

ZIAUDDIN UNIVERSITY PROSPECTUS

2023



*For further updates regarding entry
test interviews kindly logon to
www.zu.edu.pk



OUR VISION

We are a prestigious institution of higher education recognised for academic excellence and research. Ziauddin University aims to nurture ethical and intellectual curiosity in the students by motivating them to positively contribute towards the development of a knowledge-based society in Pakistan. A society that can understand global challenges, and effectively mold itself in accordance to the changing political, economic and social paradigm.

OUR MISSION

Ziauddin University seeks a futuristic approach in imparting knowledge, skills and confidence in students. The curriculum inculcates in them critical abilities, wisdom and values which are necessary to form a forward looking coherent civil society where knowledge is disseminated and services are rendered with the highest sense of moral uprightness and social responsibility to the nation, region and the world at large.

TABLE OF CONTENTS

SIR. DR. ZIAUDDIN AHMAD	06
MESSAGE FROM THE CHANCELLOR	07
MESSAGE FROM THE VICE CHANCELLOR	09
MEMBERS OF GOVERNING BODY	11
MEMBERS OF ACADEMIC COUNCIL	12
ZIAUDDIN UNIVERSITY	13
FACULTY OF HEALTH SCIENCES	17
• ZIAUDDIN MEDICAL COLLEGE	19
• COLLEGE OF DENTISTRY	43
• COLLEGE OF SPEECH, LANGUAGE & HEARING SCIENCES	55
• COLLEGE OF MEDICAL TECHNOLOGY	69
• COLLEGE OF REHABILITATION SCIENCES	89
• COLLEGE OF PODIATRIC MEDICINE	109
• COLLEGE OF PUBLIC HEALTH	113
FACULTY OF PHARMACY	119
FACULTY OF NURSING & MIDWIFERY	141
FACULTY OF EASTERN MEDICINE & NATURAL SCIENCES	153
• COLLEGE OF EASTERN MEDICINE	159
• COLLEGE OF NATURAL SCIENCES	165
FACULTY OF LAW, POLITICS & GOVERNANCE	171
FACULTY OF ENGINEERING, SCIENCE, TECHNOLOGY & MANAGEMENT	185
• DEPARTMENT OF BIOMEDICAL ENGINEERING	197
• DEPARTMENT OF CIVIL ENGINEERING	207
• DEPARTMENT OF ELECTRICAL ENGINEERING	213
• DEPARTMENT OF COMPUTER SCIENCE & SOFTWARE ENGINEERING	219
• DEPARTMENT OF MANAGEMENT, TECHNOLOGY & INFORMATION SCIENCES	229
• DEPARTMENT OF ARCHITECTURE AND ENVIRONMENTAL DESIGN	249
FACULTY OF LIBERAL ARTS & HUMAN SCIENCES	255
• COLLEGE OF MEDIA SCIENCES	261
• COLLEGE OF LANGUAGES, LITERATURE & CULTURE	275
• COLLEGE OF EDUCATION	285
• COLLEGE OF CLINICAL PSYCHOLOGY	307
FACULTY OF VETERINARY & ANIMAL SCIENCES	317

TABLE OF CONTENTS

DEPARTMENT OF CONTINUING PROFESSIONAL EDUCATION	331
DEPARTMENT OF EDUCATION DEVELOPMENT	333
DEPARTMENT OF RESEARCH	335
QUALITY ENHANCEMENT CELL	339
OFFICE OF RESEARCH, INNOVATION & COMMERCIALIZATION (ORIC)	341
NATIONAL AND INTERNATIONAL LINKAGES	347
CLINICAL TRIAL UNIT	349
UNIVERSITY POLICIES	352
EXTRA CURRICULAR ACTIVITIES	353
DEPARTMENT OF STUDENT AFFAIRS	355
STUDENT LIFE	357
DEPARTMENT OF SPORTS	367



SIR.DR. ZIAUDDIN AHMAD

M.A. (Cantab.) Ph.D. (Göttingen)
D.Sc. C.I.E, M.L.A (Central)

Ex-Vice Chancellor and Rector of Aligarh Muslim University

Sir. Dr. Ziauddin Ahmad is an individual who left a lasting impact on the subcontinent. He was an eminent educationist, scholar, visionary, and an exemplary individual who serves as an inspiration to those willing to make a difference in the world.

Born in 1873 in Meerut, India, his journey of success started at the age of 12 when he attained the first division in high school. Dr. Ziauddin also received a Lang medal along with a government scholarship at Aligarh M.A.O College. In 1895 he secured the first position in Bachelor of Arts (B.A), and received the coveted Shachey Gold Medal at Aligarh M.A.O College.

However, this was just a glimpse of his intellectual prowess. After completing B.A in Mathematics, Dr. Ziauddin Ahmad was appointed as the assistant lecturer in Aligarh M.A.O College – the same educational institute that aided him in expressing his brilliance. He then attained a Master of Arts (M.A) degree from the University of Calcutta.

In 1901, he achieved a Doctor of Science (D.Sc. degree in mathematics from the University of Allahabad. He then enrolled himself in the Trinity College at Cambridge University and achieved the prestigious Sir Isaac Newton scholarship - an honour no other Indian had attained. The final jewel in his list of educational triumphs was the PhD in Mathematics that Dr. Ziauddin Ahmad earned from the internationally renowned, Göttingen University, Germany.

After his own journey of attaining the highest level of education was completed, Dr. Ziauddin Ahmad aspired to raise the standard of education within the subcontinent. He also worked as an Assistant Secretary for the Sir Syed Memorial Fund, established for the purpose of founding a Muslim University.

Since the educationalist was inspired by Sir Syed Ahmed Khan's approach towards modern tutelage, he dedicated himself to creating a liberal teaching system for the Muslims of India. Dr Ziauddin was appointed as the very first Pro-vice chancellor of Aligarh Muslim University. He took over as Vice Chancellor, in 1935.

His journey of spreading literacy, higher education, and the ability to critically analyse information ended in December 23, 1947, when Sir. Dr. Ziauddin Ahmad died in London. He was buried beside Sir Syed Ahmed Khan in the Aligarh Muslim University Mosque premise, thus fulfilling his pledge of serving Aligarh for life.

MESSAGE FROM THE CHANCELLOR

Ziauddin University was formed with the aim of spreading knowledge across the world, and most importantly, empowering the youth of Pakistan with education equivalent with international standards. The university's primary emphasis is on providing a positive learning environment that drives students to achieve heights of success.

Apart from motivating our apprentices, Ziauddin University offers an array of programmes and state of the art facilities that warranty academic excellence. Thus, we often see our students conducting researches that can change history as we know it. From practical experiments to journal studies – the students at the university are involved in all aspects of the advancement of the nation.

Our aim now is to uphold a standard of excellence and to keep creating opportunities that break barriers in terms of knowledge, research, and development.

DR. ASIM HUSSAIN
SITARA.E. IMTIAZ, NISHAN.E.IMTIAZ
CHANCELLOR, ZIAUDDIN UNIVERSITY



MESSAGE FROM THE VICE CHANCELLOR

I am pleased to present the Prospectus of Ziauddin University for 2021. I feel proud of the fact that this is the 25th year of existence of Ziauddin University; a very prominent seat of learning in the Private Sector of Pakistan. In the last few years, we have entered and diversified into various areas of higher learning by establishing a full-fledged Faculty of Engineering, Science and Technology, Faculty of Law, Faculty of Liberal Arts and Human Sciences and the Faculty of Eastern Medicine and Natural Sciences. This has opened vast opportunities for students to gain training in important areas.

I am extremely pleased to mention that we have maintained excellent academic discipline in Ziauddin University. The focus on teaching methodologies to provide the best possible environment of teaching and learning.

I am sure that the training and education of Ziauddin University is making an impact at a national and international level. I hope that our Alumni will endorse these facts about the very special environment which exists at this University.

PROF. DR.
SYED IRFAN HYDER
VICE CHANCELLOR, ZIAUDDIN UNIVERSITY



GOVERNING BODY

CHAIRMAN

Dr. Asim Hussain S.I, N.I.
Chancellor, Ziauddin University

MEMBERS

Prof. Dr. Syed Irfan Hyder (Ph.D)

Vice-Chancellor, Ziauddin University

Mr. Saleem Mandviwalla

Senator, Senate of Pakistan

Justice Adnan Iqbal Chaudhry

Honorable Judge, High Court of Sindh

Prof. Dr. Sarosh Hashmat Lodi (Ph.D)

VC NED University Nominee of Chairman,
Sindh HEC

Chairman HEC or his nominee

Sardar Yaseen Malik HI, SI

Chairman, Hilton Pharma

Mr. M. Saleem Khan Master

(Harvard Univ) Master (Economics)

Former Federal Secretary to the Govt of Pakistan

Mr. Anwar Mansoor Khan

Former Judge High Court, Sindh & Attorney General
of Pakistan

Prof. Dr. Pirzada Qasim Raza Siddiqui (Ph.D)

Former Vice Chancellor, Ziauddin Univ and University
of Karachi/Professor Emeritus

Prof. Dr. Khalid M. Iraqi (Ph.D)

Vice-Chancellor, University of Karachi or nominee

Mr. M. Tariq Yousuf

President Karachi Chamber of Commerce &
Industries

Prof. Dr. Abbas Zafar (MBBS, FRCS)

Dean, Faculty of Health Sciences

Prof. Dr. Fahad Azim (BE Electrical) Ph.D

Dean, Faculty of Engineering, Science, Technology
& Management

Dr. Zulfiqar Ali Umrani

Director QEC

Engr. Capt. (Retd) Syed Waqar Hussain (B.Sc (Engg)

Master in Economics & International Relations)

Registrar, Ziauddin University

Prof. Dr. Nida Hussain (MBBS, DAB)

Pro-Chancellor

Mr. Faizan S. Syed

Advisor to the Chancellor on Financial/Media
Sciences

Dr. Ammad Hussain

Chief Executive, Ziauddin Hospital

Mr. Shahzad Iqbal

Director Finance

ACADEMIC COUNCIL

CHAIRMAN

Prof. Dr. Syed Irfan Hyder
Vice-Chancellor, Ziauddin University

MEMBERS

Prof. Dr. Nida Hussain

Pro-Chancellor

Prof. Dr. Anwar Ejaz Beg

Advisor to Chancellor/Prof. Pharmacy

Prof. Dr. Pirzada Qasim Raza Siddiqui

Professor Emeritus ZU

Prof. Dr. Abbas Zafar

Dean, Faculty of Health Sciences

Dr. Masood Hameed Khan

Advisor to Chancellor

Prof. Dr. Nudrat Fatima

Acting Dean, Faculty of Pharmacy

Prof. Dr. Talat Mirza

Executive Director, Research

Ms. Shaaista Sarki

Dean, Faculty of Law, Politics & Governance

Dr. Shehla Najib Sidiki

Dean, Faculty of Liberal Arts & Human Sciences

Dr. Tabiba Tasneem Qureshi

Dean, Faculty of Eastern Medicine & Natural
Sciences

Engr. Dr. Fahad Azim

Dean, Faculty of Engineering, Science, Technology
& Management

Dr. Pamela Marshall

Dean, Faculty of Nursing & Midwifery

Prof. Dr. Zafar Iqbal Qureshi

Dean, Faculty of Veterinary and Animal Sciences

Dr. Ashar Ekhlaq Ahmed

Director, Post Graduate Studies (Clinical)

Dr. Wahab Qadri

Principal, Ziauddin College of Dentistry

Ms. Amina A. Siddiqui

Principal, Ziauddin College of Speech Language &
Hearing Sciences

Dr. Sumaira Imran

Principal, Ziauddin College of Rehabilitation
Sciences

Ms. Humaira Rashid

Acting Principal, Ziauddin College of Medical
Technology

Ms. Rana Hussain

Principal, Ziauddin College of Education

Dr. Faisal Khan

Principal Podiatric Medicine

Dr. Fasiha Sohail Khan

Associate Director Academics (Clinical), Kaemari
Campus

Prof. Dr. Ahmed Fawad

Associate Director Academics (Clinical) North
Nazimabad

Dr. Uzma Ghouri

Associate Director Academics, (Clinical) Clifton
Campus

Engr. Capt. (Retd) Syed Waqar Hussain

Registrar

Prof. Dr. Nuzhat Hassan

Acting Principal, Ziauddin Medical College

Dr. Arif Hussain

Assistant Dean, Allied Health Sciences

Prof. Dr. Zil-a-Rubab

Head of Department, Biochemistry

Dr. Noor Muhammad Soomro

Prof. Faculty of Veterinary and Animal Sciences

Mr. Moiz Ahmed

Controller of Examinations

Dr. Iram Khursheed

Director, Directorate of Educational Development

Mr. Faizan S. Syed

Advisor to Chancellor on Financial/Media Sciences

Dr. Yasmin Amarsi

Advisor to Chancellor on Nursing

Mr. Syed Atta Ullah Shah

Chief Librarian

Dr. Saad Jawaid Khan

Chairperson, BioMedical Engineering

Prof. Dr. Munaf Rashid

Chairperson, Software Engineering

Dr. Saamia Tariq

Acting Chairperson, Civil Engineering

Dr. Zulfiqar Umrani

Director ORIC & Additional Registrar Academics

Prof. Dr. Khursheed Hashmi

Member

Prof. Dr. Ejaz Mohiuddin

Principal, College of Eastern Medicine

Prof. Dr. Rubina Hakeem

HOD Human Nutrition and Dietetic

Dr. Saifullah

Chairperson, Department of Management
Technology & Information Sciences

Dr. Nasir Qureshi

Chairperson, Department of Architecture &
Environment Design

Dr. Shahkamal Hashmi

Principal, College of Public Health

Dr. Yousuf Irfan Zia

Chairperson, Department of Electrical Engineering

Dr. Zulfiqar Ali Umrani

Director QEC (Additional Charge)

ZIAUDDIN UNIVERSITY

Sir Dr. Ziauddin Ahmad's vision was transformed into reality in the late 1950's when his daughter Dr. Ejaz Fatima and his son-in-law Dr Tajammul Hussain started a small maternity home in Nazimabad. Over the years, this small maternity home took shape of a busy 80-bed hospital that serves the densely populated area of Nazimabad.

In 1968, the family of Dr Ziauddin Ahmad established Dr Ziauddin Hospital Trust, where in the same year this trust established a second hospital in North Nazimabad as Dr Ziauddin Hospital, which is now a 300-bed tertiary care hospital, catering to a large population. This hospital provides an opportunity for students to gain knowledge and skills in assessing and evaluating a wide range of problems in a tertiary care setting. The hospital is equipped with state of the art equipment necessary to diagnose and manage problems effectively and efficiently.

In August 1994, through an Ordinance (XVII of 1994), the Government of Sindh granted the permission to establish Dr. Ziauddin Postgraduate Institute of Medical Sciences. By virtue of this Ordinance, the Institute could grant its own postgraduate degrees and diplomas.

In October 1995, the Sindh Assembly passed an Act (VI of 1995) for the establishment of Ziauddin Medical University. At this time the university also established an association with the neighbouring community to set up a health centre, and entered into mutual partnership with the Karachi Municipal catchments population by providing healthcare services & educational support.

In December 2005, Ziauddin Medical University was given the Charter as Ziauddin University vide "The Ziauddin University" (Amendment) ACT 2003 dated December 13, 2005.

Presently, following faculties/colleges are successfully running under the umbrella of Ziauddin University:

Faculty of Health Sciences

- Ziauddin Medical College
- College of Dentistry
- College of Rehabilitation Sciences
- College of Medical Technology
- College of Speech, Language & Hearing Sciences
- College of Podiatric Medicine
- College of Public Health

Faculty of Pharmacy

Faculty of Law, Politics & Governance

Faculty of Liberal Arts & Human Sciences

- College of Media Sciences
- College of Languages, Literature & Culture
- College of Education
- College of Clinical Psychology

Faculty of Engineering, Science, Technology & Management

- Department of Biomedical Engineering
- Department of Electrical Engineering
- Department of Civil Engineering
- Department of Computer Science & Software Engineering
- Department of Management, Technology & Information Sciences
- Department of Architecture and Environmental Design

Faculty of Nursing & Midwifery

Faculty of Eastern Medicine & Natural Sciences

- College of Eastern Medicine
- College of Natural Sciences

Faculty of Veterinary & Animal Sciences

PROFESSIONAL ACCREDITATIONS

Ziauddin University is accredited by the following bodies:

- Pakistan Medical and Dental Council (PMDC)
- Pakistan Council of Pharmacy (PCP)
- Pakistan Nursing Council (PNC)
- Pakistan Engineering Council (PEC)
- Pakistan Bar Council (PBC)
- Pakistan Council of Architects and Town Planners (PCATP)
- National Technology Council (NTC)

- National Business Education Accreditation Council (NBEAC)
- National Computing Education Accreditation Council (NCEAC)
- National Council of Tibb
- National Accreditation Council for Teacher Education
- Higher Education Commission of Pakistan (HEC)
- National Agriculture Education Accreditation (NAEAC)
- Veterinary Medical Council (VMC)

UNIVERSITY LIBRARIES

A network of 15 libraries of Ziauddin University is actively working at different faculties and colleges at all campuses. The primary goal of these libraries is to provide quality and relevant

information and literature to support and strengthen the university and hospitals' academic, research, and patient care programmes.

eBooks

1	Ebscohost databases	236,000
2	Calibri databases	4500

eJournals

1	HEC Digital Library	3553
2	Research4Life	34141
3	Ebscohost:	5820

ZU DIGITAL LIBRARY AVAILABLE AT ZU WEBSITE

EBSCOhost Databases	HEC Digital Library	Research4Life (WHO Databases)	Other Databases
eBook Academic Collections (EBSCO) – There are nearly 236,000 eBooks in this package, including more than 16,000/- Medical Books.	Springer Link 503+ Journals	HINARI 10645 Journals	Pakistanlawsite (Law Database)
eJournals: Engineering Source – 3000 full-text titles in engineering, computer science and related areas	Wiley-Blackwell 1,600+ Journals	AGORA 10074 Journals	E-Books (Calibre) 4464
eJournals MEDLINE - providing full text for over 1,800 journals	Taylor & Francis Journals 1000 + Journals	OARE 7686 Journals	E-Journals (Open Access)
eJournals Dentistry & Oral Sciences Source: 293 Journals	Ovid 438 Journals	ARDI 4863 Journals	ZU Archives
eJournals EBSCO Pharmacy Collection 357 Journals	INFORMS 12 Scholarly Journals	GOALI 873 Journals	ZU Thesis 361 (DSpace)
eJournals Alt Health Watch 180 Journals	E-library 142,000 Books	Total Books 55,833	
eJournals Rehabilitation & Sports Medicine Source - full-text for over 190 sports and rehabilitation journals	ProQuest Dissertations (Currently suspended)		

More than 24000 Books and 124 Computers are provided in the ZU libraries network to facilitate the library users.

Training Sessions: The Librarians Provide training of Literature search, literature management, and Turnitin.

Library Services: Scanning, Printing, Literature Search, Article Supply, Circulation, Reference Services, and e-Alert.

Anti-plagiarism Software (Turnitin): Check the documents' originality and issue the certificate

for the ZU Research work of the students of Ph. D., M. Phil., M.D., M.S., M.Sc. N., BSc. N. and other papers & publications

Operations: NLM & LC Schemes for literature Classification and MARC21 for Catalog are being used.

The KOHA library software is used to automate the library services, information about the available literature (library catalog) and its status, and develop a virtual network among the ZU.

ZU LIBRARIES, TIMINGS, AND STAFF

Clifton		North Nazimabad		Link Road	
1	Dr. Naeem A. Jafery Library 8:00 am to 10:00 pm (Mon. to Fri.) 8:00 am to 4:00 pm (Saturday) <i>Syed Attaullah Shah - Chief Librarian</i> <i>Sheraz Khurshid - Deputy Chief Librarian</i> <i>Kishwer Zaheer - Librarian</i> <i>Aisha Fareed - Deputy Librarian</i> <i>Touqeer Shah - LIS Analyst</i> <i>Fayyaz Khan - Assistant Librarian</i> <i>Madiha Shahid - Assistant Librarian</i>	5	Hospital Library 8:30 am to 10:00 pm (Mon. to Sat.) <i>Nazish Nawab - Deputy Librarian</i> <i>Faizan Sohail - Assistant Librarian</i> <i>Muhammad Iqbal - Senior Library Assistant</i>	11	Dr. Aijaz Fatima Library 9:00 am to 3:30 pm (Mon. to Fri.) <i>Syeda Sobia Ayaz - Deputy Librarian</i> <i>Rahmatullah Khan - Assistant Librarian</i>
2	College of Speech Language & Hearing Sciences 8:30 am to 4:30 pm (Mon. to Fri.) <i>Umme Ruma Rehan - Assistant Librarian</i>	6	Faculty of Eng. Sci., Tech. & Mgt. 8:30 am to 9:00 pm (Mon. to Fri.) <i>Sahar Afshan - Assistant Librarian</i> <i>Siddiqa Khan - Assistant Librarian</i>	12	Faculty of Pharmacy 9:00 am to 3:30 pm (Mon. to Fri.) <i>Umama Syed - Assistant Librarian</i> <i>Erum Khan - Assistant Librarian</i>
3	College of Rehabilitation Sciences BB 8:30 am to 4:30 pm (Mon. to Fri.) <i>Jannat Shaheen - Assistant Librarian</i>	7	Faculty of Nursing and Midwifery 8:30 am to 4:30 pm (Mon. to Fri.) <i>Sadia Shamim - Assistant Librarian</i> <i>Noureen Kamal - Library Assistant</i>	13	Faculty of Veterinary and Animal Sciences 9:00 am to 3:30 pm (Mon. to Fri.) <i>Faiza Inam - Assistant Librarian</i>
4	Faculty of Law, Politics and Governance 9:00 am to 5:00 pm (Mon. - Fri.) <i>Nafees Ahmed - Assistant Librarian</i> Website: library.zu.edu.pk Email: library@zu.edu.pk Ext: 2563-2567	8	College of Rehabilitation Sciences NN 8:30 am to 4:30 pm (Mon. to Fri.) <i>Tehreem Mustafa - Assistant Librarian</i>	Kaemari - Karachi	
		9	College of Medical Technology 8:30 am to 4:30 pm (Mon. to Fri.) <i>Bushra Anwar - Assistant Librarian</i>	Sukkur	
		10	Faculty of Eastern Medicine and Natural Sciences 8:30 am to 4:30 pm (Mon. to Fri.) <i>Samar Majeed - Assistant Librarian</i>	14 KDLB Hospital Library - 8:30 am to 6:00 pm (Mon. - Sat.) <i>Abida Younus - Deputy Librarian</i> <i>Maryam Rani - Library Assistant</i>	
				15 College of Rehabilitation Sciences 8:30 am to 4:30 pm (Mon. to Fri.) <i>Zeeshan Channa - Assistant Librarian</i>	

LIBRARY TRAINING, ORIENTATIONS, AND INTRODUCTION:

Use of ZU Libraries: Collection, Discipline, Membership & Services

3. Anti-plagiarism – Policy and procedure
a. Turnitin Software

2. How to search the literature:

- Online databases;
 - Journals' articles
 - Ebooks
 - Open source material
- Physical literature from the ZU Libraries through Online Public Access Catalog (OPAC)

4. Faculty Publications:

- How to upload your publications in HRMS (ZU Portal)
- In which Journal you may publish your article

5. For Researchers only:

- How to review the literature
- Proposal Writing
- How to write a thesis

FACULTY OF HEALTH SCIENCES



ZIAUDDIN MEDICAL COLLEGE

KEY INFORMATION

DEAN, FACULTY OF HEALTH SCIENCES

Prof. Dr. Abbas Zafar

CONTACT INFORMATION

Website:

<https://zmc.zu.edu.pk/>

Telephone:

+92-21-35862937 Ext: 572, 573

Locate Us:

4/B, Shahrah-e-Ghalib, Block 6, Clifton,
Karachi.



“We did it!

Everyone is ready to throw their graduation caps up in the sky and take the oath to always believe in methylxanthines being the superior class of drugs to be prescribed to a medical student.

These five years at Ziauddin Medical College have been nothing less than the one ride that everybody warns you about in an Adventureland. It's frightening to even think about giving a consult to your sympathetic nervous system but when you are jumping up high, and adrenaline is rushing through your veins, it makes the hardships worth it. All the memories of reaching five minutes late to a closed classroom door by your anatomy professor, running around the entire campus to get your logbooks signed by a resident, or sitting together at zee cafe to eat mayo fries have made this ride worthwhile.

It's pertinent to mention the incredible consultants, professors, and teachers who have been a constant source of support and encouragement to all of us and not only taught us medicine but lessons that will help us become better people in this society.

Lastly, to my fellow graduates “When you leave here, don't forget why you came”, you all are destined for everything great”.

GOLD MEDALIST - BATCH 23
AYESHA MUNEER ARAIN
MBBS

VISION

To provide excellent educational opportunities of national and international standards in a conducive learning environment that serves to empower students to be the world's leaders in achieving global healthcare outcomes.

MISSION

To produce humane health care providers from diverse groups of people to meet future primary health care needs, having virtues of dignity and humanity with an appreciation of the social sciences. Special emphasis is placed on promoting critical reasoning, self-directed and lifelong learning with competencies to research, communicate, and lead efficiently. Integrated, community – oriented, and evidence-based teaching will enable students to collaborate within the healthcare industry for better patient outcomes.

