account for every student

This email account serves as login account to denning student portal

Daily updated class timetable

Weekly timetable of classes

Face ID registration for login



Profile overview and student e-Card

Notification of latest events

Graphical stats of students attendance data and option to mark attendance digitally

List of all courses in which a student has been enrolled

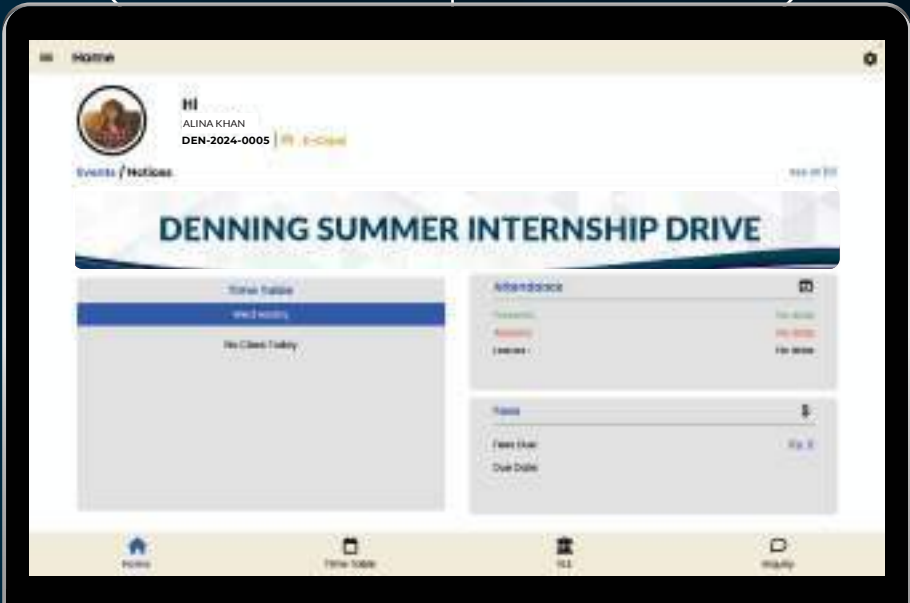


# VIRTUAL LEARNING ENVIRONMENT

Provides a variety of features to enhance the learning experience

A purpose-built application available on Android, iOS, Windows and Mac

VLE portal provides all the resources that a student will need to complete the relevant degree



Submitting assignments

Accessing module material

Participation in online classes and exams

Inquiries regarding financial matters

Recorded lectures and notes

## DENNING BYTECH RESEARCH CENTRE

Denning ByTech Research Center (DBTRC) has been initiated with the primary objective of fostering a robust research culture among students. The research center aims to bridge the gap between academia and industry by facilitating hands-on experiences, pursuing funded projects and research grants, providing industrial exposure, and addressing real-world scenarios through troubleshooting. The key focus is on practical applications, culminating in the launch of innovative products. The expected outcomes include the cultivation of a dynamic learning environment, the development of technical skills essential for AI research, and the creation of impactful solutions that meet every day needs.

### MISSION & VISION

Denning ByTech Research Center (DBTRC) aims to foster a dynamic research culture among students, bridging academia and industry through hands-on experiences and funded projects. Committed to real-world problem-solving, DBTRC cultivates innovative thinkers equipped with essential AI skills. Our mission focuses on practical applications, addressing societal needs with impactful solutions. Visionary goals envision DBTRC as a premier hub for AI research, empowering students to drive positive change through collaboration and practical innovation. Globally recognized for excellence and dedication, DBTRC strives to make a meaningful impact by translating research into tangible solutions, advancing knowledge, and benefiting society.

# UoL FEE STRUCTURE

## First Year

Application Fee <small>(non-refundable &amp; one time fee)</small>	September Semester	April Semester	Total Fees
£60/- <small>(Deadline) 16<sup>th</sup> Sep, 2024</small>	£1394/- <small>(Deadline) 23<sup>rd</sup> Sep, 2024</small>	£1394/- <small>(Deadline) 18<sup>th</sup> Mar, 2025</small>	£2,848/-

## Second Year

September Semester	April Semester	Total Fees
£1394/- <small>(Deadline) 23<sup>rd</sup> Sep, 2025</small>	£1394/- <small>(Deadline) 18<sup>th</sup> Mar, 2026</small>	£2,788/-

## Third Year

September Semester	April Semester	Total Fees
£1394/- <small>(Deadline) 23<sup>rd</sup> Sep, 2026</small>	£1394/- <small>(Deadline) 18<sup>th</sup> Mar, 2027</small>	£2,788/-

\*The fees charged by UoL shall be charged annually by the UoL. The fees may be subject to change by the UoL.



## EMAIL

Information: [info@denning.edu.pk](mailto:info@denning.edu.pk)  
Admissions: [admissions@denning.edu.pk](mailto:admissions@denning.edu.pk)

## WEBSITE

[www.denning.edu.pk](http://www.denning.edu.pk)

## PECHS CAMPUS

Address: 33-F & 33-E, Jaffer Street, Shahrah-e-Faisal, Block 06,  
PECHS, Karachi, Pakistan.  
Phone: +92-21-34301225, +92-21-34301226  
Mobile: 0300-3376464

## SEAVIEW CAMPUS

Address: D-120, Block 04, Clifton, Karachi, Pakistan.  
Phone: +92-21-35140462, +92-21-35140461  
Mobile: 0300-3376464

## CLIFTON CAMPUS

Address: D-8, Block 02, Clifton, Karachi, Pakistan.  
Phone: +92-21-35173003, +92-21-35173004  
Mobile: 0300-3376464

## CREEK CAMPUS

Address: Plot 3 & 3A, Sector 47, Creek Rd, Korangi Creek, Karachi, Pakistan  
Phone: +92-21-35173003, +92-21-35173004  
Mobile: 0300-3376464

## HYDERABAD CAMPUS

Address: Latifabad No.2, Hyderabad, Pakistan  
Phone: +92-21-35173003, +92-21-35173004  
Mobile: 0300-3376464