COMPETENCIES OF ZMC GRADUATES

At Ziauddin University we expect to develop in you the following competencies:

- I. Skillful
- II. Self-directed and life-long learner
- III. Communicator
- IV. Collaborator
- V. Professional
- VI. Researcher
- VII. Leader

For Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs) please refer study guides.

INTRODUCTION

Ziauddin Medical College was established in 1996. It is strategically located within the university site at Clifton, Karachi. Medical teaching programmes are spread over three main tertiary care hospitals in different parts of the city. These hospitals are well equipped with advanced diagnostic, monitoring and treatment facilities. Ziauddin Group of hospitals includes:

- Dr. Ziauddin Hospital, North Nazimabad Site: a 350-bedded hospital

- Dr. Ziauddin Hospital, Clifton Site: a 150 bedded hospital
- Dr. Ziauddin Hospital, Kemari Site: a 150 bedded hospital

Other clinical learning sites include:

- Primary Health Care Centre, Sikanderabad.
- Dr. Ziauddin Cancer Hospital, North Nazimabad.
- Dr. Ziauddin Maternal and Child Health Centre, Gole Market Nazimabad.

Ziauddin Medical College prepares its students to become skilled practitioners, researchers and teachers with leadership potential. They develop skills to deal with health problems holistically and solve them at individual, family and community levels, through an innovative programme that emphasizes individual attention in small teaching/learning groups. The undergraduate clinical programmes are community-oriented and address priority healthcare needs of the country. This enables students to acquire the art and skill of probing scientifically into health and related problems of individuals and communities. Students are exposed to a variety of learning strategies to provide experiential learning through a multi-disciplinary approach to patient care.

To meet the challenges posed by the exponential growth of information, students assume the responsibility of their own learning, using student centred learning strategies such as Problem-Based Learning (PBL) and Case Based Discussions, which also promote self-learning skills and teamwork. Research projects, relevant to national and community needs, are also encouraged.

PROGRAMMES OFFERED

Ziauddin Medical College offers Undergraduate and Postgraduate programmes that are recognized by the Pakistan Medical & Dental Council (PMDC), the regulatory body responsible for issuing license to practice medicine and the Higher Education Commission (HEC).

MBBS

INTRODUCTION

At Ziauddin Medical College, a student is identified as an adult learner and is expected to utilize inborn capabilities to adapt and understand the rapidly changing academic atmosphere around the world.

The academic schedule for the MBBS degree programme reflects the innovative system-based course. For the clinical training and experience the students are rotated through all three hospitals affiliated with the University.

The course content is presented with a Body System based Modular approach which is in line with regulations of the Pakistan Medical & Dental Council (PMDC) for MBBS degree. Emphasis is given to the development of conceptual understanding and the ability to construct knowledge for oneself. The students are actively involved in their learning process and the assessment involves examining the learner's entire conceptual network, not just discreet facts and principles.

Curriculum reviews take place critically on a regular basis to incorporate content updates in the form of themes for quality improvement purposes. Patient safety, genetics, medical ethics and molecular medicine are some of the vertically integrated themes introduced in the MBBS curriculum.

Faculty from Basic Health Sciences (BHS), Community Health Sciences (CHS) and Clinical Sciences are collaboratively engaged in teaching programmes. As a result, students develop a comprehensive understanding and holistic approach to recognise and solve healthcare problems.

The Primary Healthcare (PHC) programme run by the university serves as an educational site for community based training. The PHC programme is a unique prototype of partnership between academia, local NGOs, government and international NGOs for education, research and service.

ELECTIVES

For MBBS students, elective experience is mandatory. It should be acquired from institutions which may not be a part of the Ziauddin University system. Students have an option to undergo this in Pakistan or overseas. This experience allows them a wider exposure and enables them to discover their specialised field of interest. The financial responsibility of completing electives is undertaken by the students. The Dean's Office facilitates placement of students for this purpose.

LEARNING AND TEACHING STRATEGIES

SELF-DIRECTED LEARNING

The College prepares students to become independent, self-directed, life-long learners. The introduction of student-centred learning strategy is a step towards promotion of critical thinking and problem solving skills. Students are encouraged to consult from a wide selection of learning resources including books, journals, models, computer assisted learning programmes, digital anatomage table and the internet.

PROBLEM-BASED LEARNING (PBL)

PBL is the leading strategy adopted for learning at Ziauddin Medical College. This approach is characterised by:

- Providing students an opportunity to learn how to deal with problems they may face later in their professional practice.
- Emphasis on self-motivation and responsibility for learning.
- Training for learning professional skills such as leadership and team work.

The aim of problem-based learning is to overcome various drawbacks in the traditional methods of instruction, for instance passive role of students during lectures, irrelevant subject matter in the curriculum, lack of integration between disciplines, insufficient preparation of students for higher education after completing MBBS and in particular, the difficulties experienced by many medical graduates in applying what they have learned.

CLINICAL TRAINING

A balance between hospital, ambulatory care, and community settings is essential for a meaningful exposure to curative, preventive, and rehabilitative aspects of healthcare. Learning at the Ziauddin group of hospitals provides a unique experience of exposure to patients from different geographical and socio-economic backgrounds.

A squatter settlement adjacent to the university, in Sikanderabad, provides community-based setting and the outpatient care for patients belonging to a lower socio-economic class. Family Medicine Health Centre (FMHC) is a low-cost outpatient clinic for the under-privileged population living close to the Clifton site. These sites provide better opportunities of learning to students as they come in contact with a varying range of people and patients with health problems.

Students begin their clinical experience from the third year. After an introductory course they gain an experience in emergency, PHC clinics as well as outpatient and inpatient clinics.

The fourth year is mainly spent at Kemari site with fully developed ENT, Gynaecology and Obstetrics, Ophthalmology departments and clinical disciplines of Medicine and Allied, Surgery and Allied, Paediatrics.

In the final fifth year, students are based in North Nazimabad site where a comprehensive attachment in Medicine, Surgery, Paediatrics aims at a professional problem oriented approach to make them ready for taking care of patients when they graduate. They are encouraged to make their own presentations and participate in discussions as well as gain knowledge from dedicated lectures and group tutorials on selected topics. The hospital's state of the art diagnostics and intensive care facilities help polish their clinical learning.

STUDENT ASSESSMENT

MODES OF ASSESSMENT

Assessment of knowledge, skills and attitudes is accomplished through various modes of assessment. MCQ-one best type, and Viva (oral examination) are mainly used to assess multiple levels of knowledge including recall of basic facts, clinical interpretation and application. However, Objective Structured Practical/-

Clinical Examinations (OSPE/ OSCE) are used to assess skills (practical/clinical) & attitudes with underpinned knowledge background.

CONTINUOUS ASSESSMENT POLICY

Securing minimum scores in an academic year requires consistency in Continuous Assessments. The minimum level is determined by a student's achievement in module examinations, which include written tests, practical assignments and other academic activities. Student eligibility for Summative Examinations is determined by an individual's attendance and performance in Continuous Assessment Test (CAT) during academic year. Each student requires at least 80% attendance to be eligible for appearing in exam. Student performance in each year is judged by formative (continuous) and summative (end of year) assessments.

PROFESSIONAL EXAMINATIONS

As per PMDC policy there are five professional exams, held at the end of each academic year. A consistent record of satisfactory performance is necessary for eligibility to MBBS Final Assessment. Each student's performance is reviewed by the concerned department, which also determines eligibility for the certifying examination. Progression to second, third, fourth and fifth year is regularly determined by achieving satisfactory performance in the respective academic year.

ADMISSION POLICY 2023-24

CRITERIA FOR ADMISSION

Have passed the MDCAT examination conducted by the National Medical Authority.

- Obtained a Higher Secondary School Certificate (HSSC) or Equivalent 12th Grade Qualification with minimum 70% marks.
- A written aptitude test (MCQ) will be conducted by the university.
- Pakistani and foreign students are required to appear for an interview.
- Proficiency in the English language, both in written and verbal expression is required.
- With GCE Cambridge/London, 'Advanced level' (A level), American High School Diploma, and other equivalent Certificates or Diplomas, an equivalence to HSSC (Pre-Medical) will be required from IBCC.
- Candidates who have appeared in HSSC and are awaiting results are also eligible to apply on a provisional basis.

- As updated in PMDC regulation dated 13 July 2023 it will be necessary for candidates to pass the mandatory subjects of biology and chemistry. The student may opt to qualify either physics or mathematics in the examination of the Higher Secondary School Certificate or an equivalent 12th-grade qualification recognized in Pakistan: Provided that the mandatory requirement of MDCAT shall not apply to students seeking admission on a special programme seat predefined exclusively for foreign students and on the seats reserved for overseas Pakistanis. Such students shall qualify SAT-II with a minimum score of 550 in each subject or a foreign MCAT examination or UCAT examination with 50% marks in the subjects.

PAKISTANI STUDENTS

As updated in PMDC regulation dated 13 July 2023 "Pakistani student" means a student who is a Pakistani national and has completed FSc/HSSC or equivalent in Pakistan.

Important Note: Before submitting applications, applicants must ensure that they have complied with the instructions given with the application form. It remains the responsibility of the applicant to submit an application according to the instructions. Students must submit photocopies of documents along with the application. Student's should bring original documents for the purpose of verification by the university at the time of interview. If required, the university will check the authenticity of the documents submitted with the concerned school, college, board, or university.

FOREIGN STUDENTS

As updated in PMDC regulation dated 13 July 2023, A Foreign Student means a student who holds a foreign nationality or is an overseas Pakistani, permanently resident in a foreign country who has studied and passed the HSSC 12th grade examination or equivalent from outside Pakistan and is a resident of a foreign country at the time of applying and possess a certificate from the institution last attended to this effect.

Important Note: Before submitting applications, applicants must ensure that they have complied with the instructions given with the application form. It remains the responsibility of

the applicant to submit an application according to the instructions. Students must submit photocopies of documents along with the application. Student's should bring original documents for the purpose of verification by the university at the time of interview. If required, the university will check the authenticity of the documents submitted with the concerned school, college, board, or university.

ADMISSION TEST

Applicants will be given sufficient time to appear in the test. The test consists of Multiple-Choice Questions of various types. In addition to Biology, Chemistry and Physics corresponding to that expected at the end of Intermediate Examination or equivalent qualifications e.g., 12th Year, etc., there will be questions on English and General Knowledge as well.

Admission Test Structure

Subject Specific	Number of Questions
Biology	40
Chemistry	
Physics	
General Components	60
English	
Maths	
GK/Current Affairs	
IQ/Logical Reasoning	

INTERVIEW

Short-listed applicants will be interviewed to assess their suitability to complete the MBBS course and pursue a career in health sciences.

Structure Of Interview Process For Admission To First Year Mbbs For Session 2023-24.

The following documents are required to be submitted through admission.zu.edu.pk prior to the interview:

- Scanned and attested copies of matric/O-Level mark sheet
- Intermediate/A-Level mark sheet if available.
- MDCAT result/score and merit number if available

The interview process is divided into writing a personal statement giving a personal insight about the candidate; (interests, strengths, weaknesses, accomplishments, etc.). The personal statement which should not be more than 300 words will be submitted prior to the interview.

The interview will be based on general knowledge, self-assessment, analytical skills, critical thinking, motivation, and interest in healthcare, and knowledge about ethics in healthcare. Questions will also be based on the personal statement earlier submitted. Each candidate will be assessed by two interviewers. In case of major discrepancy, a third interviewer will adjudicate. Each candidate will be allocated 10 minutes for the interview with each interviewer.

NOTIFICATION OF ADMISSION

The Registrar of the university will notify students who are successful in the admission process. Successful applicants are given a deadline by which to accept the offer of admission. Offers not accepted by the given deadline will be cancelled.

Important Note: As per PMDC, a student when accepting admission to a college shall be under an obligation to disclose to the college if a prior admission has been accepted by them to any other college, and such student shall prior to accepting such later admission must in writing inform the prior college of cancellation of their acceptance with a copy to the designated email of the Authority. Failure by a student to cancel the prior acceptance of admission shall render all admission offers of the student as void and the student shall be ineligible for admission.

SELECTION CRITERIA FOR ADMISSION 2023-2024

Final Selection of students will be decided on the following weightage.

Ziauddin University Entrance Test: 30%
Higher Secondary School Certificate/A-level: 30%
Ziauddin University Interviews: 20%
MDCAT: 20%

**Documents to be submitted for admission:
For Students Who Have Graduated From
Pakistani Schools**

Duly filled in the application form of Ziauddin University along with the required non-refundable admission fee.

One copy of each mark sheet of the Secondary School Certificate (SSC Part I and II)

One copy of the Secondary School Certificate (if available)

One copy of each of the Higher Secondary School Certificate mark sheets (HSSC Part I and II Pre-medical)

In case the result of HSSC Part II has not been declared by the concerned Board, a photocopy of admit card of the HSSC Part II examination must be submitted.

For students completing GCE, Cambridge/London, one copy each of 'O' and 'A' Levels transcripts.

2. For students who have graduated from overseas Pakistani schools

Duly filled in the application form of Ziauddin University along with the required non-refundable admission fee in US dollars.

One copy of each mark sheet of the Secondary School Certificate (SSC Part I and II)

One copy of the Secondary School Certificate (if available)

One copy of each of the Higher Secondary School Certificate mark sheets (HSSC Part I and II Pre-medical)

In case the result of HSSC Part II has not been declared by the concerned Board, a photocopy of admit card of the HSSC Part II examination must be submitted.

For students completing GCE, Cambridge/London, one copy each of 'O' and 'A' Levels transcripts.

3. For High School Graduates of USA/ Canada

One Copy of the High School Certificate (Grades 9-12 or 13) attested by the school Principal/Officer.

Note: Before Submitting applications, applicants must ensure that they have complied with the instructions given in the form. It remains the responsibility of the applicants to submit the application according to the instruction. Students are expected to submit photocopies of documents along with the application and originals for the purpose of verification by the university. If required, the university will check the authenticity of the documents by submitting to the concerned school, college, board, or university for verification.

REQUIREMENTS FOR SELECTED STUDENTS

Successful students selected for MBBS programme are expected to fulfil the following:

Verification of Educational Testimonials:

Original transcripts, mark sheets, certificates to be brought for attestation by the university.

Medical Examination:

The undergraduate programme is both physically and mentally demanding. Students offered admission are required to undergo a comprehensive medical examination including laboratory investigations and chest X-ray, before they are allowed to join classes.

Immunization:

Clinical experience carries a small personal risk of infection. In their own interest, and also in the interest of patients and others, students must provide evidence of immunization against the following: COVID-19, Tuberculosis (BCG), Diphtheria, Poliomyelitis, Pertussis, Hepatitis B, Tetanus, Measles/Mumps (and Rubella for females).

For further information and guidance, you may contact us on 35862937-9 or email on admission@zu.edu.pk

FEE STRUCTURE 2023-24

	Description	Local Students		Foreign Students	
		Currency	Amount	Currency	Amount
First	Consolidated Fee	PKR	2,200,000	USD	18,000
Second	Consolidated Fee	PKR	2,400,000	USD	18,000
Third	Consolidated Fee	PKR	2,760,000	USD	18,000
Fourth	Consolidated Fee	PKR	2,760,000	USD	18,000
Fifth	Consolidated Fee	PKR	2,760,000	USD	18,000

Note:

- Government tax will be applicable as per prevailing tax law.
- Tuition fee of foreign student is inclusive of Government Tax.
- A student shall have the right to pay the tuition fee on a quarterly, six monthly or annual basis to the college. A student paying the college on a six monthly basis in advance shall be granted a two percent discount in the tuition fee and a student paying the college on an annual basis in advance shall be granted a four percent discount in the tuition fee.

CAREER PROSPECTS OF PROGRAMME

The Bachelor of Medicine, Bachelor of Surgery (MBBS) programme from Ziauddin Medical College opens up a wide range of career opportunities such as; General Practitioner, Medical Officer, Clinical Research Associate, Occupational Health Physician, Medical Writer or Editor, Medical Advisor in Pharmaceutical Companies, Medical Officer in NGOs and Non-Profit Organizations, Medical Educator, Public Health Officer, Hospital Administrator, Medical Consultant, Primary Healthcare Provider, Medical Transcriptionist, Medical Officer in the Armed Forces, Forensic Medical Examiner, Telemedicine Practitioner, Health

Policy Analyst, Medical Quality Assurance Officer, Medical Sales Representative, and Medical Coordinator.

These are just a few examples of career opportunities for MBBS. However, it's important to note that some positions may benefit from additional certifications, specialization, experience, or postgraduate training. It is advisable to research the specific requirements and opportunities available in the desired field of interest.

DIPLOMA IN HEALTHCARE MANAGEMENT

VISION

Revolutionize healthcare through a structured programme focusing on management, research, education, systems improvement, training and development

MISSION

To inculcate managerial competencies in healthcare professionals and bringing them at par with the changing global scenario.

OBJECTIVES

Develop, monitor, evaluate, review and maintain a Postgraduate curriculum that provides:

1. An essential core of knowledge and skills, concepts, tools and techniques of management and administration
2. Basic concepts and techniques of problem-solving, data evaluation and assessment
3. Computer application to health information
4. Relevant correlations between management, finance and IT application to health care, through interdisciplinary courses and through early and continuous exposure to health care delivery facilities
5. A thorough grounding in professional ethics in Health System Management needed to interact appropriately with other care-providers, administrators, patients and their families.

WHO SHOULD APPLY?

Hospital Administrators, Medical Directors, Unit Head of Hospitals, Doctors, Dentists, Nurses, Health technicians, Pharmacists, Doctors in Public sector health system, NGO Personnel

TIMING & MODUS OPERANDII

- A student should undertake 4 courses per Semester
- Saturdays (2 pm to 9 pm) and Sundays (10 am to 5 pm)

ELIGIBILITY CRITERIA

The applicant must have a Bachelor's degree from HEC recognized educational institution in Medicine and Allied (nursing, pharmacy, biomedical engineering etc.)

- Sixteen years of schooling or 4 year education (124 credit hours) after HSSC /F.Sc/Grade 12 equivalent will be required for admission in the MPhil/MS.

Entry Test:

To be conducted by the Ziauddin University and Preliminary interview

COURSE OUTLINE OF DIPLOMA IN HEALTHCARE MANAGEMENT

SEMESTER 1

1. Managing Healthcare Organization
2. Epidemiology and Demography
3. Biostatistics
4. Communication Skills for Healthcare Workers

SEMESTER 2

1. Research Methodology
2. Financial Management
3. Human Resource Management
4. Health Management Information System (HMIS)

SEMESTER 3

1. Introduction to Healthcare Systems
2. Ethics, law and Jurisprudence
3. Organizational Development, Organizational Behaviour and Leadership
4. Continuous Quality Improvement (CQI)

PEDAGOGY

The learning process will be through a mix of lectures, case-based sessions, small group sessions, exercises, assignments and internet-based teaching.

Mandatory electives in the field of choice will allow students to sharpen their skills through application of theoretical learning.

PROGRAMME OUTCOME

After successful completion of programme, the participants will be able to:

1. Analyse contemporary healthcare systems
2. Incorporate research as a mandatory tool for learning and sharing new information.
3. Use scientific and evidence based approach for provision of quality healthcare, which is efficient and cost-effective.
4. Apply epidemiological and statistical concepts for better planning and management of health related issues.
5. Apply principles of financial management, allocation of resources, priority setting and decision making.
6. Demonstrate use of health information systems and technology for effective management of healthcare organization.
7. Market healthcare services focusing on consumer behavior and needs.
8. Apply concepts of human resource management in order to optimize performance.
9. Effectively manage healthcare systems at different levels of care to achieve organizational.

MASTERS IN HEALTHCARE MANAGEMENT

VISION

Revolutionize healthcare through a structured programme focusing on management, research, education, systems improvement, training and development.

MISSION

To inculcate managerial competencies in healthcare professionals and bringing them at par with the changing global scenario.

OBJECTIVES

Develop, monitor, evaluate, review and maintain a Postgraduate curriculum that provides:

1. An essential core of knowledge and skills, concepts, tools and techniques of management and administration
2. Basic concepts and techniques of problem-solving, data evaluation and assessment
3. Computer application to health information
4. Relevant correlations between management, finance and IT application to health care, through interdisciplinary courses and through early and continuous exposure to health care delivery facilities
5. A thorough grounding in professional ethics in Health System Management needed to interact appropriately with other care-providers, administrators, patients and their families.

WHO SHOULD APPLY?

Hospital Administrators, Medical Directors, Unit Head of Hospitals, Doctors, Dentists, Nurses, Health technicians, Pharmacists, Doctors in Public sector health system, NGO Personnel

TIMING & MODUS OPERANDII

- A student should undertake 4 courses per Semester
- Saturdays (2 pm to 9 pm) and Sundays (10 am to 5 pm)

ELIGIBILITY CRITERIA

The applicant must have a Bachelor's degree from HEC recognized educational institution in Medicine and Allied (nursing, pharmacy, biomedical engineering etc.)

- Sixteen years of schooling or 4 year education (124 credit hours) after HSSC /F.Sc/Grade 12 equivalent will be required for admission in the M.Phil/MS.

Entry Test:

To be conducted by the Ziauddin University and Preliminary interview

COURSE STRUCTURE OF MASTERS IN HEALTHCARE MANAGEMENT

Institute	Masters in Healthcare Management Credit	Credit Hours
Total Courses	22 (3 credit hour each course)	66
Thesis	-	6
Total Credit Hours		72

PEDAGOGY

The learning process will be through a mix of lectures, case based sessions, small group sessions, exercises, assignments and internet based teaching.

Mandatory electives in the field of choice will allow students to sharpen their skills through application of theoretical learning

PROGRAMME OUTCOME

After successful completion of programme, the participants will be able to:

1. Analyse contemporary healthcare systems
2. Incorporate research as a mandatory tool for learning and sharing new information
3. Use scientific and evidence based approach for provision of quality healthcare, which is efficient and cost-effective.
4. Apply epidemiological and statistical concepts for better planning and management of health related issues.
5. Apply principles of financial management, allocation of resources, priority setting and decision making.
6. Demonstrate use of health information systems and technology for effective management of healthcare organization.
7. Market healthcare services focusing on consumer behaviour and needs.
8. Apply concepts of human resource management in order to optimize performance.
9. Effectively manage healthcare systems at different levels of care to achieve organizational.

DIPLOMA IN MEDICAL JURISPRUDENCE

INTRODUCTION

Diploma in Medical Jurisprudence is a two-year postgraduate diploma programme to train and equip medical graduates with the relevant professional and ethical knowledge to perform in the medicolegal section of a primary or tertiary care hospital, or to serve in the academic arena as faculty of Forensic Medicine & Toxicology.

MISSION

To produce physicians having the legal and ethical insight to serve as better Medico-Legal experts and to improve the medicolegal system of the country by academic contribution.

OBJECTIVES

The training will develop the academic insight and competency within the enrolled candidates to,

- Conduct medicolegal examinations and autopsies fulfilling all the requirements of the legal system of Pakistan.
- To understand DNA fingerprinting, its application and limitations in resolving the cases of legal importance.
- To understand the pathological basis of injury and signs that may provide clue to the cause of death.
- To identify common lapses and limitations with in the prevailing Medicolegal system of the country and being able to provide suggestions to improve the system in the light of advancements in the field of Forensic Medicine.
- To understand the laws governing the practice of healthcare provision along with the ethical concerns.
- To serve as a medicolegal expert.

ELIGIBILITY CRITERIA

MBBS + One year House Job + Valid PMDC Registration with, one year of teaching experience as demonstrator in the Department of Forensic Medicine & Toxicology, of a PMDC recognized institute/One year experience as

Medicolegal Officer.

- Eligible Candidates will have to pass the entry test held by Ziauddin University.
- Short-listed candidates will be interviewed.
- Final Selection will be made on cumulative basis (Experience + Entry test + Interview).

REQUIRED DOCUMENTS

Documents required for the admission

- Completed DMJ application form
- Copy of MBBS degree with mark sheets of professional examinations and certificate of number of attempts in the professional examinations.
- Copy of PMDC registration certificate
- Three latest passport size photographs
- Reference letters from two consultants, with whom the applicant has worked
- Certificates of completion of required experience
- NOC to attend the course, from the institute (If currently employed).

ASSESSMENT

D.M.J Course consists of 2 parts of one year each that is PART I and PART II.

After completion of each session (1 year), Ziauddin University, Karachi will conduct examination, as per schedule announced by the Controller of Examination.

Examinations will consist of two components.

Components:

1. Theory Examination
2. OSCE & Viva Examination.

80% attendance is mandatory to be eligible in the exams.

SCOPE

After going through this course, successfully, the candidate will be able to serve on the government positions within the Medicolegal system of the country.

The successful candidates serving as faculty members will have a better opportunity to be promoted as per rules and regulations of PMDC.

POSTGRADUATE PROGRAMME IN BASIC HEALTH SCIENCES MPhil/PhD

The Postgraduate Programme in Basic Health Sciences started at ZU in 1997. This integrated programme is divided into semesters and provides extensive experience and training to the candidates who acquire knowledge, skills and an attitude required for teaching and research. The curriculum is covered through problem-based learning, lectures, seminars and journal club. Systems are placed for evaluation and performance concerning the candidate's performance and proper guidance for appropriate growth in all areas of training and professional experience.

MASTER OF PHILOSOPHY (MPHIL)

MPhil candidates in Basic Health Sciences will have to be full time research students for a minimum period of 1.5 academic years. The degree shall be awarded based on both, course work and thesis. The course work is covered in two semesters followed by 6 months of research and advanced technique. The programme is recognised by Pakistan Medical and Dental Council (PMDC) and Higher Education Commission (HEC) and follows regulations for registration to research studies leading to a degree of MPhil in the following subjects: Anatomy, Biochemistry, Physiology, Pathology, Pharmacology, Forensic Medicine and Molecular Medicine.

DOCTOR OF PHILOSOPHY (PH.D)

PhD students in various faculties of Health and Medical Sciences will have to be full time research students for a minimum period of three academic years. The coursework of degree shall be awarded both by course work and thesis. The programme is recognised by PMDC and HEC and follows regulations for registration to research studies leading to the degree of doctorate in the following subjects of Medical and Health Sciences: Biochemistry, Pathology, Pharmacology.

ADMISSION POLICY

ELIGIBILITY CRITERIA

- a) Candidates possessing MBBS/BDS/equivalent degree from a HEC recognised university.
- b) MPhil / PhD GAT exam by university
- c) NTS/GAT
- d) Interviews of candidates shortlisted on the basis of performance in the MPhil GAT exam by university.

Final selection of candidates will be based on the previous academic record and experience, entry test and an interview.



POSTGRADUATE PROGRAMMES IN CLINICAL SUBJECTS

Ziauddin University offers MD/MS programme of a 4 to 5-year duration in various disciplines. The course is designed to produce skilled practitioners, researchers and teachers with exceptional proficiency in the chosen clinical field. The course comprises core subjects and also focuses on clinical research practices.

The programme is supervised by qualified faculty and has support of allied disciplines. The University hospitals are modern and fully equipped with diagnostic services, inpatient facilities including Intensive and Coronary Care Units and also fully equipped Radiology department with an interventional procedures facility. The library is well provided with latest journals and also has multimedia facilities including Internet.

For medical graduates interested in pursuing a research degree, the University offers the following programmes:

DOCTOR OF MEDICINE (MD)

- Cardiology
- Critical Care
- Dermatology
- Emergency Medicine

- Gastroenterology
- Nephrology
- Neurology
- Nuclear Medicine
- Medicine
- Paediatrics
- Psychiatry
- Radiology
- Radiotherapy (Radiation Oncology)

MASTER OF SURGERY (MS)

- ENT
- General Surgery
- Orthopaedic Surgery
- Gynaecology and Obstetrics
- Ophthalmology
- Urology

ADMISSION POLICY

ELIGIBILITY CRITERIA

- Candidates possessing MBBS or equivalent qualification recognised by PMDC and have done one year of House Job in an institute recognised by PMDC.
- Eligible candidates will be required to pass a GAT exam and will be interviewed for suitability by the Postgraduate Committee.

DIPLOMA PROGRAMMES

The University offers Postgraduate Diplomas in the following disciplines:

- Anaesthesia
- Cardiology
- Dermatology
- Family Medicine
- Medical Oncology
- Paediatric Medicine
- Psychiatry
- Gynaecology and Obstetrics
- Clinical Pathology

POSTGRADUATE TRAINING

Ziauddin University is recognised for postgraduate training by the College of Physicians and Surgeons Pakistan for the following programmes:

MCPS

- Chemical Pathology
- Ophthalmology
- Paediatrics
- Clinical pathology

FCPS

- Anaesthesia
- Chemical Pathology
- ENT
- Gastroenterology
- Haematology
- Histopathology
- Medicine
- Microbiology
- Neurology
- Gynaecology and Obstetrics

- Radiology
- Paediatrics
- Surgery
- Nephrology
- Pulmonology
- Critical care
- Orthopaedics
- Forensic Medicine
- Family Medicine
- Radiation oncology

Post Fellowship

- Hepatobiliary and liver Transplant Surgery

MRCOG

- Gynaecology and Obstetrics



DEPARTMENT OF MOLECULAR MEDICINE

INTRODUCTION

The field of Molecular Medicine is often referred to as "tomorrow's medicine". It is a newly emerging and most sought field in medicine globally with a focus on the description of diseases at the molecular and genetic levels with marked changes in the diagnostic modalities.

Molecular Medicine is an interdepartmental, multidisciplinary training programme fostering the development of scientists and educators who are prepared for lifelong participation in research and other intellectual pursuits. With an emphasis on bridging basic and translational science, Molecular Medicine students would receive advanced training in the theory and practice of biomedical science.

Ziauddin University has already taken the prestigious lead among medical universities in Pakistan to introduce this programme for the training of young scientists (clinical and non-clinical), who are keen to pursue careers in basic medical research. This programme is designed to provide candidates with a science and medical background with a sound understanding of the molecular mechanisms of diseases at par with international standards. The well-designed programme covers the fields of Molecular Genetics, Cellular and Molecular Biology, Microbiology, Molecular Pathology, Pathophysiology, Molecular Oncology, Regenerative Medicine, Stem Cells Therapy, Molecular Pharmacology and Bioinformatics. Our goal is to foster teaching and research activities in the study of human diseases with the application of cutting-edge molecular and cell biology techniques.

MISSION

The mission of the Department of Molecular Medicine is to discover, apply and disseminate knowledge of the basis of health and disease and further translate it with innovative tools for the diagnosis, treatment and prevention of disease.

SALIENT FEATURES

- State-of-the-art multidisciplinary research labs
- Wide spectrum of courses and research areas
- Highly qualified and foreign-trained Ph.D. faculty members
- Opportunities to collaborate with local and foreign universities
- Participation in Workshops/Seminars/Conferences
- Convenient class schedule
- Cost-effective fee structure

SCOPE OF THE PROGRAMME

Molecular medicine is a comprehensive field that aims to provide insight to researchers regarding the development of molecular biology tools and the identification of molecular targets for the diagnosis, prognosis and treatment of a diverse number of human diseases.

The value of the Molecular Medicine programme is to develop human resources with knowledge and skills that have widespread applications in both basic sciences and clinical work at medical institutions, research and development (R & D) organizations, pharmaceutical industry, molecular biology laboratories and clinical labs etc.

The research degree would always be an additional academic qualification in all fields, particularly for clinical faculty giving them a research edge for promotions in various academic posts. Training-based education is largely focused on high-quality clinical care but academic institutions require additional research acumen for the generation of new knowledge from evidence-based medicine therefore; they can work as research associates/ research officers and scientists in clinical departments.

DEGREE PROGRAMMES OFFERED

- Bachelor of Science (BS)
- Master of Philosophy (MPhil)
- Doctor of Philosophy (PhD)

BS MOLECULAR MEDICINE

- **Eligibility:** HSC in science / A-levels or equivalent. Admission test and interviews will be conducted for final selection.
- **Programme Duration:** 4 years (8 semesters)
- **Course Load Per Semester:** 5-6 courses (15-18 Cr Hrs.)



MPHIL MOLECULAR MEDICINE

- **Eligibility:** Sixteen years of education in Biological Sciences (Biochemistry, Genetics, Microbiology, Biotechnology, Medical Technology, Physiology etc.), M.B.B.S., B.D.S., D.V.M., Eastern Medicine and Pharm.D. or equivalent degree from HEC recognized institutions with minimum CGPA of 2.5 on a scale of 4.00 in B.S./M.Sc. in semester system or 60% marks in annual system.
- **Programme Duration:** 2-4 years
- **Total Credit Hours:** 30 (24 courses + 6 Thesis)



PhD MOLECULAR MEDICINE

- **Eligibility:** Candidates applying for admission to the Molecular Medicine PhD programme should have a minimum of 18 years of education, MS/MPhil/MD/MS/FCPS, FRCS, MRCP or equivalent degree with first division and CGPA of 3.00 on a scale of 4.00 or overall, 60% marks in annual system or equivalent in the relevant subject is a prerequisite from any recognized University. In the case of a foreign degree, it will be ascertained that it is equivalent to a Pakistani MPhil/ MS degree from any recognized University / Institution. Admission will be confirmed only after passing the ZU entry test (GAT) and an interview conducted by ZU. The test carries both the subject-specific components (70%) along with English Language and Analytical/Logical Reasoning (30%). The final selection of candidates will be based on cumulative merit determined from the previous academic record, experience, entry test and interview.
- **Programme Duration:** 4-7 years
- **Total Credit Hours:** 18

FACULTY

HEAD OF THE DEPARTMENT

PROF. DR. TALAT MIRZA

ASSISTANT PROFESSOR

DR. SHUMAILA USMAN (PG PROGRAMME COORDINATOR)
DR. YAMNA KHURSHID (BS PROGRAMME COORDINATOR)
DR. ABDUL HAMEED (BS PROGRAMME DEPUTY COORDINATOR)
DR. AMBRINA KHATOON
DR. REHAN IMAD

LECTURER

MR. MOAZZAM SHAHID
MS. URFA KAYANI

CONTACT INFORMATION

Office of the Executive Director Research,
Ziauddin University
Karachi 75600, Pakistan
Tel: +92 21 35862397-9, Ext. 2365 & 2366
Fax: +92 21 35862940
Email: deanresearch@zu.edu.pk
URL: www.zu.edu.pk

FACULTY MEMBERS

PRO-CHANCELLOR

Prof. Dr. Nida Hussain

DEAN, FACULTY OF HEALTH SCIENCES

Prof. Dr. Abbas Zafar

PRINCIPAL, ZIAUDDIN COLLEGE OF MEDICINE

Prof. Dr. Nuzhat Hassan

DIRECTOR, POSTGRADUATE STUDIES (CLINICAL)

Prof. Dr. Ejaz Ahmed Vohra

ASSOCIATE DIRECTOR ACADEMICS, NORTH SITE (CLINICAL)

Prof. Dr. Ahmed Fawad

ASSOCIATE DIRECTOR ACADEMICS, CLIFTON SITE (CLINICAL)

Prof. Dr. Uzma Ghouri

ASSOCIATE DIRECTOR ACADEMICS, KDLB (CLINICAL)

Dr. Fasiha Sohail

ANATOMY

DR. NUZHAT HASSAN
PRINCIPAL AND PROFESSOR
MBBS, M.PHIL

DR. BUSHRA WASIM
PROFESSOR AND HOD
MBBS, FCPS, PHD

DR. KEVIN JOSEPH JEROME BORGES
PROFESSOR
MBBS, M.PHIL, CHPE, CFM

DR. SYED NUDRAT NAWAID SHAH
ASSOCIATE PROFESSOR
MBBS, M.PHIL, CHPE, CFM

DR. MADEEHA SADIQ
ASSOCIATE PROFESSOR
MBBS, M.PHIL, CHPE, CFM

DR. MUBINA
ASSISTANT PROFESSOR
BDS, M.PHIL, CHPE

DR. TABINDA
ASSISTANT PROFESSOR
MBBS, M.PHIL

DR. INAYATULLAH
ASSISTANT PROFESSOR
MBBS, M.PHIL, CHPE

DR. GULRAIZ KARIM RIND BALOCH
ASSISTANT PROFESSOR
MBBS, M.PHIL

DR. ANUM IFTIKHAR
LECTURER
BDS

DR. AMNA IJAZ
LECTURER
MBBS, CHPE

DR. UNSSA NAZ AGHA
LECTURER
MBBS

DR. AMAL HUMAYUN
LECTURER
MBBS

DR. SANA AZWAR
LECTURER
BDS, M.PHIL

DR. MAROOSHA IMRAN
LECTURER
MBBS

RABIA
LECTURER
MBBS

ALI SALEEM LALANI
LECTURER
MBBS

BIOCHEMISTRY

DR. ZILE RUBAB
PROFESSOR AND HOD
BSC, MBBS, MPHIL. PHD, PG, CERT HMS

DR. SAEEDA BAIG
PROFESSOR
BSC(HON), MSC,

DR. SHAMIM MUSHTAQ
PROFESSOR & DIRECTOR,
POSTGRADUATE PROGRAMME (BHS)
BS, MSC, MPHIL, PHD

DR. SYED ZARYAB AHMED
ASSOCIATE PROFESSOR
MBBS, MPHIL

DR. AFREEN BHATTY
ASSISTANT PROFESSOR
BDS, MPHIL

DR. ALIYA IRSHAD SANI
ASSISTANT PROFESSOR
MBBS, MPHIL

DR. SHEH ZANO
ASSISTANT PROFESSOR
BDS, M.PHIL

DR. HAFIZ SYED MUHAMMAD OSAMA JAFRI
LECTURER
BDS, MPHIL
MBA (HOSPITAL & HEALTH MANAGEMENT)

DR. FARAH AZHAR
LECTURER
BDS, MHM, CHPE

DR. SHIAN ANGELO
LECTURER
BDS

DR. TEHREEM
LECTURER
MBBS, MPHIL.

PHYSIOLOGY

SYED TOUSIF AHMED
PROFESSOR
MBBS, M.PHIL.

SHAZIA HASHMAT
ASSOCIATE PROF.
BDS, M.PHIL.

HUMA ASIF
ASSISTANT PROF.
MBBS, M.PHIL.

HIRA ATTIQUE
ASSISTANT PROF.
MBBS, M.PHIL.

MURK FATIMA
ASSISTANT PROF.
MBBS, M.PHIL.

DR. MAHREEN INAM
ASSISTANT PROF.
MBBS, M.PHIL.

MISS. HUMAIRA
LECTURER
M.SC, M.PHIL.

DR. ADNAN AQUEEL
LECTURER
MBBS

DR. ANUM HUSSAIN
LECTURER
MBBS

DR. SHOAIB PATEL
LECTURER
MBBS

DR. HAFSA TAJWAR
LECTURER
MBBS

DR. AREEBA MAJID
LECTURER
MBBS

DR. SAMIA DAWACH
LECTURER
MBBS

DR. SAMIA ZAHID HUSSAIN
LECTURER
MBBS

PATHOLOGY

DR. FOUZIA SHAIKH
PROFESSOR AND HOD
MBBS, M.PHIL, PH.D. CHPE

DR. FARAZ AHMED BAIG
PROFESSOR
MBBS, M.PHIL

DR. NAJIA TABASSUM
ASSOCIATE PROFESSOR
MBBS, M.PHIL

DR. FARAZ HASSAN MIRZA
LECTURER
MBBS, M.PHIL

DR. MARVI RAZA
LECTURER
MBBS, M.PHIL

DR. SADIA ARIF
LECTURER
MBBS, M.PHIL

DR. JUNAID ANWAR
LECTURER
MBBS

DR. MUKESH KUMAR
LECTURER
MBBS, M.PHIL

DR. SYEDA NAVEERA RAZA
LECTURER
MBBS

DR. SYEDA ZEHRA AHMAD
LECTURER
MBBS, M.PHIL

DR. LYBA SOOMRO
LECTURER
MBBS

DR. ALINA SAEED
LECTURER
MBBS

DR. KALSOOM MURTAZA
LECTURER
MBBS

DR. MARYAM ALVI
LECTURER
MBBS

DR. MOMINA ALI
LECTURER
MBBS

DR. ALWINA JANJUA
LECTURER
MBBS

DR. MOHAMMAD BASHARAT KHAN
LECTURER
MBBS

DR. SYED ASAD SIBTAIN
LECTURER
MBBS

PHARMACOLOGY

DR. M. OWAIS ISMAIL
PROFESSOR AND HOD
MBBS, M.PHIL

DR. SHEHLA SHAHEEN
PROFESSOR
MBBS, M.PHIL

DR. KAUSER MOIN MIRZA
ASSOCIATE PROFESSOR
MBBS, M.PHIL.

DR. ABDUL JABBAR QURESHI
ASSISTANT PROFESSOR
BDS, M.PHIL

DR. AKHTAR ALI
ASSISTANT PROFESSOR
BDS, M.PHIL., MS-HCM

DR. HAROON UR RASHEED
LECTURER
BDS, MPHIL

DR. SOHA HAQUE
LECTURER
MBBS, MPHIL

DR. SABRA SIRAJ
LECTURER
MBBS

DR. TEHNIYAT JAMSHED
LECTURER
BDS

DR. EMAN SHEIKH
LECTURER
MBBS

DR. HAMZA MUHAMMAD SYED
LECTURER
MBBS

DR. AHMED ABDUL GHAFOOR
LECTURER
MBBS

DR. MUNIRA SARFARAZ
LECTURER
MBBS

DR. SAMIA AHMED
LECTURER
MBBS

DR. SANIYA REHMAN
LECTURER

ANUSHE MOHSIN
LECTURER
MBBS

FORENSIC MEDICINE

DR. QUDSIA HASSAN
PROFESSOR AND HOD
MBBS, DMJ, FCPS, PH.D.,
DIP. BIOMEDICAL ETHICS

DR. MUHAMMAD IKRAM ALI
ASSOCIATE PROFESSOR
M.B.B.S, DMJ, DIP. BIOMEDICAL ETHICS

DR. MARVI MASOOD FAROOQUI
ASSISTANT PROFESSOR
MBBS, DMJ

DR. MUHAMMAD TAHA SOHAIL
LECTURER
MBBS

DR. KOMAL MUMTAZ
LECTURER
MBBS

DR. MUAZ ABBASI
LECTURER
MBBS

DR. MIRZA ALTAMISH
LECTURER
MBBS

COMMUNITY HEALTH SCIENCES

DR. IMRAN SHAIKH
PROFESSOR AND HOD
MBBS, MPH (AUST.), FCPS,
FELLOW OF FAIMER – ECFMG (USA)

DR. FARAH AHMED
PROFESSOR
MBBS, DCPS, MSBE, MCPS

DR. SYED HASSAN DANISH
ASSOCIATE PROFESSOR
MBBS, MPH (USA), CHPE, FCPS

DR. BINA FAWAD
ASSISTANT PROFESSOR
MBBS, DCPS (CPSP), FCPS

DR. AAIMA
LECTURER
MBBS

DR. MAHAM TAUQEER
LECTURER
MBBS

FAMILY MEDICINE

FATIMA JEHANGIR
ASSOCIATE PROFESSOR AND HOD
MBBS, FCPS

YASEEN USMAN
ASSISTANT PROFESSOR
MBBS, MCPS, MRCGP

RIZWANA HASHMI
ASSISTANT PROFESSOR
MBBS, MRCGP

DR. VINOD KUMAR
ASSISTANT PROFESSOR

TALAT PARVEEN
SENIOR REGISTRAR
MBBS, MCPS

MADIHA ATHAR
SENIOR REGISTRAR

NAUREEN KAZMI
SENIOR REGISTRAR

AROOSA JEHAN
SENIOR REGISTRAR

JAWAID HABIB
SENIOR REGISTRAR

NAWAB BIJARANI
SENIOR REGISTRAR

FARHAN ZAIDI
SENIOR REGISTRAR

MOLECULAR MEDICINE

PROF. DR. TALAT MIRZA
PROFESSOR AND HOD
MBBS, M.PHIL., PH.D. (HISTOPATHOLOGY)

DR. SHUMAILA USMAN
ASSISTANT PROFESSOR
BS., PH.D. (MOLECULAR MEDICINE)

DR. AMBRINA KHATOON
ASSISTANT PROFESSOR
B.SC. (HONS.) M.SC.,
PH.D. (BIOTECHNOLOGY)

DR. ABDUL HAMEED
BS., PHD.,
POST-DOC (JAPAN)

DR. REHAN IMAD
BS.MT, PHD
ASSISTANT PROFESSOR &
IN CHARGE MDRL-1



COLLEGE OF DENTISTRY

KEY INFORMATION

PRINCIPAL

Prof. Dr. Wahab Buksh Kadri

CONTACT INFORMATION

Website:

<https://zu.edu.pk/college-of-dentistry>

Telephone:

+92-21-35862937-9 Ext: 2219 - 2216

Email:

zcd@zu.edu.pk

Locate Us:

4/B, Shahrah-e-Ghalib, Block 6, Clifton,
Karachi.



The past 4 years at Ziauddin flew by in a blur. The nervous yet excited kids embarking on a roller coaster of a journey are now finally doctors. From spending hours in the Dental Materials and Phantom lab to actually being responsible for a human being.

Ziauddin College of Dentistry provided us with the knowledge and skills sets required for us to take complete care of our patients to the best of our abilities. The faculty here is nothing short of supportive and encouraging, creating a safe space for us to learn and grow. We are very grateful for our experience at ZDC. The feeling of making our parents and our loved ones proud is truly unexplainable.

All 50 of my batch mates and I are cut from different cookie cutters, hence, our individual experiences during our time at ZDC are very different. However, what remains the same are the countless hours we spent studying and polishing our skills. We can safely say none of our mentors efforts went to waste. Sometimes we ourselves are in awe of what we're capable of now.

And now, we're ready to embark on new journeys and wherever life takes us. Good luck to everyone.

RABIA HUMAYUN
BDS

INTRODUCTION

College of Dentistry started its BDS programme in January 2010 with the mission to prepare confident dental professionals who are committed to excellence in the field of patient care and research that widens the horizon of knowledge regarding to community health problems.

At College of Dentistry, a student is identified as an adult learner and is expected to develop as a responsible individual by taking care of the community's dental problems.

VISION

To be recognized as a leading dental institution known nationally and internationally for providing academic excellence of the highest professional standards to enable dental graduates to be the leaders in delivering quality oral healthcare services.

MISSION

To develop dental health professionals from diverse groups of people as leaders, possessing virtues of dignity and humanity, with clinical excellence, to meet the primary oral health care needs. Emphasis is placed on promoting critical reasoning, self-directed and lifelong learning competencies to research, communicate and lead efficiently. Community-oriented, evidence-based, and innovative technology-enhanced teaching enables students to be ethically and socially accountable in treating patients and addressing the challenges of the dental healthcare industry.

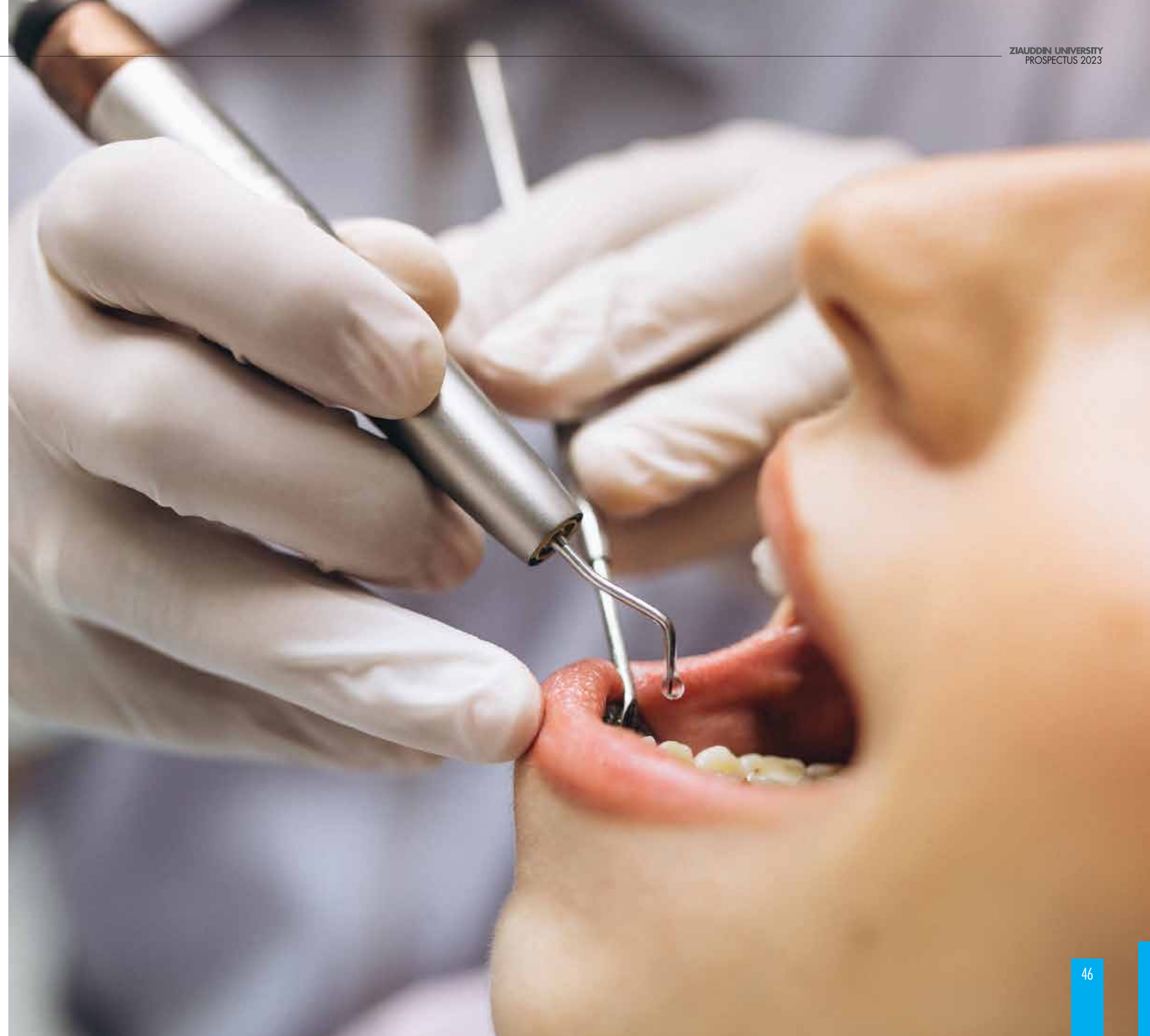
COMPETENCIES OF ZU GRADUATES:

At Ziauddin University we expect to develop in you the following competencies:

- I. Skillful
- II. Self-directed and life-long learner
- III. Communicator
- IV. Collaborator
- V. Professional
- VI. Researcher
- VII. Leader

PROGRAMMES OFFERED

College of Dentistry offers BDS undergraduate programme, recognised by the Pakistan Medical and Dental Council (PMDC). PMDC is the regulatory body responsible for issuing a license to practice dentistry.



BACHELOR OF DENTAL SURGERY (BDS)

College of Dentistry offers a four-year undergraduate degree programme leading to Bachelor of Dental Surgery (BDS).

MISSION

To develop dental health professionals from diverse groups of people as leaders, possessing virtues of dignity and humanity, with clinical excellence, to meet the primary oral health care needs. Emphasis is placed on promoting critical reasoning, self-directed and lifelong learning competencies to research, communicate and lead efficiently. Community-oriented, evidence-based, and innovative technology-enhanced teaching enables students to be ethically and socially accountable in treating patients and addressing the challenges of the dental healthcare industry.

COURSE DETAILS

The BDS programme is divided into four academic years; each year comprises a number of modules related to subject specific scientific information, in accordance with PMDC recognised curriculum. College of Dentistry has taken the initiative of developing and implementing a horizontally integrated curriculum. The curriculum makes use of the latest teaching strategies, which are aimed at providing better quality of education to the students.

LEARNING AND TEACHING STRATEGIES

The college recognises the challenges met by students once they enter into professional lives. Therefore, students are empowered to adapt to the different ways of absorbing information and take responsibility of their own learning using student centered learning strategies such as Problem Based Learning (PBL) and Case Based Sessions (CBS). Community Oriented Education is also given its due importance in the College of Dentistry.

Students are actively involved in the learning process by interacting in small groups and by collecting, analysing and synthesising information relevant to the problems they are going to face in their professional lives.

PROBLEM-BASED LEARNING

PBL is one of the strategies adopted for learning at the College of Dentistry. This approach is characterised by:

- Opportunities to deal with problems students face in later professional practice.
- Emphasis on self-motivation and responsibility for learning on their own.
- Training for learning professional skills, leadership qualities and team work.

The aim of problem based learning is to overcome various drawbacks in the traditional methods of instruction; for instance the passive role of students during lectures, irrelevant subject matter in the curriculum and a lack of integration between disciplines.

LABORATORIES

Basic Dental and Medical Science laboratories and Dental OPDs are fully equipped with state of the art equipment, models and other teaching aids ensuring an excellent academic environment for students.

We are proud to have the first and only dental simulation devices with 3D integration in Pakistan. These simulation devices help students learning the clinic skills from their 1st year of studies.

STUDY GUIDE BOOK

On the commencement day, students are given course/study guides which contain the course objectives and teaching strategies for the 1st year of BDS with the planner for the entire academic year. The study guide also identifies all rules and regulations that the student is required to abide by. Likewise, for the subsequent academic years, study guides are supplied to all promoted students on the respective orientation days.

CLINICAL TRAINING

In addition to the theoretical knowledge, it is important that the students have a significant exposure to the curative, preventive and reha-

ilitative facets of oral and general healthcare. The first exposure of the dental students to a clinical environment starts in their 2nd professional year, where students are first trained on phantom heads about the clinical aspects of treatment and soon after it, they are taken for field visits to the community settings as part of their community dentistry training; they are primarily trained for detailed history taking or dental records.

Third year BDS students receive clinical training for General Medicine, General Surgery and other Clinical subjects of BDS curriculum at the following hospitals:

- Dr. Ziauddin Hospital, Clifton Site – 150-bedded Hospital
- KDLB Kemari Site -125-bedded Hospital.
- Clinical Departments (OPD) for College of Dentistry, Clifton Site 75 dental Units.

The students attend OPDs and wards where they obtain first-hand knowledge by dealing with patients under faculty supervision. Apart from clinical learning under the supervision of Faculty of Health Sciences, the students also work in the clinical departments, where they gain experience with patients and are trained in different clinical procedures.

In the final year, students spend most of their time in Dental OPDs. Their training not only includes performing procedures on patients, but also learning crucial skills that help to groom their interpersonal and professional behaviour and attitudes.

STUDENT ASSESSMENT

GENERAL PRINCIPLES

It is recognised that the methods of assessment have a strong influence on shaping students' learning approach. At College of Dentistry, the structure, content and process of all assessments are designed to reflect and reinforce the specified learning objectives at each stage of the programme. Assessments serve the purpose of providing feedback to the students and the faculty as well as certification.

EXAMINATIONS

Examinations are conducted by the examination department of Ziauddin University. Continuous Assessment Tests (CAT) are held at the end of each module. At least 80% attendance in each course is mandatory for eligibility to appear in the final examination. Promotion to the next classes is based on clearance in all the courses scheduled in a year.

TOOLS OF ASSESSMENT

- BCQ and Multiple Choice Questions (BCQs/MCQs).
- Short essay questions (SEQs).
- Objective Structured Practical/Clinical Examinations (OSPE/OSCE).
- Viva voce is used to assess knowledge mainly of a higher level.

BDS GRADUATES REGISTRATION

As per Pakistan Medical and Dental Council (PMDC) rules, registration of BDS graduates is mandatory for dental practice and postgraduate education in Pakistan and abroad.

HOUSE-JOB TRAINING

Ziauddin University Hospitals offer a house job to its graduates. A structured training programme has been designed that allows appropriate training for house officers in all domains of dentistry. In addition, house officers have the opportunity to participate in multidisciplinary seminars and academic or clinical conferences. House job training is conducted strictly according to PMDC guidelines.

ADMISSION POLICY

BDS

Admission to College of Dentistry for a four year BDS degree course is open to all individuals who meet the selection criteria.

NOTIFICATION OF ADMISSION

The Registrar of the university will notify students who are successful in the admission process. Successful applicants are given a deadline by which to accept the offer of admission. Offers not accepted by the given deadline are cancelled.

REQUIREMENTS FOR SELECTED STUDENTS

Successful students selected for BDS

programme are expected to fulfill the following:

a) Verification of Educational Testimonials

Original transcripts, mark sheets and certificates to be brought for verification by the university.

b) Medical Examination

The undergraduate medical programme is both physically and mentally demanding. Students offered admission are required to undergo a comprehensive medical examination including laboratory investigations and chest X-ray, before they are allowed to join classes.

c) Immunisation

Clinical experience carries a small personal risk of infection. In their own interest, and also in the interest of the patients and others, students must provide evidence of immunisation against the following:

Tuberculosis (BCG), Diphtheria, Poliomyelitis, Pertussis, Hepatitis B, Tetanus, Measles/Mumps (and Rubella for females).

FINANCIAL POLICY

Students seeking admission to BDS first year of Ziauddin University are expected to pay the fee approved by the Governing Body of the University and as per guidance provided by PMDC. Admission fee is submitted only once, at the time of admission.

For local students, fee will be paid in Pakistani currency and for overseas students in US dollars.

Parents/guardians are advised to ensure that the fee for each academic year is paid by the due date.

The university reserves the right to cancel admission if the fee is not paid by the due date.

CONTACT INFORMATION

Mr. Bilal Ahmed

P.A. to Principal, College of Dentistry,

+92-21-35862937 (Ext: 2219)

zcd@zu.edu.pk

Prof. Dr. Shoaib Khan

Professor, College of Dentistry,

(Incharge Admission Cell)

+92-21-35862937 (Ext: 2216)

MPHIL

The postgraduate programme for basic dental science subjects started at College of Dentistry in 2011. The programme is recognised by Pakistan Medical and Dental Council (PMDC & HEC) and follows regulations for registration to research studies leading to the degree of M.Phil. in the subjects of Oral Biology and Oral Pathology.

M.Phil. programme of Ziauddin University has been devised with a view to produce self-motivated individuals who wish to further their careers by gaining a higher qualification.

LEARNING AND TEACHING STRATEGIES

At Ziauddin University, candidates are given an opportunity to learn the fundamentals of Educational Methodology while participating in conducting an undergraduate programme. This is achieved by means of regular meetings and workshops held by the Department of Education. In addition to this, candidates are encouraged to gain on job experience by engaging in academic activities comprising of latest teaching methodologies. Following are the teaching strategies used to improve student learning:

- Seminars, demonstrations and presentations
- Case discussions
- Rotations in Clinical laboratories for relevant training
- Update of knowledge through study of recent journals and internet browsing. Journal clubs and group discussion.

SEMESTER SUMMARY

CURRICULUM

The curriculum of M.Phil. in Basic Dental Sciences is covered in one and half years. First year comprise of two.

YEAR ONE

The curriculum content for two semesters of year one is arranged in different modules. The student evaluation is carried out at the end of modules and at the end of each semester.

YEAR TWO

As recommended by HEC second year of M.Phil. is spread over 16 weeks of course/laboratory work and research. In the second year students are required to submit their synopsis in the field of their interest.

In year two candidates are also required to carry out their research work and are exposed to advance techniques and finally present their thesis for defense.

EVALUATION

Semester examinations include written as well as Viva Voce/Oral components.

ADMISSION POLICY

ELIGIBILITY CRITERIA

- Candidates possessing BDS degree from a HEC recognised university
 - M.Phil. entry test/NTS GAT
 - Interviews of candidates short-listed on the basis of performance in the M.Phil. entry test.
- Final selection of the candidates is based on the previous academic records, experience, entry test and interview.

CONTACT INFORMATION

Prof. Dr. Imran Alam Moheet

Professor,

M.Phil. Co-ordinator, College of Dentistry

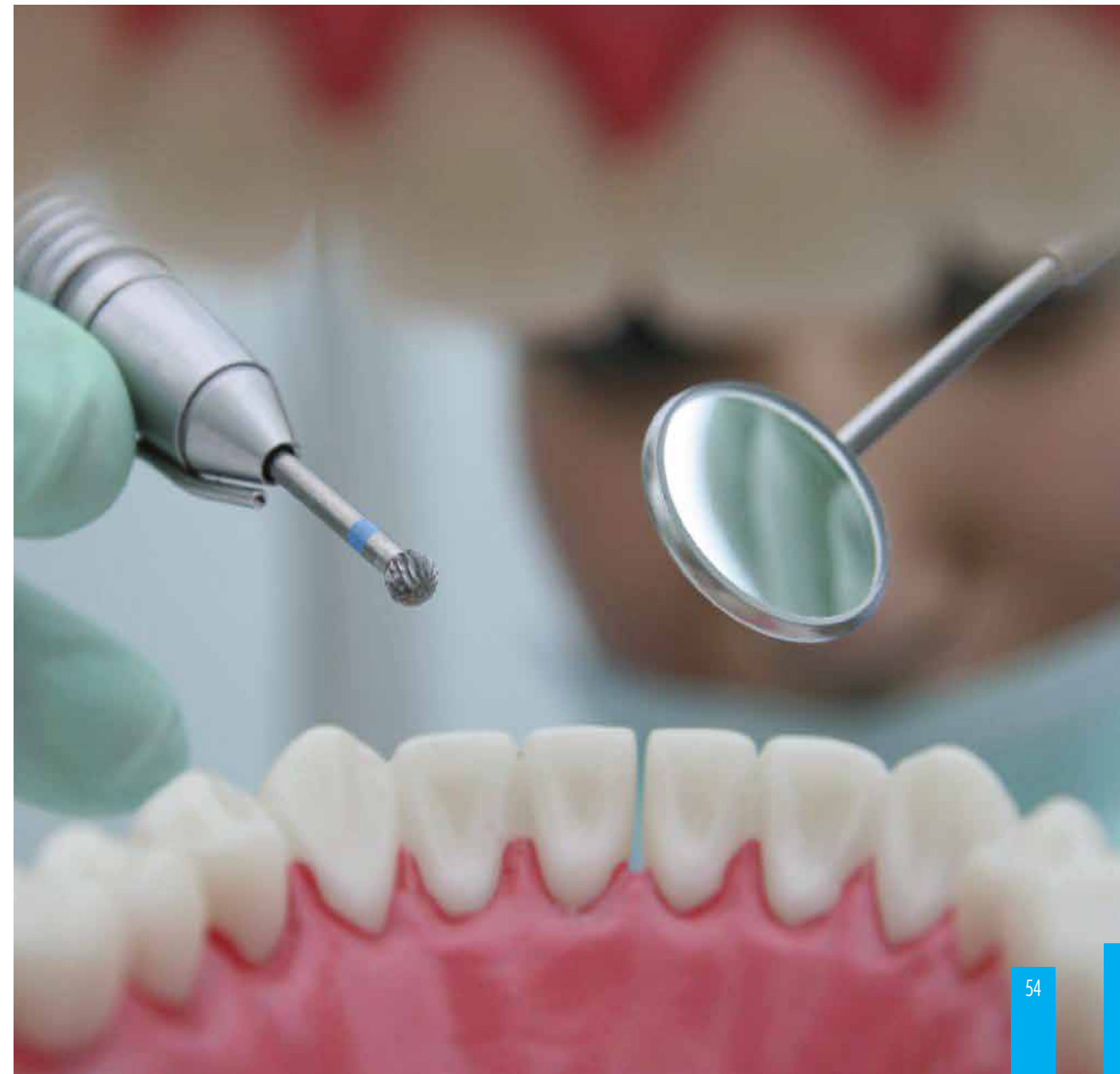
+92-21-35862937 Ext: 2227

FACULTY MEMBERS

PRINCIPAL Prof. Dr. Wahab Buksh Kadri		
Department of Science of Dental Materials		
Prof. Dr. Shoaib Khan	Professor / HOD	BDS, MSC, FICDE
Prof. Dr. Imran Alam Moheet	Professor	BDS, MSC, PHD CHPE
Dr. Nazish Fatima	Associate Professor	BDS, MDS, MCPS (HPE)
Dr. Mahnoor Moiz	Lecturer	BDS, MHM, CHQP
Dr. Waqas Khan Jadoon	Lecturer	BDS
Dr. Hira Sikander	Lecturer	BDS
Department of Oral Biology		
Dr. Fizza Saheer	Assistant Professor	BDS, M.Phil. CHPE
Dr. Hira Batool	Sr. Lecturer	BDS, M.Phil.
Dr. Khushub Lohana	Sr. Lecturer	BDS, MSc
Dr. Naseer Khan	Lecturer	BDS
Department of Community Dentistry		
Dr. Sidra Mohuddin	Associate Professor / HOD	BDS, MDS, CHPE
Dr. Abeeha Batool Zaidi	Sr. Lecturer	BDS, MPH
Dr. Yusra Altaf	Lecturer	BDS
Dr. Ramsha Zarar	Lecturer	BDS
Department of Oral Pathology		
Dr. Saima Akram Butt	Associate Professor / HOD	BDS, BSC, MDS, CHPE, MHM. CHQP
Dr. Fizza Abadi	Assistant Professor	BDS, M.Phil.
Dr. Kanwal Iqbal	Sr. Lecturer	BDS, M.Phil.
Dr. Sana Fatima	Sr. Lecturer	BDS, MDS
Dr. Zehra Farooqi	Lecturer	BDS, MHM
Dr. Alina Aamir	Lecturer	BDS
Dr. Fatima Junaid Siddiqui	Lecturer	BDS
Department of Oral Medicine		
Dr. Afifa Razi	Associate Professor / HOD	BDS, FCPS
Dr. Aeman Ali	Sr. Registrar	BDS, MSc
Dr. Nosheen Nazir	Lecturer	BDS
Dr. Amina	Lecturer	BDS

Department of Oral Surgery		
Prof. Dr. Noor Ul Wahab	Professor / HOD	FDSRCS(Ed.UK), FFDRCSI, FCPS, BDS
Dr. Atif Butt	Assistant Professor	BDS, MCPS
Dr. Nameera Agha	Lecturer	BDS
Dr. Itrat Fatima	Lecturer	BDS
Dr. Razan ahmed	Lecturer/FCPS Trainee	BDS
Dr. Komal Shahzad	Lecturer/FCPS Trainee	BDS
Dr. Hafiz Mujtaba Hussain	Lecturer/FCPS Trainee	BDS
Department of Operative Dentistry		
Prof. Dr. Asmat Jamil	Professor / HOD	BDS, FCPS
Prof. Dr. Hina Ahmed	Professor	BDS, FCPS
Dr. Sadaf Feroz Ali	Assistant Professor	BDS, FCPS
Dr. Pooja Balani	Sr. Lecturer	BDS, MDS
Dr. Farah Amin	Lecturer	BDS
Dr. Zain Ahmed Farooqi	Lecturer	BDS
Dr. Areesha Khan	Lecturer	BDS
Dr. Ali Ahmed Kazi	Lecturer	BDS
Dr. Sikander Majeed	Lecturer	BDS
Dr. Maha Laqa Maroof	Lecturer	BDS
Dr. Maria Sohail Ghazi	Lecturer/FCPS Trainee	BDS
Dr. Hina Wahid	Lecturer/FCPS Trainee	BDS
Dr. Saima Mushtaq	Lecturer/FCPS Trainee	BDS
Dr. Hajira	Lecturer/FCPS Trainee	BDS
Department of Periodontology		
Dr. Saima Sameer	Assistant Professor/HOD	BDS, FCPS
Dr. Ayesha Saghir Butt	Lecturer	BDS
Dr. Aatir Ateeq	Lecturer	BDS
Dr. Sidra Rauf	Lecturer	BDS
Department of Prosthodontics		
Prof. Dr. Haroon Rashid Baloch	Professor / HOD	BDS, MDS
Dr. Usman Bashir Shaikh	Assistant Professor	BDS, FCPS
Dr. Fatima Farhan	Lecturer	BDS
Dr. Saima Taheem	Lecturer	BDS
Dr. Muntazar Ali Mehdi	Lecturer	BDS
Dr. Mustafa Shaizad	Lecturer	BDS, MHM
Dr. Zara Elahi	Lecturer	BDS

Department of Orthodontics		
Prof. Dr. Sarwat Memon	Professor / HOD	BDS, FCPS, CHPE
Dr. Farhan Qadeer Shaikh	Sr. Lecturer	BDS
Dr. Hafsa Mahida	Lecturer	BDS
Dr. Sumita	Lecturer	BDS
Dr. Farooq Ahmed Khan	Lecturer	BDS
Dr. Rafia Aijaz	Lecturer	BDS



COLLEGE OF SPEECH LANGUAGE & HEARING SCIENCES

KEY INFORMATION

PRINCIPAL

Ms. Amina Siddiqui

CONTACT INFORMATION

Website:

<https://zcslhs.zu.edu.pk/>

Telephone:

+92-21-35862937

+92-21-35148625-6

Locate Us:

D-24, Block 1, Clifton, Karachi

"My bachelor's in Audiology and Speech Language Therapy at the College of Speech Language & Hearing Sciences, Ziauddin University has been an appreciable experience. The programme is quite extensive in terms of learning about a variety of disorders affecting the paediatric and geriatric populations, through the geriatric population.

The teachers are professional, competent and passionate in their field and have knowledge of the latest evidence-based practices for assessment and treatment of disorders affecting an individual's speech, language and hearing abilities. The faculty is always present to help, encourage and inspire me. The classes are relaxing and productive. Each course provided is structured to meet the student's needs and the projects are diverse and interesting, allowing us as students to showcase our capability and understanding of the course.

Studying at College of Speech Language & Hearing Sciences, Ziauddin University with a supportive team of teachers have polished my communication skills and provided me with the courage to be confident in my own work, voice my opinion and has encouraged and motivated me to put my skills to work.

The clinical experience gained as a student working at the Ziauddin Speech, Language & Hearing Sciences Clinic alongside a variety of other institutional and tertiary care placements provided all the support, necessary tools and knowledge required to step into the professional career and even secure a job before graduating.

It was great learning and academic experience altogether and this degree prompted me in securing a job before graduating. I am looking forward to applying the numerous skills learnt and for the exciting opportunities my profession is going to bring".

RABIA AFZAL
BS AUDIOLOGY AND SPEECH LANGUAGE THERAPY

INTRODUCTION

The establishment of the College of Speech Language and Hearing Sciences (CSLHS) in Karachi, Pakistan, in 2007 is a significant step in addressing the vast demand for speech-language therapists and audiologists in the country. With a population of over 250 million and an estimated 22 million individuals suffering from communication, swallowing, and/or hearing disorders, the shortage of qualified professionals in this field is evident.

CSLHS plays a crucial role in bridging this gap by offering a comprehensive curriculum that prepares students to become skilled and knowledgeable professionals in speech-language pathology and audiology. The college provides undergraduate programme in audiology and speech language therapy (BS- ASLT); postgraduate programme in speech and language pathology (MS-SLP), along with a diploma namely the Diploma of Childhood Development Programme (DCDP), Diploma in Multi-Rehabilitation of Children with Special Needs (MRSN), Diploma in Learning Disability (DLD).

The curriculum at CSLHS covers a wide range of subjects related to speech-language pathology and audiology, including linguistics, anatomy, and physiology of speech and hearing mechanisms, assessment and intervention techniques, auditory rehabilitation, neurology, and research methodology. By providing theoretical knowledge, practical training, and clinical experience, the college equips students with the necessary skills to assess, diagnose, and treat various communication disorders.

Practical training opportunities in the form of clinical practicum experiences are also offered, allowing students to gain hands-on experience by working with clients in on-campus clinics or externship placements in various healthcare settings. This exposure helps students apply their knowledge and develop their clinical skills under the supervision of experienced professionals.

The faculty at CSLHS consists of experienced professionals; including speech-language pathologists, audiologists, psychologists, and researchers, who are dedicated to providing quality education and mentorship to students. Their engagement in research activities contributes to advancements in the field and enhances the quality of education provided to the students.

Upon graduation, students from CSLHS have various career options, including working in hospitals, clinics, schools, research institutions, private practice, or academic settings. They can provide assessment, diagnosis, and intervention services to individuals with communication and hearing disorders, assist individuals with augmentative and alternative communication (AAC) needs, conduct research, or contribute to policy development in the field.

Overall, the establishment of the College of Speech Language and Hearing Sciences in Pakistan represents a significant milestone in addressing the shortage of speech-language therapists and audiologists and is instrumental in improving the quality of life for individuals with communication and hearing disorders in the country.



BS AUDIOLOGY & SPEECH LANGUAGE THERAPY

INTRODUCTION

The Bachelor of Science (BS) programme in Audiology and Speech-Language Therapy is an undergraduate programme that aims to equip students with a solid foundation in audiology and speech-language pathology. This comprehensive programme integrates coursework in communication sciences, human anatomy and physiology, linguistics, psychology, and other relevant disciplines. Its primary goal is to prepare students for a profession focused on diagnosing and providing treatment for individuals with communication and hearing disorders.

Overview of the programme and its key components: The Audiology and Speech-Language Therapy Bachelor of Science (BS) programme emphasizes the assessment, diagnosis, and treatment of individuals experiencing speech, language, and hearing disorders. Students enrolled in this programme acquire a comprehensive understanding and proficiency in evaluating and managing a wide range of communication disorders. These disorders include speech disorders, language delays, language disorders, dysfluency, voice disorders, feeding difficulties, adult neurogenic disorders, as well as hearing impairments. Through coursework and practical training, students develop the necessary knowledge and skills to address the diverse needs of individuals with these communication challenges.

Core Curriculum: The curriculum typically includes a combination of core coursework, specialized courses, and clinical practicum experiences. Core courses cover subjects such as normal language development, anatomy and physiology of the speech and hearing mechanisms, phonetics, audiology, speech and language assessment, therapeutic techniques, and research methods.

Clinical Practicum: The programme places a strong emphasis on practical, hands-on learning through clinical experiences. Students are provided with valuable opportunities to work directly with individuals who have communication disorders, all under the guidance and supervision of experienced professionals. These clinical practicum experiences are conducted in diverse settings such as university clinics, hospitals, rehabilitation centers, and community-based facilities. By participating in these practical training opportunities, students gain essential skills and invaluable exposure to different populations and real-world contexts.

Professional Development: In addition to the core curriculum, the programme places importance on fostering professional development among students. This includes instilling ethical standards, promoting cultural sensitivity and awareness, and enhancing effective communication skills with clients, families, and other professionals. Students are educated on the significance of audiologists and speech-language pathologists as vital members of multidisciplinary teams and the value of ongoing education and professional growth in the field. While a Bachelor of Science (BS) degree in Audiology and Speech-Language Therapy provides a strong foundation, graduates may be required to pursue further education, such as a master's degree, and obtain licensure or certification to practice as professionals in audiology or speech-language pathology.

Overall, a BS in Audiology and Speech-Language Therapy programme provides a solid academic foundation and practical experience for individuals interested in helping individuals with communication and hearing disorders. It serves as a stepping stone for further education and professional development in the fields of audiology and speech-language pathology.

CAREER PROSPECTS OF PROGRAMME

A BS programme in Audiology and Speech-Language Therapy can provide graduates with a range of career prospects in the field of communication sciences and disorders. The followings are some potential career paths and job opportunities for individuals with a BS degree in Audiology and Speech-Language Therapy:

Speech-Language Pathology Assistant: Graduates can work as speech-language pathology assistants under the supervision of licensed speech-language pathologists. They assist in conducting assessments, implementing therapy plans, and providing support to individuals with communication disorders.

Audiology Assistant: Graduates can work as audiology assistants, assisting audiologists in conducting hearing assessments, fitting and maintaining hearing aids, and providing support to individuals with hearing impairments.

Rehabilitation Centers: Graduates can find employment in rehabilitation centers, where they work with individuals who have communication disorders resulting from stroke, traumatic brain injury, or other neurological conditions. They may assist in speech and language therapy sessions or provide support in augmentative and alternative communication (AAC) techniques.

Schools and Education Settings: Graduates may work in schools and educational institutions, providing support to students with communication disorders. They may assist in the implementation of Individualized Education Programmes (IEPs) and collaborate with teachers and parents to support student's communication needs.

Early Intervention Programmes: Graduates can work in early intervention programmes that support infants and young children with communication delays or disorders. They may assist in conducting assessments, implementing

therapy plans, and providing family-centered support.

Research and Academic Institutions: Graduates may pursue research positions or work in academic institutions, assisting in research projects related to communication sciences and disorders or contributing to teaching and training future professionals in the field.

Non-profit Organizations: Graduates can work in non-profit organizations that focus on supporting individuals with communication disorders and their families. They may be involved in community outreach programmes, advocacy efforts, and providing resources and support to individuals and families affected by communication disorders.

Individuals interested in pursuing a career in audiology and speech-language therapy should consider gaining practical experience through internships, volunteering, or observation opportunities, as well as pursuing advanced education and certifications to enhance their career prospects and professional growth in the field.

ELIGIBILITY CRITERIA

Educational Qualifications:

- Applicants should have completed a Higher Secondary School Certificate (HSSC) or equivalent 12th Grade Qualification and have obtained a minimum of 55% marks in any discipline.
- Candidates who are waiting for their HSSC or equivalent 12th Grade results are also eligible to apply on a provisional basis.

Prerequisites:

- Applicants should have studied Sciences with Biology in Secondary School Certificate (SSC) or Biology in equivalent 10th Grade.
- Applicants having non-medical background should complete "Biology" as a foundation course in zero semester.

Entrance Test:

- Applicants are required to take entrance tests, conducted by the Ziauddin University

Examination Department.

- The entrance test assesses the applicant's cognitive abilities, problem-solving skills, logical reasoning, and language proficiency and also knowledge in areas like biology, physics, chemistry, mathematics, and English language or communication sciences.

English Language Proficiency:

- Applicants are required to demonstrate proficiency in written and spoken English language.
- BS in Audiology and Speech-Language Therapy programme is conducted in English. English language proficiency is crucial in these fields as effective communication with clients and colleagues is essential.

Personal Statement or Essay:

- Applicants are required to submit a personal statement or essay detailing their interest in audiology and speech-language therapy, relevant experiences, and career goals. This provides an opportunity for applicants to showcase their passion and commitment to the field.

Interviews:

- The interview may be conducted by faculty members or professionals in the fields of audiology and speech-language therapy. It allows the institute to assess the applicant's communication skills, interpersonal abilities, commitment toward a helping profession, and suitability for the programme.

FEE STRUCTURE

Application Processing Fees	Rs. 5,000/-
Admission Fees	Rs. 50,000/-
Tuition Fees	Rs. 175,000/- (per semester)
Examination Fees	Rs. 11,000/- (per semester)
Library Fees	Rs. 9,000/-
Student Activity	Rs 6,500/-

Note:

- Any additional taxes imposed by the government will be the responsibility of the students/parents/guardians.
- The University reserves the right to increase the fees if required according to the recommendation of the Governing Body.
- Advance fee to be paid semester wise.
- All dues need to be cleared within two weeks of the commencement of the semester.
- A 2% surcharge per month will be levied on outstanding fees after the due date.

DURATION OF PROGRAMME

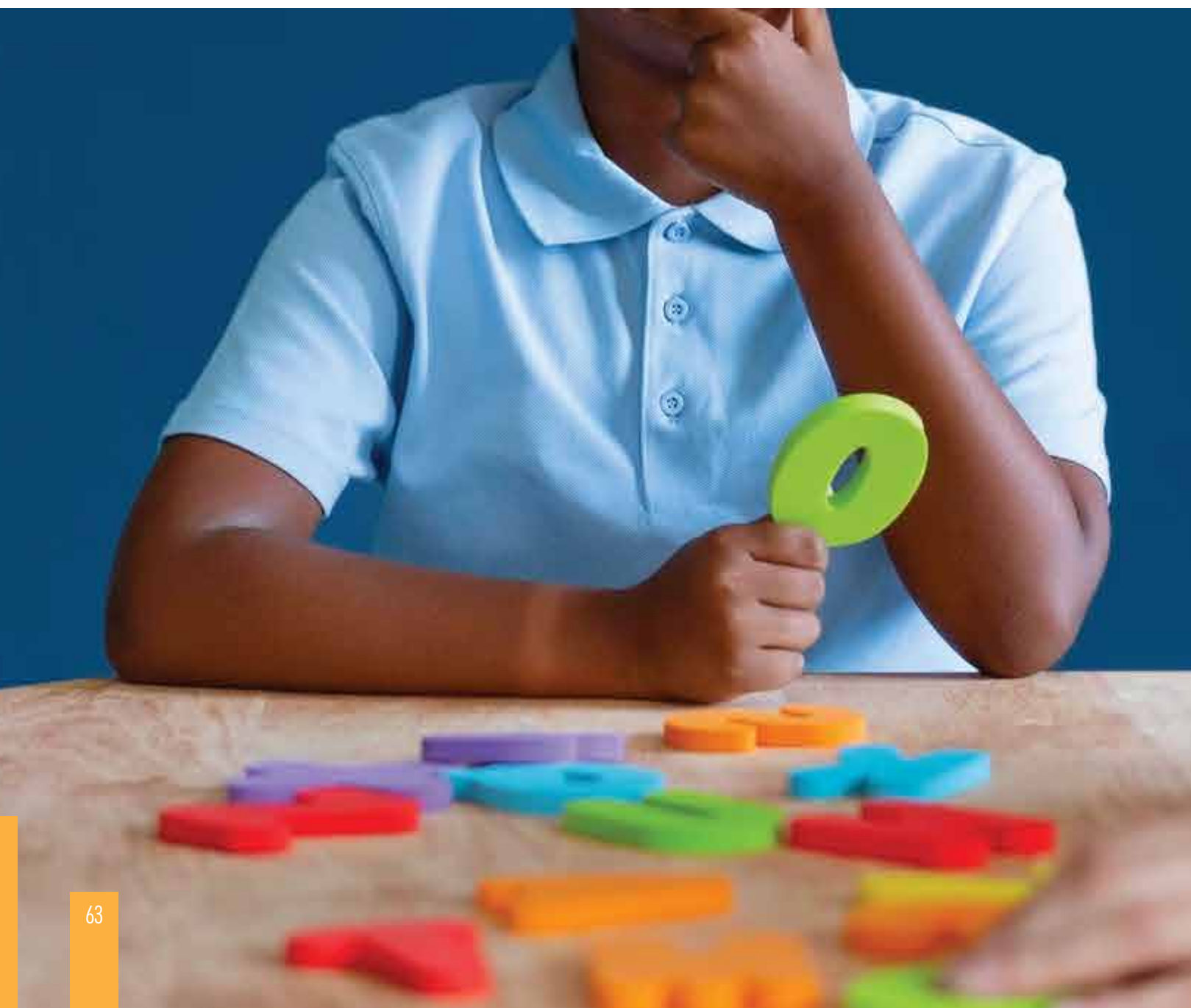
The minimum duration of a BS programme in Audiology and Speech-Language Therapy is 4 years.

During this time, students will typically complete a combination of core coursework, specialized courses in audiology and speech-language therapy, clinical practicum experiences, and possibly an internship or capstone project. The program is designed to provide students with a comprehensive understanding of the field and prepare them for entry-level positions or further education in audiology and speech-language pathology.



ACADEMIC CALENDAR

Event	Start	End	Duration
Semester Start	Thursday, January 18, 2024		
Pre-Midterm Classes	Thursday, January 18, 2024	Friday, March 15, 2024	8 weeks
Mid Semester Exams	Monday, March 18, 2024	Friday, March 22, 2024	1 week
Post Midterm Classes	Monday, March 25, 2024	Friday, May 17, 2024	8 weeks
Termination of Classes	Friday, May 17, 2024		
Preparation week	Monday, May 20, 2024	Friday, May 24, 2024	1 week
Semester Final Exams	Monday, May 27, 2024	Friday, June 07, 2024	2 weeks
End of Semester	Friday, June 07, 2024		



MS SPEECH LANGUAGE PATHOLOGY

INTRODUCTION

The College of Speech Language & Hearing Sciences introduced Post Graduation in Speech Language Pathology (MS-SLP) in the year 2019, following the success of the BS-SLT programme, following the success of the BS-SLT programme which was upgraded to the BS-ASLT in 2015.

OBJECTIVES

The graduates of the MS SLP programme will teach and train undergraduates in the field of speech-language pathology and conduct awareness and advocacy for the profession in Pakistan, upholding its professional ethics and dignity. They shall actively engage in research and development for construction of assessment and therapeutic tools that are culturally and linguistically appropriate for the Pakistani population.

- The students will show a complete understanding of biological and medical sciences, social and behavioural sciences as well as statistics and research methods.
- The students are well versed with the human communication, the feeding and swallow processes in children and adults; as well as the biological, neurological, psychological, social, linguistic and cultural bases to them.
- The student should demonstrate the ability to integrate and differentiate between the normal and abnormal human development across the lifespan; and the disorders and differences thereof.
- The students must be well versed with the etiologies of the communication and swallow disorders and their relevant anatomy/physiological disorders of voice and resonance, as well as respiration and phonation;
- Such as disorders in receptive and expressive language (phonology, morphology, syntax, semantics, pragmatics, prelinguistic communication and paralinguistic communication) in speaking, listening, reading, writing in children and adults;
- Hearing impairment and its impact on speech and language development;
- Disorders in the functions of feeding and swallowing (oral, pharyngeal, esophageal, and related functions, including oral function for feeding, orofacial myology);
- Disorders of cognition in all aspects of com-

munication (attention, memory, sequencing, problem-solving, executive functioning);
 l) Socio-communicative disorders (including challenging behaviour, ineffective social skills, and lack of communication opportunities);
 m) The selection and utilisation of augmentative and alternative communication modalities.

j) For all items from (a) - (l) above, the students must exhibit knowledge current procedures of intervention including assessment, evaluation, and treatment; as well as demonstrate knowledge of ethical procedures within. [Details for knowledge and skills in professional practice here have been adapted from the ASHA policies of evaluation and examination see below (o) to (q)].

EVALUATION

- Conduct screenings and prevention procedures (including prevention activities).
- Collect case history information and integrate information from clients/patients, family, caregivers, teachers, and relevant others, including other professionals.
- Select and administer appropriate evaluation procedures, such as behavioural observations, non-standardised and standardised tests, and instrumental procedures.
- Adapt evaluation procedures to meet client/patient needs.
- Interpret, integrate, and synthesise all information to develop diagnosis and make appropriate recommendations for intervention.
- Complete administrative and reporting functions necessary to support evaluation.
- Refer clients/patients for appropriate services.

INTERVENTION

- Develop setting-appropriate intervention plans with measurable and achievable goals that meet clients'/patients' needs. Collaborate with clients/patients and relevant others in the planning process.
- Implement intervention plans (involve clients/patients and relevant others in the intervention process).
- Select or develop and use appropriate materials and instrumentation for prevention

and intervention.

d. Measure and evaluate clients'/patients' performance and progress.

e. Modify intervention plans, strategies, materials, or instrumentation as appropriate to meet the needs of clients/patients.

f. Complete administrative and reporting functions necessary to support intervention.

g. Identify and refer clients/patients for services as appropriate.

INTERACTION AND PERSONAL QUALITIES

a. Communicate effectively, recognising the needs, values, preferred mode of communication, and cultural/linguistic background of the client/patient, family, caregivers, and relevant others.

b. Collaborate with other professionals in case management.

c. Provide counseling regarding communication and swallowing disorders to clients/patients, family, caregivers, and relevant others.

r) The student must demonstrate knowledge of research principles and evidence based clinical practice.

s) The students must demonstrate appropriate skills in oral and written or other forms of communication required by a professional in the field of speech language pathology.

THE STUDENT MUST DEMONSTRATE KNOWLEDGE OF THE FOLLOWING

Intervention, assessment and evaluation procedures with patients/clients. (adopted from ASHA).

Entry Requirement of Programme or Eligibility for admission into MS SLP.

o Candidates with a 4 year BS (Speech Language Therapy/Pathology) degree from any recognized University are eligible for admission to the course.

o CGPA of 2.5 in the Undergraduate BS SLT or BS ASLT degree

o GAT (General). In case GAT (General) is not done at the time of entry into this programme, then candidates MUST PASS GAT (General) BEFORE completion of second semester as recommended by HEC.

o There is no upper age limit for admission to the course.

SCOPE

• (Market and Social employment perspective) Candidates graduating with the MS SLP

degree shall be eligible for clinical practice in a hospital, and rehab setting as well as at mainstream and special schools, where in they shall independently screen, assess, evaluate, diagnose, and treat all disorders of speech, language, hearing, feeding and swallowing in children and adults as well as provide feedback and counselling to the caregivers, and other support personnel.

- The graduates shall successfully utilise AAC tools (Alternative – Augmentative Communication) as and when required after a complete assessment of the needs of the patient.

- The graduates shall indulge in research and development nationally and internationally towards strengthening their own knowledge and skills as well as for establishing their profession in Pakistan.

- The graduates shall develop indigenous tools of assessment and therapy that are culturally and linguistically appropriate to the Pakistani fabric and to the Indian sub-continent.

- They shall be eligible to teach and train students in a college/university setting.

- Graduates shall also teach and train educationists and special educationists for identification and classroom management of children with speech, language, hearing and feeding disorders.

- They shall teach and train parents for management of the child at home.

- The graduates shall work in a team of professionals whenever and wherever required, wherein other members of the team shall include neurologists, paediatricians, otolaryngologists, maxillofacial surgeons, dentists, orthodontists, prosthodontists, psychologists, audiologists, occupational therapists, physical therapists, special educationists, educationists, teachers' aides and parents.

DURATION OF THE PROGRAMME

- 4 Semesters/2-years (with additional 1 year for students unsuccessful in either semester)

- Note: Each semester shall extend over a period of 16-18 weeks

- The MS SLP programme shall be of not more than 48 months in duration.

DIPLOMA IN CHILDHOOD DEVELOPMENT AND PSYCHOPATHOLOGY

The CSLHS commenced a Diploma in Childhood Development and Psychopathology (DCDP) in August 2013. The programme caters towards teachers, remedial and early childhood educationists, and parents who want to enhance their knowledge in this area of early childhood development.

DCDP follows a modular curriculum, which emphasises on in-depth training and 7 modules covering human development from conception through Adolescence and Childhood Disorders are taught. In addition 16 hours of observations (practical component) is mandatory at CSLHS recommended schools. Assistance is provided for the observation placement at the schools.

This programme examines the physical, cognitive and social development with diagnostic and intervention techniques for early childhood disorders.

LEARNING AND TEACHING STRATEGIES

The following teaching/learning methods/strategies are used to promote better understanding:

- Lectures
- Case studies
- Small Group discussions
- Observation of children in mainstream and special schools shall be a mandatory component of the course.

SEMESTER SUMMARY

The programme comprises two semesters.

1st semester: August – December

2nd semester: January - May

STUDENT ASSESSMENT

Examinations:

- Quizzes- 20% of final grade
- Assignments- 10% of final grade
- Mid Term Examination- 20% of final grade
- Viva- 10% of final grade

Final Exam- 40% of final grade

ADMISSION POLICY

Intermediate/A level from all disciplines

FEE STRUCTURE

Application Fees:	Rs. 5,000/-
Tuition Fees:	Rs. 132,000/-
Examination Fee:	Rs. 18,000/-

Note: Any additional taxes imposed by the government will be the liability of the students/parents/guardian.

The University reserves the right to increase the fees if required according to the recommendation of the Governing Body.

Advance fees to be paid semester-wise. All dues need to be cleared within two weeks of commencement of the academic year. 2% surcharge per month will be levied on outstanding fees after the due date.

CAREER OPPORTUNITIES

The diploma programme is framed to endow students with the foundation knowledge needed to work with children and adolescent that are identified with development delays and disorders. The course is structured to provide students with a wide range of knowledge (both theoretical and practical) to improve screening and referral practices; thereby promoting early intervention.

After completion of the diploma, trainees can utilise their expertise in counselling and assessment of children behaviour and help them to cope with their problems and grow into successful, well-adjusted adults.

FACULTY MEMBERS

Ms. Amina Siddiqui	Principal & Associate Professor
Dr. Tahmeena Tabish Latifi	Director, Vice Principal & Asst. Professor
Mr. Shahid Ali	Assistant Professor
Ms. Samina Masood Haider	Assistant Professor (part-time)
Engr. Zafar Ahmed Wafai	Senior Lecturer & Coordinator
Mr. Ali Punjani	Senior Lecturer
Mr. Hafeez Punjani	Senior Lecturer
Ms. Fatima Yousuf	Senior Lecturer
Ms. Hoor Fatima	Senior Lecturer
Ms. Rabia Qamar	Senior Lecturer
Ms. Sonia Shah	Senior Lecturer
Ms. Taleah Tariq	Senior Lecturer
Ms. Zainab Sadiq	Senior Lecturer
Ms. Zoha Asif	Senior Lecturer
Ms. Faryal Qayyum	Senior Lecturer (part-time)
Ms. Mahnoor Hasan	Senior Lecturer (part-time)
Ms. Rabbiah Binte Sohail	Senior Lecturer (part-time)
Ms. Anusha A. Samad	Lecturer (part-time)
Ms. Ayesha Siddiq	Lecturer (part-time)
Ms. Inaara Somani	Lecturer (part-time)



LOCATION

College Campus Site:

D, 24, Block-1, Clifton, Karachi - 75600.

Clinic Campus Site:

BC-06 Ground floor, Khayaban e Bedil, Block 1, Clifton, Karachi - 75600.
College of Speech Language & Hearing Sciences, Ziauddin University

Nazimabad Speech Clinic Site:

OPD Building, Basement 1, Allama Rasheed Turabi Rd. Block B, North Nazimabad Town, Karachi -74700.
Dr. Ziauddin Hospital North Nazimabad

CONTACT INFORMATION

- College Campus Site: +92 21 35148625-26
- Clinic Campus Site: +92 21 35862937
- Email: info@zu.edu.pk
- Web: zu.edu.pk

COLLEGE OF MEDICAL TECHNOLOGY

KEY INFORMATION

ACTING PRINCIPAL

Ms. Humera Rashid

CONTACT INFORMATION

Website:

<https://zcmt.zu.edu.pk/>

Telephone:

+92-2136648237-9 Ext: 5406, 6389

Fax:

+92-2136640670

Email:

admission@zu.edu.pk

Locate Us:

Oncology Building near Cafeteria,
Ziauddin Hospital, Block B,
North Nazimabad.

College of Medical Technology
E40/1, 3rd Floor, Wahid Colony near
CNG Station, North Nazimabad.



"I am Midah Marium Khan, a final year student of BS Medical Technology (Dental Hygiene and Technology). It is a tremendous honor for me to be a part of Ziauddin College of Medical Technology (ZCMT).

The learning environment of ZCMT is professional and engaging, which creates the perfect atmosphere for personal and academic growth. It is not merely a place of education; it is a transformative journey for all students who pass through its doors. From the moment we enter with unrefined and uncertain minds, we are nurtured and guided by the faculty, emerging as intellectual, diligent, and highly competitive individuals.

One of the outstanding aspects of ZCMT is the emphasis placed on practical learning opportunities. As a medical technology student, I have been privileged to apply and refine my skills in real clinical settings, transcending the confines of the syllabus. This hands-on experience has significantly enhanced the proficiency of our technologists, ensuring that we are prepared to excel in the field. The well-designed and articulated curriculum fulfills the qualification requirements of the international and professional certification/ Licensure.

I extend my deepest gratitude to the exceptional faculty members who have played an instrumental role in shaping my educational journey. Their unwavering commitment and support have been a constant source of inspiration.

As a proud student, I wholeheartedly endorse this college as a top choice for my educational journey. To incoming students, I urge you to embrace this extraordinary opportunity with open arms and let this transformative experience empower you to realize your full potential".

MIDAH MARIUM KHAN
Medical

COLLEGE OF MEDICAL TECHNOLOGY

Ziauddin University laid the foundation of the College of Medical Technology in 1998; it was then named the College of Allied Health Sciences which initially offered Bachelor's degree in Medical Technology (B.Sc. in MT). Since then, it has successfully enrolled sixteen batches. Recognizing the growing challenges, the college was renamed Ziauddin College of Medical Technology in 2016; Ziauddin University initiated the BS programme in Medical Technology in March 2011, to pace with modern techniques and knowledge. Ziauddin will be commencing an MS programme in Medical Technology this academic year.

ABOUT MEDICAL TECHNOLOGY

Technology plays an eminent role in today's world. It is a need in almost every field. Similarly, the Medical Technology Industry has a significant role in the Healthcare sector. It functions on modern electronic medical devices that simplify the diagnosis, analysis and treatment of diseases. Physicians, surgeons and pathologists rely on the skills and expertise of the medical technologists and therefore they have a responsibility of diagnosing, analyzing, and reporting findings to the treating doctors.

VISION

ZCMT aspires to become center of excellence for interdisciplinary education, research, and continuous professional development which contributes to healthcare and community services.

MISSION

College of Medical Technology endeavors to impart holistic theoretical education, hands on clinical skills, and supervised clinical practice for crafting future technologists, scientists, researchers, educators and leaders. These international standard graduates will strengthen interprofessional collaboration in healthcare and community.

SCOPE

The Bachelor of Studies in Medical Technology Programme provides students with a scientific and conceptual understanding of specialized analyses. It aims to train, skill and edify medical technologists by accrediting their clinical skills and providing in-depth training on clinical procedures, practices and management.

PROGRAMMES OFFERED

- BS Medical Technology (4 years)

BS MEDICAL TECHNOLOGY 4 YEAR PROGRAMME

MISSION

The mission of BS Medical Technology commits to instill technical competencies, orientation to research and readiness for long life learning by

utilizing integrated curriculum, andragogy and standardized Assessments to ever-evolving health care systems.

OVERVIEW OF SPECIALISED FIELDS IN MEDICAL TECHNOLOGY:

CARDIOVASCULAR SCIENCES

Cardiovascular science is a study of the heart and its function, blood vessels in human beings, cardiac disorders and diseases associated with cardiovascular systems. The students are taught and trained in diagnostics, treatment and preventive techniques used in Cardiovascular Sciences and its application in clinical and healthcare settings.

Cardiovascular Professionals or Technologists work with cardiac physicians to assist in providing treatment, monitoring and diagnosing patients with Cardiac problems. They can also enrich students with knowledge through their teaching and producing research. Furthermore, cardiovascular technologists pursue their careers as in diagnostic and interventional cardiac catheterization labs in acute care hospitals, electrophysiology and echocardiography.

Cardiovascular Technology is a challenging and growing profession. The BS MT in Cardiovascular sciences programme trains students with advance didactic basic and specialized courses and clinical trainings mandatory to marvel at their major studies.

Courses Taught

1st Year

1. Functional English
2. Fundamental Chemistry
3. Islamiyat / Moral Ethics
4. Mathematics
5. Human Biology
6. Introduction to Health Education
7. Basic Health Sciences
8. Academic Reading and
9. Human Behavior
10. Physics
11. Introduction to Statistics
12. General Pharmacology
13. Biochemistry
14. General Microbiology
15. Radiation Protection

2nd Year

1. Technical and Professional Writing
2. Pak Studies
3. Introduction to Law
4. Computer Literacy
5. Professional Ethics and Behavior
6. Basic Hematology
7. Cardiovascular Anatomy
8. Cardiovascular Physiology
9. Cardiovascular Pathophysiology
10. Cardiovascular Pharmacology
11. Body Fluid Management
12. Principles of Patient Care
13. Electrocardiography (ECG)
14. Exercise Tolerance Test (ETT)

3rd Year

1. Basic Immunology
2. Procedures for in Patients
3. Cardiovascular Emergencies
4. Principle of Radiation
5. Hemodynamic Evaluation
6. Mathematics in Cardiovascular Technology
7. Stress Cardiology
8. Cardiac Pathophysiology in Paediatric
9. Principles of Critical Care
10. Invasive Cardiac Methodologies
11. Ultrasound Techniques
12. Doppler Ultrasound Techniques
13. Vascular System and Diseases

4th Year

1. Quality and Risk Management
2. Echocardiography in Cardiac Myopathies
3. Invasive Imaging
4. Echocardiography - I
5. Vascular Ultrasound - I
6. Cardiac Catheterization Laboratory - I
7. Cardiac Interventional Procedures - I
8. Biostatistics
9. Cardiac Care Unit Management
10. Paediatric Echocardiography
11. Echocardiography - II
12. Vascular Ultrasound - II
13. Cardiac Catheterization Laboratory-II
14. Cardiac Interventional Procedures-II

NOTE: The scheme of studies can be changed as per requirement and advancement in the clinical field.



Clinical Training

The study of cardiovascular Sciences centers on the working of heart, its diagnosis and treatment therefore the CVS technologists are placed at Ziauddin hospital for their clinical practicum, where they utilise their knowledge of cardiovascular principles and functions in the operation of CVS equipments, such as ECG, exercise stress tests and Cardiac Device Follow up, Ambulatory B.P. monitoring and ECG Event/Loop Monitoring. The in-house training enables the trainee to apprehend the operation of machineries used while performing any test. These trainings start after every semester examination and the cycle continues till the final year of the undergraduate programme.

CLINICAL LABORATORY SCIENCES

Clinical Laboratory Science Professionals provide laboratory services required for the

diagnosis and treatment of the disease. These Technologists or Scientists, by performing a number of tests, discover the diseases and lend a hand to the physicians to give quick treatment to the patients. Such Critical procedures require strong analytical skills and the ability to work under pressure. The Programme and courses offered at Clinical Laboratory Sciences put great emphasis on students acquiring these skills by a combination of didactic sessions, group discussion, supervised training, competency assessments and clinical practicum in order to make student adroit at performing tests, analyses and interpretations. Clinical Laboratory Scientists can set off their careers in medical and healthcare professions. Placements are also offered at scientific equipment companies, chemical and pharmaceutical companies. They can also contribute in the educational sector as a faculty member or as a researcher.

Courses Taught**1st Year**

1. Functional English
2. Fundamental Chemistry
3. Islamiyat / Moral Ethics
4. Mathematics
5. Human Biology
6. Introduction to Health Education
7. Basic Health Sciences
8. Academic Reading and Writing
9. Human Behavior
10. Physics
11. Introduction to Statistics
12. General Pharmacology
13. Biochemistry
14. General Microbiology
15. Basic Laboratory Techniques

2nd Year

1. Technical and Professional Writing
2. Pak Studies
3. Introduction to Law
4. Computer Literacy
5. Professional Ethics and Behavior
6. Basic Hematology
7. Principles of Clinical Laboratory Instruments
8. Parasitology
9. Phlebotomy
10. Quality Assurance in Clinical Laboratory
11. Blood Banking
12. Hematology
13. Chemical Pathology
14. Clinical Microbiology

Clinical Training

The in-house training of CLS technologists encompasses observation and analysis of both manual and automated testing which involves immunoassays, Electrophoresis, Blood and urine culture, Blood Grouping and Cross matching, and manual and automated cell counting. The in-house training enables the trainee to master the operation of tools and equipment used while performing any test. These trainings start after every semester examination and the cycle continues till the final.

DENTAL HYGIENE AND TECHNOLOGY

Dental Hygiene and Technology is a multimodal course in the field of dental laboratory where dental hygiene is complemented with dental technology. It is the study of dental diseases, preventive therapy and patient counseling. The course is coupled with the technical sides of dentistry where technologist makes prosthesis, orthodontics and maxillofacial appliances. Dental technologists work in dental laboratories and create fabricated dental materials, using their artistic skills in fabricating the form and color of an individual's teeth. Besides dental laboratory, technologists are also welcome in academics to hold a faculty position.

3rd Year

1. Body Fluid Analysis
2. Introduction to Clinical Hematology and Laboratory Techniques
3. Introduction to Immunohematology
4. Techniques in Chemical Pathology
5. Basic Histotechnology
6. Basic Immunology
7. Clinical Virology
8. Advance Immunohematology
9. Molecular Biology
10. Basic Coagulation
11. Clinical Immunology & Serology
12. Advance Histotechnology
13. Mathematics for Clinical Laboratory
14. Clinical Mycology

4th Year

1. Clinical Laboratory Management
2. Clinical Laboratory Accreditation
3. Biostatistics
4. Quality Control in Clinical Laboratory (Advanced)
5. Hematology/Blood Banking/Chemical Pathology/Microbiology

NOTE: The scheme of studies can be changed as per requirement and advancement in the clinical field.



The College of Medical Technology started this programme in the year 2017 with a comprehensive course plan and in-house training of the technologists preparing them to meet the challenges of the developments in the field.

Courses Taught

1st Year

1. Functional English
2. Fundamental Chemistry
3. Islamiat / Moral Ethics
4. Mathematics
5. Human Biology
6. Introduction to Health Education
7. Basic Health Sciences
8. Academic Reading and Writing
9. Human Behavior
10. Physics
11. Introduction to Statistics
12. General Pharmacology
13. Biochemistry
14. General Microbiology
15. Basics of Dental Terminology

2nd Year

1. Technical and Professional Writing
2. Pak Studies
3. Introduction to Law
4. Computer Literacy
5. Professional Ethics and Behavior
6. Tooth Morphology
7. Dental Anatomy and Histology
8. Dental Hygiene Pre-clinical Sciences
9. Concepts and Techniques of Removal Partial Denture
10. Dental Ethics and Practice Management
11. Oral Radiology
12. Preventive oral Concepts
13. Sterilization and Disinfection
14. Fundamentals of Dental Hygiene

Clinical Training

The teaching and learning scheme at Ziauddin University provides its learner with in-house training where they can acquire the skills necessary for Dental technologists. Among these skills are community disease prevention, tooth morphology, dental materials, and oral pathology. During clinical sessions, students will have hands-on technical experience on how to perform root planting, apply fluoride therapy, and develop x-rays at Ziauddin hospital under the supervision of dental physician and senior technologists. These trainings start after every semester examination at the Dental Department of Ziauddin University Clifton and the cycle continues till the final year of the undergraduate programme.

3rd Year

1. Oral Radiography and Laboratory
2. Adult Restorative Dentistry and Clinical Practice
3. Fundamentals, Principles and Allied Concepts in Surgery
4. Orthodontic Clinics for Dental Hygienists
5. Concepts and Techniques of Complete Denture
6. Dental Hygiene Clinical Sciences
7. Local Anaesthesia and Pain Control
8. Techniques of Removable Orthodontic Appliances
9. Fundamentals, Principles and Techniques in Oral Surgery
10. Concepts and Techniques of Fixed Partial Denture
11. Oral Medicine

4th Year

1. Quality Assurance in Dentistry
2. Dental Health Management
3. Concepts and Techniques of Oral Maxillofacial Prosthesis
4. Oral Pathology
5. Techniques of Fixed Orthodontic Appliances
6. Biostatistics
7. Foundations of nutritional sciences
8. Geriatric Dentistry
9. Concepts and Techniques of Implants
10. Fundamentals, Principles and Allied Concepts in Implant

NOTE: Scheme of studies can be changed as per requirement and advancement in the clinical field.



RADIOLOGICAL IMAGING

Radiological imaging is the study of techniques and procedure of medical images used for diagnosis of various diseases. Radiologic technologists are specialized in the use of medical imaging such as X-Rays, Magnetic Resonance Imaging (MRI), Computed tomography (CT) scans, ultra - sound, Sonography and fluoroscopy. They have an acute understanding of anatomy, positioning, radiation protection and radiographic exposure.

Radiologic technologists are responsible for producing quality diagnostic images. They act as an expert to the physician by providing them proper examination of the disease, interpreting the resulting medical images. The doors of radiological technologists are opened at various technical departments in hospitals followed by physicians, medical laboratories outpatient imaging centers.

Radiological imaging is a demanding profession therefore; the college of Medical Technology has designed a programme with intensive coursework along with the technical handling throughout the 04 year of studies.

Courses Taught

1st Year

1. Functional English
2. Fundamental Chemistry
3. Islamiat / Moral Ethics
4. Mathematics
5. Human Biology
6. Introduction to Health Education
7. Basic Health Sciences
8. Academic Reading and Writing
9. Human Behavior
10. Physics
11. Introduction to Statistics
12. General Pharmacology
13. Biochemistry
14. General Microbiology
15. Radiation Protection

2nd Year

1. Technical and Professional Writing
2. Pak Studies
3. Introduction to Law
4. Computer Literacy
5. Professional Ethics and Behavior
6. Patient Care in Radiological Sciences
7. Introduction to Radiation Physics and Instrumentation

Clinical Training

The programme offers training to the students at Ziauddin hospital under the guidance of supervisors and experienced technologists who coach students to perform X-rays, MRI, CT scans, mammography, fluoroscopy, ultrasound, Sonography and fluoroscopy. These trainings help students to become experts their relevant fields before entering into professional life. These trainings start after every semester examination and the cycle continues till the final year of the undergraduate programme

8. Radiobiology

9. Radiological Anatomy I
10. Radiological Anatomy II
11. Imaging Positions
12. Introduction to Medical Imaging

3rd Year

1. Radiopharmacy
2. Radioanatomy
3. Orthopantomogram
4. Mammography Techniques
5. Quality Control of Image Equipment
6. Ultrasound Techniques
7. Doppler Ultrasound Techniques

4th Year

1. Picture Archiving and Communication System
2. Contrast Media and Medications
3. Biostatistics
4. Quality Management System (ISO & JCI)
5. Major Radiological Imaging/ Ultrasonography

NOTE: Scheme of studies can be changed as per requirement and advancement in the clinical field.



RADIATION THERAPY

Radiation Therapy a field of radiation oncology that administers the regular radiation treatment prescribed by a physician.

The scope of practices of radiation therapists include delivering radiation therapy to the patients of cancer and operating and examining linear accelerators that treat patients with radiation.

In BS MT Radiation therapy, students are taught the fundamentals of human anatomy, physiology, pathology, radiobiology, radiation safety and techniques, radiation oncology in addition to management electives to enable students to become competent and skilled radiation therapists.

Courses Taught

1st Year

1. Functional English
2. Fundamental Chemistry
3. Islamiat / Moral Ethics
4. Mathematics
5. Human Biology
6. Introduction to Health Education
7. Basic Health Sciences
8. Academic Reading and Writing
9. Human Behavior
10. Physics
11. Introduction to Statistics
12. General Pharmacology
13. Biochemistry
14. General Microbiology
15. Radiation Protection

2nd Year

1. Technical and Professional Writing
2. Pak Studies
3. Introduction to Law
4. Computer Literacy
5. Professional Ethics and Behavior
6. Patient Care in Radiological Sciences
7. Introduction to Radiation Physics and Instrumentation
8. Radiobiology
9. Radiological Anatomy I

Clinical Training

The BS RT programme offered at Ziauddin University gives students practical skills by providing in-house training after every semester to build a strong foundation of the course. During their clinical practicum, students are taught to assist oncology patients by delivering chemotherapy to them. Moreover, the training also involves working on radiation equipments and producing a diagnosis. These trainings start after every semester examination and the cycle continues till the final year of the undergraduate programme.

10. Radiological Anatomy II
11. Imaging Positions
12. Introduction to Medical Imaging

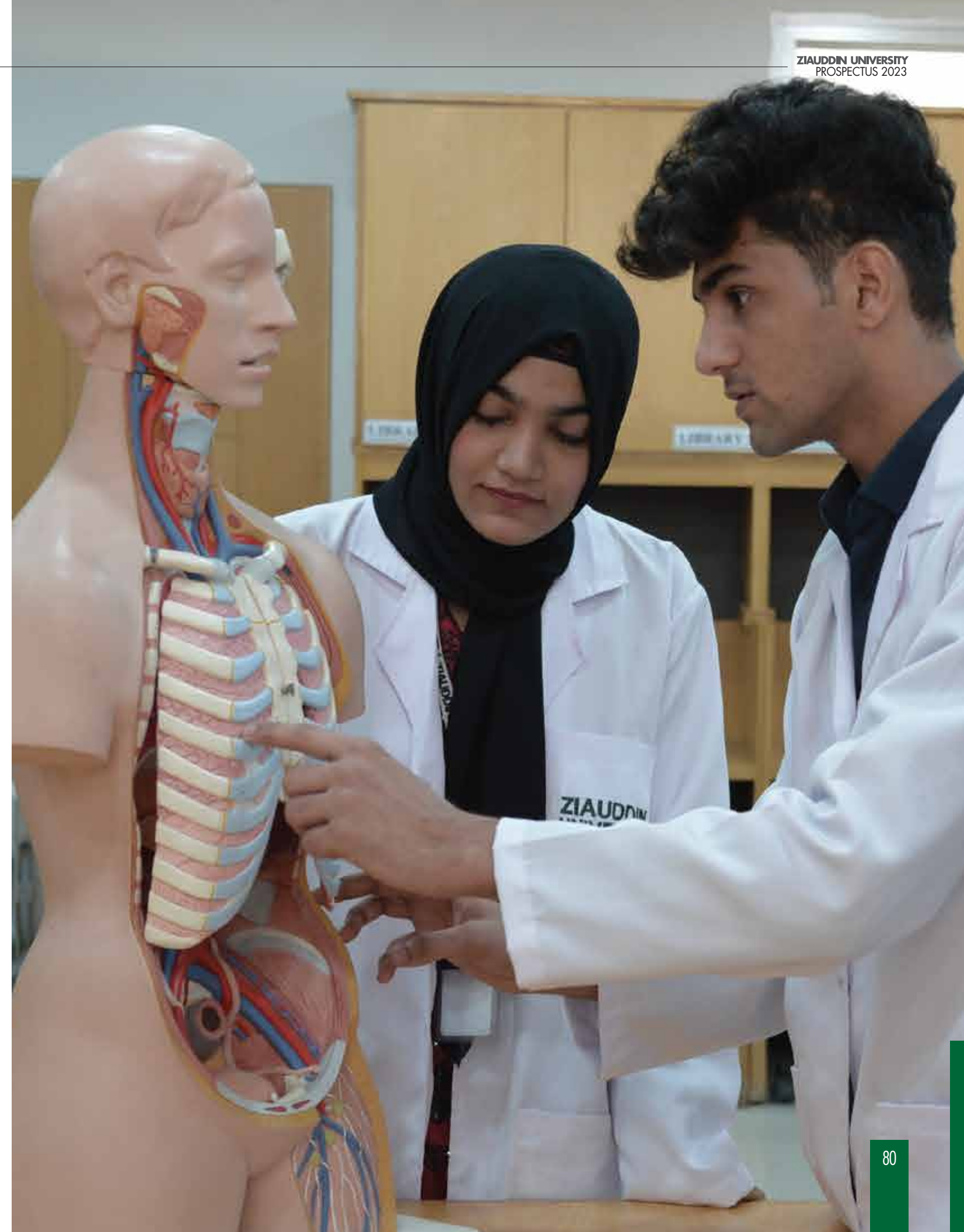
3rd Year

1. Radiopharmacy
2. Clinical oncology (Basics)
3. Nursing Oncology
4. Techniques and Application of Radiation Therapy
5. Radiation Oncology Techniques
6. Clinical Oncology (Advanced)
7. Radiation Dosimetry
8. Palliative Care in Radiation Therapy

4th Year

1. Quality Management in Radiation Therapy
2. Modern Radiation Therapy
3. Basic Radiation Therapy Modalities
4. Treatment Planning System (Basics)
5. Biostatistics
6. Quality Management System (ISO & JCI)
7. Medical Conditions in Radiation Therapy
8. Advanced Radiation Therapy Modalities
9. Treatment Planning System (Advanced)

NOTE: Scheme of studies can be changed as per requirement and advancement in the clinical field.



CARDIAC PERFUSION

Cardiac perfusion is the study of extracorporeal medical procedures during open-heart surgeries and transplantation in order to support, regulate and temporally replace the patient's respiratory and circulatory system. The cardiac perfusionists are core members of the open-heart surgery team. Their role is to prepare and operate heart-lung machine and other complex machinery during cardiovascular surgeries in highly stressed situations. To perform these tasks, perfusionists are taught comprehensive courses to develop an in-depth knowledge of respiratory and circulatory systems. Cardiac perfusionists use their expertise during cardiovascular surgeries in assisting surgeons and physicians and can also work as a teacher and researcher in research institutes. Placements of perfusionists are at hospitals, and at times they are hired by individual surgeons. Moreover, perfusionists are appointed by industries that manufacture supplies and equipment related to perfusion.

Keeping in view the local and global needs, the College of Medical Technology initiated the B.S. Medical Technology in Cardiac Perfusion – a well-balanced comprehensive programme in which students are exposed to extensive learning and practice, clinical skills, academic activities and research studies. After the completion of the programme, students can utilize their skills in health-care as Cardiac Perfusionists.

Courses Taught

1st Year

1. Functional English
2. Fundamental Chemistry
3. Islamiyat / Moral Ethics
4. Mathematics
5. Human Biology
6. Introduction to Health Education
7. Basic Health Sciences
8. Academic Reading and Writing
9. Human Behavior
10. Physics
11. Introduction to Statistics
12. General Pharmacology
13. Biochemistry
14. General Microbiology
15. Mathematics in Perfusion Technology

2nd Year

1. Technical and Professional Writing
2. Pak Studies
3. Introduction to Law
4. Computer Literacy
5. Professional Ethics and Behavior
6. Cardiovascular Anatomy
7. Cardiovascular Physiology
8. Introduction to Cardiopulmonary Bypass Circuit-I
9. Cardiovascular Pathophysiology
10. Cardiovascular Pharmacology
11. Body Fluid Management
12. Perfusion Hematology and Blood Management
13. Introduction to Cardiopulmonary Bypass

Circuit-II

14. Clinical Applications of Perfusion Technology

3rd Year

1. Basic Immunology
2. Procedures for in Patients
3. Cardiovascular Emergencies
4. Monitoring in Cardiopulmonary Bypass-I
5. Advances in Cardiopulmonary Bypass
6. Cardiac Pathophysiology in Paediatric
7. Devices in Perfusion Technology
8. Monitoring in Cardiopulmonary Bypass-II
9. Diagnostic Techniques in Perfusion Technology

4th Year

1. Quality and Risk Management
2. Operation Theatre Organization and Management
3. Non-Cardiac Surgical Applications of Cardiopulmonary Bypass
4. Pre-Operative Paediatric Perfusion
5. Extracorporeal Membrane Oxygenation
6. Biostatistics
7. Cardiac Care Unit Management
8. Standard and Guidelines for Mechanical Circulatory Support
9. Intra Operative Paediatric Perfusion
10. Anaesthesia Management for Cardiac Surgery

NOTE: Scheme of studies can be changed as per requirement and advancement in the clinical field.

Clinical Training

Ziauddin University offers cardiac perfusionists to practice their skills at Ziauddin Hospital under the supervision of Laboratory heads, physicians and instructors during their undergraduate studies. The degree requires completion of hands-on clinical training, during which candidates must perform a certain number and variety of clinical perfusion procedures. This experiential learning is critical to the preparation of perfusionists who must be able to respond to a wide variety of situations that may occur in the operating room. The in-house training enables the trainee to apprehend the operation of machinery used during the surgeries. This training starts after every semesters examination and the cycle continue till the final year of the undergraduate programme.



NUCLEAR MEDICINE

Nuclear Medicine is the study of nuclear properties of stable nuclides that enables the technologist to diagnose, determine the complexity of a disease and to suggest treatments to a variety of diseases. The technologists primarily work on the isotopes present in human body.

Graduates of Nuclear Medicine are called Nuclear Medicine Technologists who study basic science subjects required for patient education and electives including radioisotopes and radiological imaging, and to work directly with patients during imaging procedures.

Nuclear Medicine Technologists work in hospital and laboratories in the diagnosis of various diseases such as cancers, heart diseases, gastrointestinal, endocrine, neurological disorders and other abnormalities within the body. Furthermore, they perform bone scanning, PET and Nuclear cardiac stress tests. They can also contribute in the field of teaching and research.

Courses Taught

1st Year

1. Functional English
2. Fundamental Chemistry
3. Islamiyat / Moral Ethics
4. Mathematics
5. Human Biology
6. Introduction to Health Education
7. Basic Health Sciences
8. Academic Reading and Writing
9. Human Behavior
10. Physics
11. Introduction to Statistics
12. General Pharmacology
13. Biochemistry
14. General Microbiology
15. Radiation Protection

2nd Year

1. Technical and Professional Writing
2. Pak Studies
3. Introduction to Law
4. Computer Literacy
5. Professional Ethics and Behavior
6. Patient Care in Radiological Sciences
7. Basics of Nuclear Medicine
8. Introduction to Instrumentation
9. Radiobiology
10. Radiological Anatomy I
11. Radiological Anatomy II

Clinical Training

The curriculum of B.S.NS includes supervised education which offers a sufficient and well-balanced variety of nuclear medicine procedures, examinations, and equipment. Various rotations include supervised clinical education such as general nuclear medicine imaging, cardiology imaging, SPECT/CT, PET/CT, radiation-sensitive cameras, and dosage meters, radiopharmacy and radiation safety. These trainings are provided at the Dr. Ziauddin hospital and aim to strengthen students' theoretical and practical understanding of Nuclear medicine sciences. This training start after the semester examination and the cycle continues till the final year of the undergraduate programme.

12. Nuclear Medicine Patient Synergy
13. Image Processing

3rd Year

1. Radiopharmacy
2. Basic Radionuclides Therapy
3. Advance Radionuclide Therapy - I
4. Introduction to Nuclear Cardiology
5. Standard Drug Intervention
6. Introduction to Nuclear Oncology
7. Advanced Instrumentation
8. Basic Nuclear Cardiology

4th Year

1. Radionuclide Waste Management
2. Patient Release Method
3. Patient Release Method
4. Nuclear Oncology Techniques
5. Emerging Technologies
6. Advanced Nuclear Cardiology
7. Biostatistics
8. Quality management systems (ISO & JCI)
9. Positron Emission Tomography (PET) Techniques
10. Bone Mineral Densitometry
11. Nuclear Endocrinology Techniques

NOTE: Scheme of studies can be changed as per requirement and advancement in the clinical field.

NEUROSCIENCES

Neuroscience is a multidisciplinary study of the brain system including the brain, spinal cord and nerve cells throughout the body. It examines the complex interaction of multiple neuronal systems that underlie the emergence and rich diversity of cognitive functions, the regulations, and expressions of all forms of human behavior.

Neuroscientists also work on operating EEG and EMG in clinics or hospitals to evaluate and monitor patients. Furthermore, they can work as a faculty member in the field of education.

In the BS MT Neurosciences programme, students are educated and trained in neurosciences techniques like EEG, EMG, evoked potentials, etc. During their bachelor's studies, students are exposed to analyzing and the diagnosis of nervous system diseases in human beings in addition to extensive courses and practices in neurosciences.

Courses Taught

1st Year

1. Functional English
2. Fundamental Chemistry
3. Islamiyat / Moral Ethics
4. Mathematics
5. Human Biology
6. Introduction to Health Education
7. Basic Health Sciences
8. Academic Reading and Writing
9. Human Behavior
10. Physics
11. Introduction to Statistics
12. General Pharmacology
13. Biochemistry
14. General Microbiology
15. Biosafety

2nd Year

1. Technical and Professional Writing
2. Pak Studies
3. Introduction to Law
4. Computer Literacy
5. Professional Ethics and Behavior
6. Neuro-anatomy & Physiology of CNS
7. Basic Electronics of Neurophysiology
8. Neuroanatomy and physiology of PNS
9. Fundamentals of EEG Technology
10. Neuropathophysiology
11. Neurological Examination
12. Clinical applications of EEG

Clinical Training

Ziauddin University facilitates its neurosciences technologists by providing in-house training in the areas of neuroscience intensive care, neuro medicine and neurosurgery, EEG and EMG, where students exercise their trainings. These trainings start after every semester examination and the cycle continues till the final year of the undergraduate programme.

13. Basic Neuropharmacology

3rd Year

1. Fundamentals of EMG Technology
2. Clinical Applications of NCS and EMG
3. Upper extremity NCS technology
4. Lower extremity NCS technology
5. Lower extremity NCS technology
6. Basic neonatal and Paediatric EEG
7. Introduction to EPs (VEP)
8. Introduction to EPs (BEP)
9. Clinical Applications of EPs (VEP, BEP, SEP)
10. Introduction to EPs (SEP)
11. Advance NCS Technology

4th Year

1. Research Methodology
2. Basic principles of IOM
3. Fundamentals of Sleep Studies
4. Introduction to sleep disorders
5. Long-term EEG monitoring
6. Biostatistics
7. Advance Sleep studies
8. Clinical Applications of IOM
9. Emerging techniques
10. Completion of Research Project

NOTE: Scheme of studies can be changed as per requirement and advancement in the clinical field.

TEACHING AND LEARNING STRATEGIES

Ziauddin University, College of Medical Technology promotes a culturally inclusive, and constructive learning environment giving specific consideration to student's own psychological and sensory status and recognizing, nurturing and developing one's strength to foster the learning process and positive interaction among peers, groups and stimulates independence to meet the challenges of the real world. Subsequently, explicit and structured teaching is practiced and supported by audio and visual materials installed in each classroom. Contemporary practices such as blended learning, flipped classroom, and facilitation are provided meeting the course requirement of the programme. The brightest feature of the college of medical technology is that the Academic block and Clinical training sites are under the same roof, which reinforces learning by implementing teaching examples in real time cases. Finally, at the end of each semester, students are posted in Dr. Ziauddin Hospital to implement their knowledge and upgrade their skills.

FACILITIES

Ziauddin University, College of Medical Technology offers ample facilities to its students. The central location of the College of Medical Technology in North Nazimabad makes it convenient, easy to approach and accessible for the students primarily. The College of Medical Technology is located in a state-of-the-art building that is modernly designed, with huge lobbies, lecture halls and laboratories. The classrooms of the College are spacious, well-furnished, and equipped with multimedia facilities which enhance the teaching-learning process in effective way. It is complemented with an air-conditioned environment that helps students to endure the harsh climatic conditions of the city. There is a seminar room available primarily to organize workshops and seminars that can accommodate more than 150 learners.

Training labs are termed Skills labs which are replicas of hospital/clinical labs. Skills

laboratories are well-equipped consisting of hi-tech instruments to provide hands-on training to students before dealing with patients. Ziauddin is following the trails of modernization and since the concept of a library has changed; it has evolved into a LEARNING RESOURCE CENTER which a comprehensive is learning area awarded for the concept of libraries and plastic museums. Therefore, Ziauddin has developed the latest Learning Resource Center which is a combination of a library with a wide range of books and plastic a museum. It comprises of 4D models along with computing facility that provides access to e-books, e-journals and academic articles. In addition to this, students can also benefit from the main library located at Ziauddin Hospital, North Nazimabad for utilizing extensive learning opportunities after university hours.

The College of Medical Technology is a skill-oriented programme and therefore, has made it mandatory for all the students to do practicums as a part of their coursework. To achieve this, the College of Medical Technology as a privilege, posts students on rotations within concerned departments of Dr. Ziauddin Hospitals during the semester and after successful completion of a semester. The practical labs are located within the hospital premises which train the students to have multiple clinical case scenarios amalgamated with theoretical teaching. The facility aims at developing the student's knowledge and skills along with a direct implementation of knowledge of actual patients.

To evoke a sense of health and fitness, a recreational area consisting of a gymnasium and indoor games is being built where these facilities can be availed by the students. Within the university premises two tuck shops are located, which cater to the nutritious side of the students, and provide the students with healthy food and snacks during university hours. This makes the college environment secure and under surveillance.

First aid treatment and general medication are also available for students in any unforeseen

circumstances. Moreover, students have access to make an appointment at the hospital for a doctor's consultation.

ASSESSMENT POLICIES AND PROCEDURE

Enrolled candidates are assessed and examined for theory and skills with periodic examinations. Continuous assessment is practiced incorporating multiple summative and formative assessments to measure the extent to which students have achieved the desired outcome. It includes mid-terms, projects, portfolios, clinical practicum and competencies.

WEIGHTAGE FOR THE FINAL EXAMINATION

- Continuous assessments 60%
- Final Examination 40%

ATTENDANCE

80% Attendance in classes is mandatory

ADMISSION POLICY

BS medical technology is a four year semester based programme. Admissions are announced once a year and students with minimum 50% marks in pre medical and medical technology group or higher secondary certificates may apply. Candidates with O/A level must take equivalence. All candidates

are selected on merit basis according to the following criteria:

- S.S.C marks
- H.S.C marks
- Ziauddin University Aptitude test
- Interview marks

Clinical rotations are done at Dr. Ziauddin Hospital North Nazimabad site, KDLB site & Clifton site.

CAREER OPPORTUNITIES

Medical Laboratory scientists have a huge demand both nationally and internationally. A survey conducted, suggests that the demand of medical technologists is projected to grow 21% from 2014-2024 much faster than the average of all the occupations due to the greater need of diagnosis and of medical conditions through medical procedures.

Medical Technologist has the opportunity to join:

- Hospitals and clinical Laboratory positions
- National and multinational diagnostic companies
- Pharmaceutical firms
- Management positions
- Academic Positions
- Public Health Agencies
- NGOs

FACULTY MEMBERS

ADVISOR TO THE PRINCIPAL

DR. AYESHA IQBAL

ACTING PRINCIPAL AND ASSISTANT PROFESSOR

MS. HUMERA RASHID

ASSISTANT PROFESSOR

Ms. MEHWISH ZEESHAN

Dr. RIZMA KHAN

Dr. FARIA FATIMA

LECTURER

MS. QAMAR UN NISA

DR. ISRA KHALIL

DR. MUHAMMAD SAAD ZAFAR

HAFIZ DR. MUHAMMAD ABDUL AHAD

MS. MAHAPARA

DR. WAFI SHAKIL

INSTRUCTOR

ENGR. MUHAMMAD JAWAD SHAFIQUE

MS. AYESHA AZIZ

MS. DUA

MS. MARYAM NAFEES

MS. ANA NAEEMMS

HIBA USMAN LODHI

CLINICAL FACULTY

CLINICAL LABORATORY

DR. FAISAL IQBAL AFRIDI

FCPS, PROFESSOR

DR. MUHAMMAD ZULQURNAIN IMRAN

FCPS, ASSISTANT PROFESSOR

DR. USMAN ALI

FCPS, ASSISTANT PROFESSOR

DR. SABA RAZA

FCPS, ASSISTANT PROFESSOR

DR. NOUREEN SHAKEEL

FCPS, ASSISTANT PROFESSOR

DR. MADIHA ANDALEEB

RESIDENT, LECTURER

MS. SHABANA TAJ

M. PHIL, LECTURER

DR. HUMA TARIQ

RESIDENT, LECTURER

MR. MUHAMMAD SHOIB

GROUP GENERAL MANAGER

DR. AISHA HABIB

FCPS, LECTURER

DR. HIRA SHEIKH

RESIDENT, LECTURER

DR. FARAH ALAM

RESIDENT, LECTURER

DR. SURESH KUMAR

RESIDENT, LECTURER

CARDIOVASCULAR SCIENCES

DR. JAWED ANSARI

CONSULTANT CARDIOLOGIST, MD

DR. MUHAMMAD SHAHZAD ALI

RESIDENT CARDIOLOGY DEPARTMENT

MR. TALEEQ-UL-KARIM

MBA, LECTURER

MR. SHAHZAIB

BS, LECTURER

MS. MAHNOOR KHAN

BS, LECTURER

NEUROSCIENCES

MR. MUSTAFA KHAN

MSC LECTURER

MS. AMAIMA FATIMA

BS MT, LECTURER

MS. SULHA SAHAR

BS MT, LECTURER

MR. NAZAL PUNJANI

BS MT, LECTURER

CARDIAC PERFUSION

DR. ZEESHAN MIRZA

FCPS, CONSULTANT

MS. UZMA MAZHAR

MSC, CARDIAC PERFUSIONIST (NICVD)

MR. ZAHID TALIB

CARDIAC PERFUSIONIST (NICVD)

NUCLEAR MEDICINE

DR. SAJID SATTAR

MD, ASSOCIATE PROFESSOR

DR. ASAD JALIL

FCPS, LECTURER

MS. AITDAL MOIN

BSC, TECHNOLOGIST

RADIOLOGICAL IMAGING

DR. KAMRAN HAMID

FCPS, ASSOCIATE PROFESSOR

DR. ABDUR REHMAN

FCPS, LECTURER

DR. SAADIYA HISSAMUDDIN

MBBS, LECTURER

DR. SHAMAMA TUL AMBER

RESIDENT, LECTURER

DR. MASSOD UR REHMAN KASHIF

RESIDENT, LECTURER

MR. MOHAMMAD MAAZ ALI

MBA, LECTURER

DR. ALI MUHAMMAD

RESIDENT, LECTURER

DR. MEHAK BHUTTANI

RESIDENT, LECTURER

DR. SEHRISH

RESIDENT, LECTURER

DR. NAJIA NAZEER

RESIDENT, LECTURER

DR. ESHA AFZAL

RESIDENT, LECTURER

RADIATION THERAPY

DR. SHABBIR HUSSAIN

MD LECTURER

DR. SHOAB HANIF

MD ONCOLOGY, LECTURER

MR. ARSHAD MAHMOOD

MSC, LECTURER

MS. HIRA NAZIM

MSC, LECTURER

MS. ZAINAB MUSTAFA

MSC, LECTURER

Mr. ASHER

MBA, LECTURER

MR. SHOAB SIDDIQUE

MSC, LECTURER

COLLEGE OF REHABILITATION SCIENCES

KEY INFORMATION

PRINCIPAL

Prof. Dr. Sumaira Imran Farooqui

CONTACT

Website:

<https://zcrs.zu.edu.pk/>

Telephone:

North: +92-21-36629250-51

Link Road: +92-21-36644153

Boat Basin: +92-21-35157572

Sukkur: +92-321-3660104,

+92-3213660190,

+92-3213660191

LOCATE US

North Nazimabad:

E/40/1/1 Wahid Colony, Wahid Colony, Karachi, Karachi City, Sindh 74600.

Link Road:

Education City, Link Road, Gadap Town, Karachi City, Sindh.

Boat Basin:

F-6 Block-5 Khayaban-e-Saadi, ZCRS Boat Basin, Karachi

Sukkur:

Ziauddin University, Village Dehra, Shikarpur Road, (Near Raja Water Park and Sports Complex) Sukkur, Pakistan.



It is my immense fortune to associate myself as student of Doctor of Occupational at Ziauddin College of Rehabilitation Sciences. The exceptional learning environment and established standards of education have significantly enhanced my academic and interpersonal skills. Great respect for faculty members for their dedication and hard work to transform the students into remarkable professionals. Special thanks to our Department for being a constant support and motivation throughout the journey.

HADIQA TABANI
DOT

INTRODUCTION

College of Rehabilitation Sciences was established in the year 1999 with the aim to produce competent Rehab specialists by providing quality education and hands on skills to improve the patient care in accordance with international standards. ZCRS offers Doctorate, MS/M.Phil., Doctor, Bachelor, Up-gradation/ Deficiency and diploma programmes in the field of rehabilitation sciences. More than 950 professionals have passed out till date and are working in all the major health care facilities worldwide.

VISION

Bestowing eminence in Rehabilitation.

MISSION

Being a futuristic rehabilitation sciences institution, becoming an integral part of the health system, preparing future rehab professionals with the knowledge, skill and attributes of evidence-based practice for the community's well being.

PROGRAMMES OFFERED AT KARACHI

- Ph.D., Doctor of Philosophy In Physical Therapy
- M.Phil., Master of Philosophy In Physical Therapy
- DPT Doctor of Physical Therapy
- DOT, Doctor of Occupational Therapy
- BPEHSS, Bachelors of Physical Education, Health And Sports Sciences
- ADPEHSS, Associate Degree In Physical Education Health & Sport Sciences
- ADOT, Accelerated Doctor of Occupational Therapy
- DFT, Diploma In Fitness And Training
- PGDOT, Post Graduate Diploma In Occupational Therapy

PROGRAMME OFFERED AT SUKKUR

- DPT, Doctor of Physical Therapy

DOCTOR OF PHYSICAL THERAPY

Doctor of physical Therapy is a five-year semester based degree programme.

LEARNING AND TEACHING STRATEGIES

Both national and international qualified teaching faculty is involved to promote better understanding through:

- Presentation/Assignment/Seminar
- Tutorials
- Skill based labs
- Projects
- Clinical Practice (Supervised)

CLINICAL TRAINING

Students of Ziauddin College of Rehabilitation Sciences have an exclusive advantage to be a part of an organization with a large setup of tertiary care hospitals. The clinical training provides a better chance of learning and practicing the skills in the field hence, prepares future therapists to play an important role in the improvement of healthcare quality in society. Students of 3rd, 4th & 5th Professionals complete their clinical training in physical therapy at all three sites of Dr. Ziauddin Hospital and the Primary Health Care Centre (PHC), Sikandara-bad for community services. In addition, ZCRS started their clinical collaboration with other major healthcare institutions like Dow University of Health Sciences - OJHA and SIPM&R campus (DUHS), Abbasi Shaheed Hospital, National Institute of Child Health (NICH), National Institute of Cardio-Vascular Diseases (NICVD), Sindh Govt. Hospital, Tabba Heart Institute, Al-Umeed Rehabilitation Association (AURA), Rabia Moon Trust, and Association for Children with Emotional Learning Problems (ACELP) and Department of Empowerment of persons with disabilities. ZCRS has spread its wings to the Sukkur City, MOU's has been signed with different private and public tertiary care hospitals and clinical setting for the clinical rotations of their student, furthermore the state of art Tertiary Care hospital is also under construction and expected to start the clinical services by the end of 2023.

SEMESTER SUMMARY

Basic Health Sciences

- Anatomy
- Physiology
- Exercise Physiology
- Biochemistry
- Pharmacology
- Microbiology & Pathology
- Movement Sciences
- Biomechanics & Ergonomics
- Medical Physics
- Molecular Biology & Genetics

b. Clinical Sciences

- Medicine
- Surgery
- Radiology & Diagnostic Imaging
- Emergency Procedures & Primary Care in Physical Therapy

c. Physical Rehabilitation Sciences

- Manual Therapy
- Physical Agents and Electrotherapy
- Musculo-skeletal Physical Therapy
- Health & Wellness
- Neurological Physical Therapy
- Integumentary Physical Therapy
- Therapeutic Exercises
- Cardiopulmonary Physical Therapy
- Gerontology and Geriatric Physical Therapy
- Paediatric Physical Therapy
- Clinical Decision Making and Differential Diagnosis
- Sports Physical Therapy
- Prosthetics & Orthotics
- Obstetrics & Gynaecological Physical Therapy

d. Social Sciences and Research

- Sociology
- Community Medicine & Rehabilitation
- Scientific Inquiry & Research Methodology
- Ethics & Administration
- Biostatistics
- Research Synopsis & Project
- Evidence-Based Practice



e. Compulsory Subjects:

- Pakistan Studies
- Introduction to Computers
- Islamic Studies/Ethics
- Functional English
- Academic reading and writing
- Technical and professional writing

STUDENT ASSESSMENT METHODS

- BCQs
- Short answer written examination
- Viva, OSPE/OSCE
- Group or individual presentation/ assignments
- Student log books or written reports Students are continuously assessed during the semester by the aforementioned methods.

ADMISSION CRITERIA

Doctor of Physical Therapy is a five-year semester based degree programme which is open to all science stream (Pre-Medical) students with minimum 50% marks from an accredited institution in Pakistan or equivalent to international standards. Therefore, candidates with O/A Levels must acquire equivalency before taking admission.

All candidates are selected on merit, according to the following criteria:

- SSC Marks
- HSSC Marks
- Entrance Test Marks
- Interview Applications are invited to all three sites Clifton, North and Education City Link road. (The final allocation of the site will be at the discretion of Ziauddin University depending upon the number of applications.)

CAREER OPPORTUNITIES

There are several career opportunities available for DPT graduates nationally and internationally. They can work in hospitals, rehabilitation centers, sports clubs, fitness centers, and private clinics. DPT graduates can specialize in various fields of physiotherapy, such as sports physiotherapy, neuro physiotherapy, Paediatric physiotherapy, and orthopedic physiotherapy.

The demand for DPT graduates is more comprehensive than in Pakistan. With the increasing demand for physiotherapy services globally, DPT graduates can also find employment opportunities

in foreign countries. The incorporation of research and evidence based practice in the curriculum has opened doors for autonomous practice.



MPHIL IN PHYSICAL THERAPY

ZCRS is aiming to create a dynamic research community, enabling physical therapists to fully equip themselves with the skills they require to excel in this field through Higher Degree programmes such as MPhil. ZCRS is offering MPhil in the following Specialties:

- Musculoskeletal Rehabilitation
- Cardiopulmonary Rehabilitation
- Neuromuscular Rehabilitation
- Exercise Physiology and Sports Sciences
- Women Health
- Paediatric Rehabilitation
- Applied Biomechanics and Anatomy

LEARNING AND TEACHING STRATEGIES

Both national and international qualified teaching faculty promote better understanding through:

- Presentation/Assignment/Seminar
- Tutorials
- Skill-based labs
- Projects
- Clinical Practice (Supervised/Independent)

SEMESTER SUMMARY

Semester I

- Applied Biomechanics
- Research, Biostatistics and Critical Appraisal in Physical Therapy
- Neuromuscular Rehabilitation/Histology & Micro Techniques
- Exercise Physiology/General & Systemic Embryology

Semester II

- Cardiopulmonary Rehabilitation/Gross Anatomy I with Basic Medical Imaging – I
- Women Health and Paediatric Rehabilitation/-Gross Anatomy II with Basic Medical Imaging –II
- Musculoskeletal Rehabilitation / Advance Biomechanics
- Teaching Professional and Scientific Practice

Semester III

- Evidence Based Clinical Decision Making
- Psychosocial aspects of Rehabilitation Sub specialty courses

Semester IV

For research students; Research Thesis
For the Course base; elective courses:

STUDENT ASSESSMENT EXAMINATION POLICY

- BCQs
- Viva
- Short answer written examination
- Directly Observed Clinical Skills
- Group or individual presentation/assignments
- Semester Examination Students are continuously assessed during the semester by the above methods.

ADMISSION CRITERIA

Physical therapy graduates who have completed their 4-year BPT or 5-year of DPT or equivalent from an accredited institution in Pakistan or equivalent to international standards. All candidates are selected on merit, fulfilling the following criteria:

- DPT/BPT/or equivalent
 - Interviews of short listed candidates
 - GAT General (50% cumulative score)
 - ZU GAT
- Applications are invited for North locations.

CAREER OPPORTUNITIES

This degree provides a foundation for PhD, This degree will provide students with professional skills and equip them to compete in the job market. There are opportunities in teaching, research and clinical institutions both nationally and internationally

DOCTOR OF PHILOSOPHY - PHYSICAL THERAPY

The aim of pursuing a PhD in Physical Therapy is to prepare physical therapy researchers to make significant enhancements in the field through research, specialization, leadership, and teaching, preparing them for careers in universities as educators, research scientists, policymakers, and entrepreneurs within the field of physical therapy.

LEARNING AND TEACHING STRATEGIES

Better understanding is promoted by both national and international qualified teaching faculty through presentation, audiovisual aids, hands on skilled based learning, research colloquia, collaborative learning, evidence-based practice, critical analysis, case-based presentations, proposals and thesis writing.

SEMESTER SUMMARY

Semester I

1. Advance Research Methodology
2. Advanced Epidemiology
3. Molecular Biology & Genetics
4. Major Discipline - I

Semester II

1. Advanced Research Techniques
2. Major Discipline-II
3. Advanced Biostatistics
4. Major Discipline-III

Dissertation

ADMISSION CRITERIA

- At least 18 years of education in the relevant discipline, Minimum CGPA 3.0/4.00 or 60% marks from HEC recognized institute (preferably the undergraduate and postgraduate degrees should be HEC attested or having HEC Equivalence certificate in case of foreign university education).
- Passed NTS GAT (subject) test with 60%, the University GAT (subject) test with 70% marks, or international GRE subject.
- An interview with Ph.D. Admission committee

CAREER OPPORTUNITIES

The Doctor of Philosophy offers several opportunities that involve academic roles, leadership, and research. A PhD holder can work in an academic institution as an associate professor or a professor. As a research scientist and clinical researcher in academic institutions, research centers, or even private organizations, the doors are open. Career as a Policy advisor/advocate, director of clinical programmes or research is also open for both the national and international market



DOCTOR OF OCCUPATIONAL THERAPY

Doctor of Occupational Therapy is a five-year semester based degree programme.

LEARNING AND TEACHING STRATEGIES

Both National and International qualified teaching faculty is involved to promote better understanding through:

- Presentation/Assignment/Seminar
- Tutorials
- Skills-based labs
- Projects
- Clinical Practice (Supervised)

CLINICAL TRAINING

Students of Doctor of Occupational Therapy have an exclusive advantage to be a part of an organization with a large setup of tertiary care hospitals. The clinical training provides a better chance of learning and practicing the skills in the field hence, prepares future therapists to play an important role in the improvement of healthcare quality in the society. Students of 3rd, 4th & 5th professionals complete their clinical training in Occupation Therapy at all three sites of Dr. Ziauddin Hospital. In addition, Ziauddin College of Rehabilitation Sciences (ZCRS) started their clinical collaboration with other major healthcare institutions like Dow University of Health Sciences - OJHA campus (DUHS), National Institute of Child Health (NICH), Abbasi Shaheed Hospital, ANF, Shaheed Benazir drug rehabilitation center, karwane hayat, Pakistan centre of Autism, Dr. Ayesha memorial hospital, AKU and SIPMR.

National Institute of Child Health (NICH), National Institute of Cardio Vascular Diseases (NICVD), AI-Umeed Rehabilitation Association (AURA), Rabia Moon Trust, Indus Hospital and Association for Children with Emotional, Learning Problems (ACELP) and Department of Empowerment of persons with disabilities (DEPD).

SEMESTER SUMMARY

A. BASIC HEALTH SCIENCES:

- Anatomy
- Physiology

- Biochemistry and Genetics
- Pharmacology
- Pathology
- Psychology
- Biomechanics
- Occupational science

B. CLINICAL SCIENCES:

- Medical Conditions
- Surgical Conditions
- Development & Abnormal Psychology
- Introduction to psychology
- Psychiatric conditions

C. OCCUPATIONAL REHAB SCIENCES:

- Introduction to Occupational Therapy
- Occupational Therapy Assessment and Evaluation
- Occupational Therapy Intervention
- Applied Pediatrics for Occupational Therapy
- Applied Geriatric for Occupational Therapy
- Therapeutic Activities and their Techniques
- Occupational Therapy in Acute Care
- Sensory Integration
- Professional practices and contemporary issues
- Community-Based Rehabilitation and Teaching Methodology
- Assistive Technology
- Prosthetics and Orthotics
- Ergonomics

D. SOCIAL SCIENCES AND RESEARCH:

- Sociology
- Management and leadership
- Professional Practice & Teaching Methodology
- Research Methodology
- Biostatistics
- Scientific Inquiry & Research Methodology
- Evidence-based practice

E. COMPULSORY SUBJECTS:

- Islamiat/Moral Ethics
- Pakistan Studies
- Introduction to Computer
- Functional English
- Academic reading and writing
- Technical and professional writing

ADMISSION CRITERIA

The Doctor of Occupational Therapy is a five-year semester based degree programme which is open to all science stream (Pre-Medical) students with minimum 50% marks from an accredited Institution in Pakistan or equivalent to international standards. Therefore, candidates with O/A levels must acquire equivalency before taking admission. All candidates are selected on merit, according to the following criteria:

- SSC Marks
- Entrance Test Marks
- HSSC Marks
- Interview

The course is offered at the Clifton location.

CAREER OPPORTUNITIES

There are a growing number of career opportunities available to occupational therapists, Professional occupational work with individuals from every age group and community, and they may work in a variety of settings, including business and industrial workplaces, community-based programmes (homeless shelters, athletic clubs, and group homes), health agencies, hospitals, schools, and rehabilitation centers. More experienced practitioners can advance into management, specialization, teaching, or research.



ACCELERATED DOCTOR OF OCCUPATIONAL THERAPY

Accelerated Doctor of Occupational Therapy is a one-year semester based degree programme for professional occupational therapists, keen to upgrade their degrees for their professional growth and enhance their expertise within the respected field of science.

LEARNING AND TEACHING STRATEGIES

Both national and international qualified teaching faculty promote better understanding through:

- Presentation/Assignment/Seminar
- Online learning
- Online International courses professional growth
- Tutorials
- Projects

SEMESTER SUMMARY

• Semester - I

- Introduction to Computers
- Biomechanics and Ergonomics
- Professional Practices and teaching methodology
- Islamic studies/Pakistan studies
- Biostatistics
- Technical and professional writing

• Semester - II

- Health and Wellness in Occupational Therapy
- Applied Paediatric and Sensory Integration
- Community Based Rehabilitation and Contemporary Issues

- Pathology and Microbiology
- Occupational Therapy in Acute Care
- Assistive Technology and Rehabilitative Environment
- Research

STUDENT ASSESSMENT EXAMINATION POLICY

- BCQs
- Short answer written examination
- Viva
- Group or individual presentation/assignment

Students are continuously assessed during the semester by the above techniques. This carries 30% weightage for each course.

ADMISSION POLICY

Occupational therapy graduates who have completed their 4-year BOT/BSOT or equivalent from an accredited institution in Pakistan or equivalent to international standards. All candidates are selected on merit, fulfilling the following criteria:

- BOT/BSOT/or equivalent
- Interviews of shortlisted candidates

CAREER OPPORTUNITIES

Professional occupational therapists will be able to deliver evidence based occupational therapy treatment and evolve with changes within the healthcare system.

BACHELOR IN PHYSICAL EDUCATION, HEALTH AND SPORTS SCIENCES

Bachelors in Physical Education, Health and Sports Sciences are a four – year semester based degree programme. In the era of educational revolution, the main objective of the BS 4-Years programme in Physical Education, Health & Sports Sciences is to prepare graduates for a deep knowledge of the subjects as well as the ability to analyze a given situation and draw out a conclusion. This knowledge is then brought together during the study of training theory, that is, the science of how we can train most efficiently in specific sports and achieve an ideal balance between exercise, rest and diet. The primary aim of the programme is to produce broad base graduates able to face challenges of the modern world with a focus on physical activity, health and performance

LEARNING AND TEACHING STRATEGIES

Both national and international qualified teaching faculty promotes better understanding through:

- Presentation/Assignment/Seminar
- Tutorials
- Skill based labs
- Sports Training
- Projects
- Supervised Coaching and Training

SUPERVISED COACHING AND TRAINING

Students of Ziauddin College of Rehabilitation Sciences have an exclusive advantage to be a part of an organization with a large setup of a Sports Complex. Sports training are an efficient means to enhance both the academic and practical skills that prepare athletes for the upcoming competitions and seasons by polishing their physical skills and boosting their performance. The professional trainers use verified training techniques and innovative workout routines to asset the needs of individual players. Moreover, Students in their 3rd and 4th professional years are also sent to different

sports training academies and clubs to enhance their capabilities.

SEMESTER SUMMARY

A. Basic Sciences

- Physiology
- Kinesiology
- Anatomy
- Fundamental Applications of Physics
- Biochemistry
- Biomechanics & Ergonomics

B. Compulsory Subjects

- Pakistan Studie
- Islamic Studies/Ethics
- Introduction to Computer
- Functional English
- Academic reading & writing
- Technical and professional writing

C. Sports Sciences

- Philosophical Basis of Health, Physical Education & Sports Sciences
- Exercise Physiology
- Test Measurement & Evaluation in Physical Education & Sports Sciences
- Psychology
- Wellness & Fitness
- Games
- Athletics
- Gymnastics
- Science of Sports Training
- Introduction to Modern Technologies
- Sports Nutrition
- Role of Media in Sports
- Planning Sports Facilities
- Talent Identification in Sports
- Adapted Physical Education
- Specialization in one Group of Track and Fields
- Scientific Sports Coaching
- Specialisation in One Game
- Sports Medicine
- Common Sports Injuries, Treatment & Rehabilitation
- Physical Education for Special Population

- Administration and Management in Sports

D. Social Sciences & Research

- Statistics
- Biostatistics
- Sociology
- Environmental Sciences
- Research Methodology in Physical Education
- Research Proposal
- Curriculum Development in Physical Education (Professional Practices & Teaching Methodologies)
- Research Thesis/Research Project

STUDENT ASSESSMENT METHODS

- a. BCQs
- b. Short answer written examination
- c. Viva
- d. Group or individual presentation/assignments
- e. Student log books or written reports

ADMISSION CRITERIA

Physical Education, Health and Sports Sciences is a Four-Year semester based degree programme which is open to all science stream F.S.C (Pre-Medical/Pre Engineering), F.A, I.Com students with minimum 45% marks

from an accredited institution in Pakistan or equivalent to international standards. Therefore, candidates with O/A Levels must acquire equivalency before taking admission. All candidates are selected on merit, according to the following criteria:

- a. SSC Marks
- b. HSSC Marks
- c. Entrance Test Marks
- d. Interview

The course is offered at the Clifton Location.

CAREER OPPORTUNITIES

Students graduating from the Physical Education, Health & Sports Sciences have a wide-spread career prospect and after the successful completion of their course, they will be able to seek employment as exercise specialists, fitness and wellness coordinators, sport performance researchers, and strength and conditioning specialists. Moreover, graduates would be able to enter professional graduate programmes in exercise sciences and other fields, such as biomechanics, exercise physiology, and motor behavior.



ASSOCIATE DEGREE IN PHYSICAL EDUCATION, HEALTH AND SPORTS SCIENCES

Associate Degree in Physical Education, Health and Sports Sciences is a two – year semester based degree programme. In the era of educational revolution the main objective of the BS 2-Years programme in Physical Education, Health & Sports Sciences is to prepare graduates to have knowledge of these unique subjects and enhance their skillset to excel in the respected area of study.

LEARNING AND TEACHING STRATEGIES

Both national and international qualified teaching faculty promotes better understanding through:

- Presentation/Assignment/Seminar
- Tutorials
- Skill based labs
- Sports Training
- Projects
- Supervised Coaching and Training

SUPERVISED COACHING AND TRAINING

Students of Ziauddin College of Rehabilitation Sciences have an exclusive advantage to be a part of an organization with a large setup of Sports Complex. The Sports training provides a better chance of learning and practicing the skills in the field, hence prepares students to play an important role in training and prepares athletes for upcoming competitions and seasons by polishing their physical skills.

SEMESTER SUMMARY

A. Basic Sciences

- Physiology
- Kinesiology
- Human Anatomy
- Anatomy
- Fundamental Applications of Physics
- Biochemistry
- Biomechanics & Ergonomics

B. Compulsory Subjects

- Pakistan Studies
- Islamic Studies/Ethics
- Introduction to Computer

- Functional English
- Academic reading and writing
- Technical and professional writing

C. Sports Sciences

- Philosophical Basis of Health, Physical Education & Sports Sciences
- Exercise Physiology
- Test Measurement & Evaluation in Physical Education & Sports Sciences
- Psychology
- Wellness & Fitness
- Games
- Athletics
- Gymnastics
- Administration and Management in Sports

D. Social Sciences & Research

- Statistics
- Biostatistics
- Sociology
- Environmental Sciences

STUDENT ASSESSMENT METHODS

- BCQs
- Short answer written examination
- Viva
- Group or individual presentation/assignments
- Student log books or written reports

Students are continuously assessed during semester by above methods. This carries 30% weightage for each course.

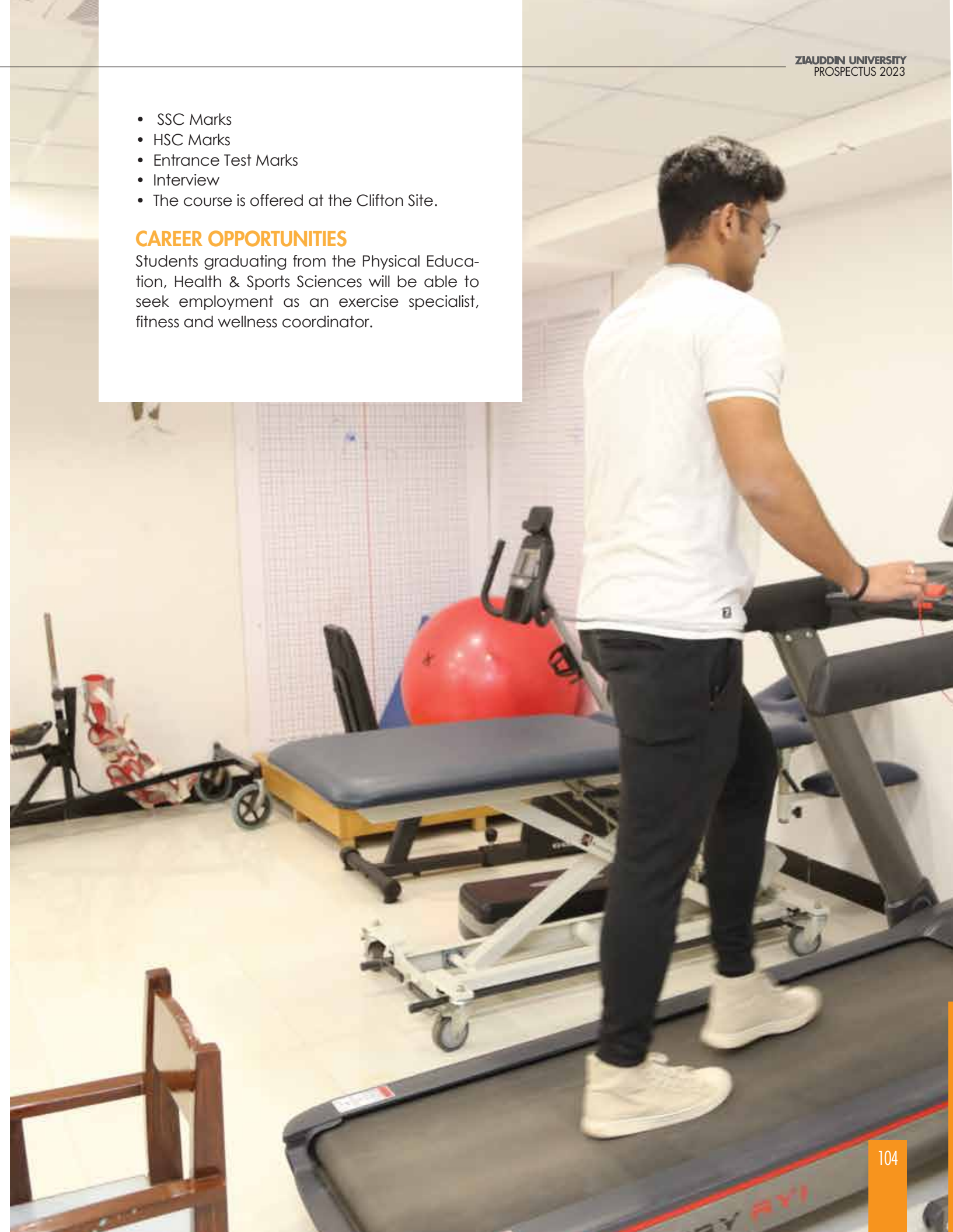
ADMISSION POLICY

Physical Education, Health and Sports Sciences is a Four-Year semester based degree programme which is open to all science stream F.S.C (Pre-Medical/Pre-Engineering), F.A, I.Com students with minimum 45% marks from an accredited institution in Pakistan or equivalent to international standards. Therefore, candidates with O/A Levels must acquire equivalency before taking admission. All candidates are selected on merit, according to the following criteria:

- SSC Marks
- HSC Marks
- Entrance Test Marks
- Interview
- The course is offered at the Clifton Site.

CAREER OPPORTUNITIES

Students graduating from the Physical Education, Health & Sports Sciences will be able to seek employment as an exercise specialist, fitness and wellness coordinator.



DIPLOMA IN FITNESS & TRAINING

Diploma in fitness and training is 6 months fitness and training programme for trainers to provide competent services as physical training instructor that encourages professionalism in the field of exercise and training. It helps enable physical trainers to understand general principles of exercise, training and protocols of strengthening and endurance exercise.

ADMISSION POLICY

Candidates with minimum of 12 years education is eligible for admission in diploma in fitness and training programme.

LEARNING AND TEACHING STRATEGIES

Both national and international qualified teaching faculty promotes better understanding through:

- Presentation/Assignment/Seminar
- Tutorials
- Practical sessions

DIPLOMA SUMMARY

- Anatomy of Sports and Exercise
- Biomechanics and Kinesiology
- Ethical and Legal aspects of Training
- Fitness and Exercise
- Training and Training Method
- Sports Nutrition

STUDENT ASSESSMENT METHODS

- Group or individual presentation/assignments.
- True/False
- VIVA/Practical
- The examination shall comprise of true and false and the practical evaluation of the students have a minimum passing criteria of 60%
- Minimum of 80% attendance is mandatory for the students. The student must complete all the practical and other work as prescribed in the syllabus.

AWARD OF DIPLOMA

After the completion of the prescribed course by the College, candidates will be given a diploma certificate in the fitness training programme by Ziauddin College of Rehabilitation Sciences, Ziauddin University.

CAREER OPPORTUNITIES

The Diploma in fitness and training programme provides guidance of the fundamental basis of training prescribed to clients rendering their needs. It helps fitness trainers to design and prescribe the exercise based fitness management protocol in accordance with the guideline of the American college of sport medicine.

FACULTY MEMBERS

PRINCIPAL, PROFESSOR

PROF. DR. SUMAIRA IMRAN FAROOQUI
BSPT, MPA, DPT (D), Ph.D. in Physical Therapy

PROFESSOR, CLINICAL HEAD

PROF. DR. SYED ABID MEHDI KAZMI
BSPT, MPT, DPT (D), PhD in Physical Therapy

VICE PRINCIPAL,

ASSISTANT PROFESSOR SUKKUR

MR. MUHAMMAD USMAN KHAN
PhD Scholar, MSPT, PPDPT, BPT

VICE PRINCIPAL/ HOD OT,

ASSISTANT PROFESSOR

MS. NEELUM ZEHRA
MSHCM, PGD-HCM, ADOT, TBsOT, BscOT

VICE PRINCIPAL PT/ HOD PEHSS,

ASSISTANT PROFESSOR

MS. QURAT UL AIN ADNAN
PhD Scholar, MSPT, ADPT, BSPT

POST GRADUATE COORDINATOR,

ASSOCIATE PROFESSOR

DR. AMNA AAMIR KHAN
PhD, MSc (UK), BSPT

MPHILL COORDINATOR,

ASSISTANT PROFESSOR

MR. ABID KHAN
PhD Scholar, MSPT, ADPT, BSPT

DPT COORDINATOR,

(EDUCATION CITY LINK ROAD)

LECTURER

MS. ZARMINA QAZI
DPT

DPT COORDINATOR (NORTH),

SENIOR LECTURER

MS. AREEBA KHAN
MPhil in Physical Therapy (Enrolled), DPT

DPT COORDINATOR (CLIFTON),

ASSISTANT PROFESSOR

MS. BATOOL HASAN
PhD Scholar, MPhil, ADPT, BSPT

DFT COORDINATOR, ASSISTANT PROFESSOR

MR. AHAD HASAN
MSPT, DPT (D), BSPT

ASSISTANT PROFESSORS

MS. ASMA HAMEED
MSPT, DPTD, BSPT

MS. AL WARDHA ZAHOR

MScPT, DPT

MS. JAZA RIZVI

PhD Scholar, MPhil Physical Therapy, DPT

MR. SHAHRUKH

MPHIL, MSPT, ADPT, BPT

MR. SYED IRFAN HAIDER NAQVI

MSPT, DPT

MS. SAIMA ALI

MScPT, DDPT, BSPT

MR. SYED MEERAN HASNAIN

MSPT, DPT (D), BSPT

MS. SABIKA ZEHRA

M.Phil. HPESS (Enrolled), MScPT, DPT (D), BSPT

MS. SANA MAHMOOD

MPhil in Physical Therapy, DPT

MS. SHAISTA TARIQ

PhD Scholar, MS (Economics and Finance),
MBA

MS. ZUHAIIRA FAROOQUI

PPDPT, BSPT

MR. ZAKI HASAN

PhD Scholar, MBA, BBA

SR. LECTURERS

MS. AMNA MUNIR

M.Sc. Physiology, B.sc Physiology

MS. FARYAL SHOUKAT
MPhil in Physical Therapy (Enrolled), DPT

MS. FOUZIA HUSSAIN
MPhil in Physical Therapy, DPT

MS. FATIMA HAMZA
MPhil in Physical Therapy (Enrolled),
ADPT, BSPT

MS. HINA ASIF
M.SC

MR. MUHAMMAD ATHER HASHMI
MPhil in Physical Therapy, DPT

MS. MAHNOOR KHURSEED
MPhil in Physical Therapy, DPT

MS. NOOR-UL-AIN KOMAL
MPH/DPT

MS. SYEDA ZEERAK
MBA HR

MR. SAJJAD AHMED
MPHIL (Enrolled), MSC (Statistics), MSC
(Statistics), BSC (HONS) Statistics

MR. SAAD AKHTAR
M. Sc. HPSS, Professional Diploma (HEALTH
SAFETY AND ENVIRONMENT)

LECTURERS

MS. AMBER AMIR ALI
DOT

MS. ANGELA JOHN
MPhil in Physical Education and Sports
Sciences (Enrolled), DPT

MS. AQSA SAJJAD
THERAPIST

MR. DANISH ZAMAN
MPhil in Physical Therapy (Enrolled), DPT

MS. FARKHUNDA FEROUZ
DPT

MR. HUZAIFA ATHER RAJAR
MPhil in Physical Therapy (Enrolled), DPT

MS. HAJRA AMEER SHAIKH
MPhil in Physical Therapy, DPT

MS. HIBA KHAN
DOT

MS. HINA HAFEEZ
DOT

MS. IQRA SANGI
M.Sc. Physiology, B.Sc. Physiology

MS. IQRA MEMOONA MALIK
DPT

MS. KIRAN BIBI
DPT

MS. KHUSHBOO MARIAM
DPT

MR. MEER BILAWAL
DPT

MS. MAHA SIDDIQUI
MPhil in Physical Therapy (Enrolled), DPT

MS. MEHAK
BA/MA (English)

MS. MARIA PARVEZ
DPT

MS. MISBAH ALNOOR
DPT

MR. MUHAMMAD KAMRAN YOUSUF
M.Sc. Physiology, B.sc Physiology

MR. MUHAMMAD USMAN
DPT

MS. MEMOONA TAJ
DPT

MS. NABEELA WALI
DOT

MS. NISHA RAFIQUE
B.S in Microbiology

MS. RAMSHA UMAR
M. Sc (HPSS), B. Sc (Hons) HPSS

MS. RAHAT AKHLAQ
SENIOR PHYSICAL THERAPIST, DPT

MS. SAIQA JALIL
MPhil in Physical Therapy (Enrolled), DPT

MS. SAIN
MSPT (Enrolled) /DPT

MS. SUMMAIYA RUBAB
DPT

MS. SHAIKH MARIA TABASSUM
DOT

MS. TALALA BASHIR
MPhil in Physical Therapy (Enrolled), DPT

MS. UROOSA AMIN
MPhil in Physical Therapy (Enrolled), DPT

MS. UROOJ SAGHIR
DOT

MS. ZAHRA KHAN AFRIDI
DPT

LOCATION

North Nazimabad: Plot # E/40/1/1 – Wahid Colony, Block – B, Karachi.
Boat Basin: F-6 Block-5 Khayaban-e-saadi, Zcrs Boat Basin, Karachi.
Link Road: Education City, Link Road, Gadap Town, Karachi.
Sukkur: Ziauddin University, Village Dreha, Shikarpur Road, Sukkur.

CONTACT INFORMATION

Website: <https://zcrs.zu.edu.pk/>

Telephone:

North: +92-21-36629250-51

Clifton: +92-21-35148594, +92-21-35148642

Zu Education City Link Road: +92-21-36629250-51

Sukkur: +92-321-3660104

COLLEGE OF PODIATRIC MEDICINE

KEY INFORMATION

PRINCIPAL

Dr. Faisal Ali Khan

CONTACT INFORMATION

Website:

<https://zcpm.zu.edu.pk/>

Telephone:

+92-21-35305790, +92-21-35148626

Email:

info@zu.edu.pk

Locate Us:

MBBS Building, Ground Floor,
Opposite To Auditorium

Hi! I'm Sauda Hussain, and I'm currently a third-year student pursuing a Doctor of Podiatric Medicine at Batch-I. My journey in this field has been absolutely exhilarating and fulfilling. From the moment I stepped into the classroom, I knew I had found my passion – a profession that combines my love for medicine and my desire to make a positive impact on people's lives.

Studying podiatry has been an eye-opening experience for me. The comprehensive curriculum provided by our esteemed institution has equipped me with a solid foundation in anatomy, biomechanics, and pathology. Initially the program comprised of basic science subjects that starts from first to the fifth semester. Then, from the sixth semester onwards, we engaged in practical hands-on training and clinical rotations, complemented by engaging lectures. This approach has ensured that I develop both theoretical knowledge and essential clinical skills.

I am deeply appreciative of the guidance and mentorship provided by our esteemed faculty. Their expertise and dedication have been beneficial in shaping my academic and professional growth. They have not only conveyed knowledge but also instilled in me a sense of responsibility and ethical practice, reinforcing the importance of serving with integrity and compassion.

As I approach the senior year of my podiatry education, I feel confident and excited about the prospects that lie ahead. With the vast scope of podiatric medicine and the ever-evolving healthcare landscape, I know that I am stepping into a career that is both intellectually stimulating and gratifying. Although podiatry is a diverse and challenging field, it's this very aspect that keeps it thrilling. Once you have a clear sense of your goals, the journey becomes even more exhilarating and inspiring.

In conclusion, my journey as a podiatry student has been a transformative experience. It has strengthened my commitment to providing exceptional healthcare and has solidified my belief that becoming a podiatrist is the perfect path for me. I am eager to continue learning, growing, and contributing to the well-being of my future patients and the broader community.

If you're considering a career in podiatry, I wholeheartedly recommend taking this step towards a profession that combines passion, purpose, and endless possibilities.

Good Luck!

Regards,
SAUDA HUSSAIN
BATCH-I, 3RD YEAR

INTRODUCTION

Ziauddin University kept its tradition once again, as a pioneer to introduce a very emerging field in medicine after DPT in Pakistan that is Podiatric Medicine. It's a semester based five-year degree programme with highly Qualified faculty members and the DPM is recognized all over the world and is rapidly making its place in the field of medicine, recently the scope of this field has gone vast and neat for podiatrists as an increase in immense need.

You'll be glad to know that at the end of these five years you will not just get the Medical Degree but you'll become specialist in Podiatric Medicine.

VISION

To produce competent and dedicated health care professionals committed to lead the field in Podiatric medical education through research, and community service efforts for better patient care outcome.

MISSION

Ziauddin College of Podiatric Medicine is committed to produce professional skilled Podiatric Doctors of International standards with strong medical knowledge and clinical skills. The College will prepare students for eligibility for Graduate Medical Education, licensure and practice. Furthermore, it is the College's mission to promote state-of-the art patient care in affiliated facilities, and to pursue research to continuously advance the art and science of podiatric medicine.



DOCTOR OF PODIATRIC MEDICINE

ELIGIBILITY CRITERIA

- SSC Marks
- Entrance Test Marks
- HSC Marks
- Interview
- The course is offered at Clifton Location

CAREER PROSPECTS

Doctor of Podiatric Medicine is popular both nationally and internationally. The incorporation of research and evidence-based practice in the curriculum has opened the doors for autonomous practice.

Podiatrists may focus on a specialty such as pediatrics, geriatrics or sports medicine. In addition to private practice, podiatrist may

- Work in hospitals (including in foot clinics associated with a hospital) and long-term care facilities
- Teach in schools of medicine and nursing
- Work in health departments
- Private practice set their own hours, it is a flexible career, making it a good fit for people who want or need a balanced lifestyle. Generally, podiatrists work between 30 and 60 hours a week.

DURATION OF PROGRAMME

Doctor of Podiatric Medicine is a five-year semester based degree programme.

FACULTY MEMBERS

Principal
Dr. Faisal Ali Khan

Dr. Murk Fatima
Assistant Professor, Lecturer

Dr. Maryam Imran
Lecturer

Dr. Hafsa Tajwar
Lecturer

Dr. Ujalla Kumari
Lecturer

Dr. Syed Asad Sibtain
Lecturer

COLLEGE OF PUBLIC HEALTH

KEY INFORMATION

PRINCIPAL

Dr. Shahkamal Hashmi

CONTACT INFORMATION

Website:

<https://zu.edu.pk/college-of-public-health/>

Telephone:

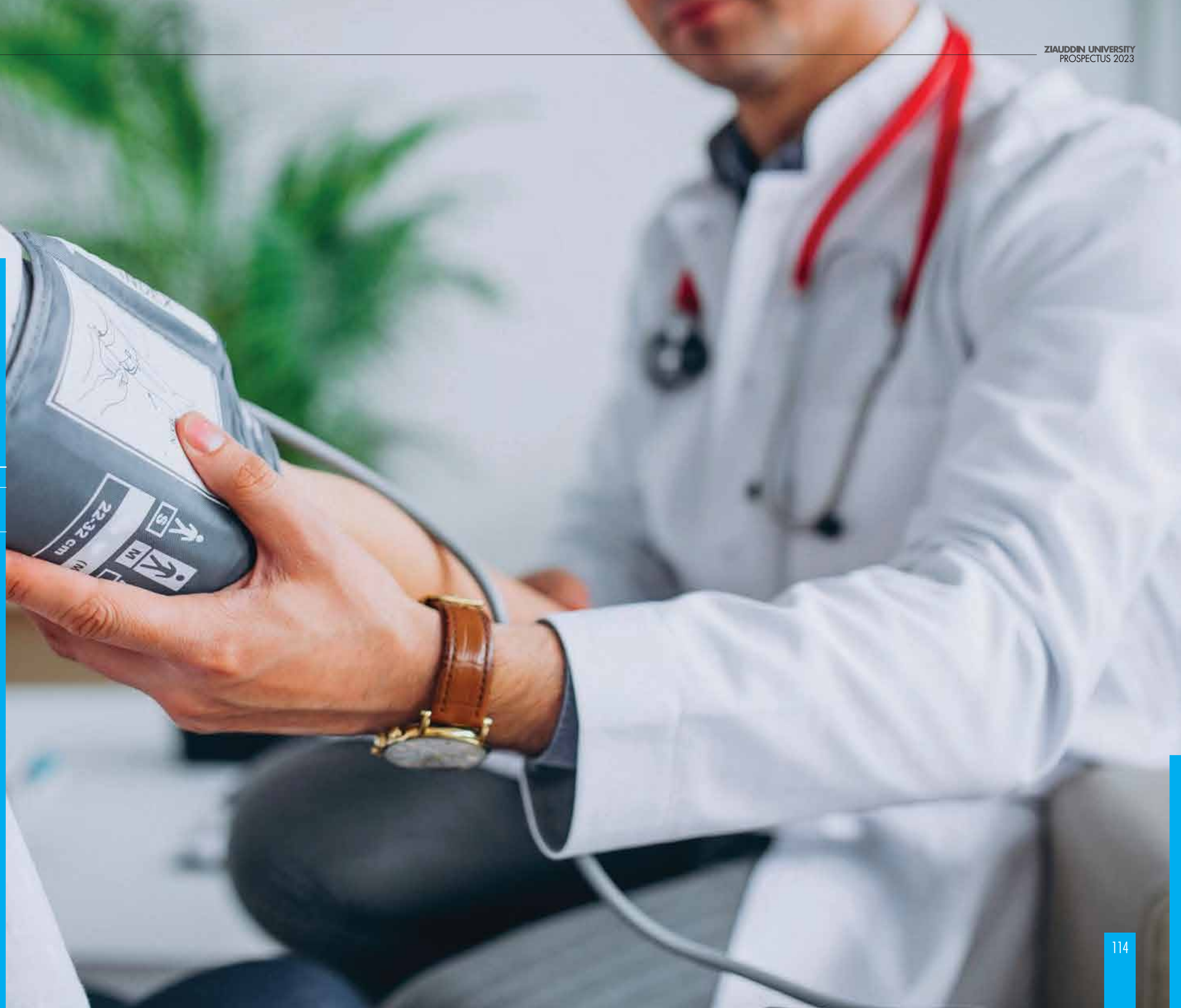
+92 21 35862937-9

Email:

info@zu.edu.pk

Locate Us:

Ground Floor, H.A Arcade, B.C-05,
Block-1, Clifton, Karachi-75600



INTRODUCTION

Welcome to the College of Public Health, a pioneering institution dedicated to advancing the field of public health and shaping the future of population well-being. We are thrilled to embark on this transformative journey, committed to equipping our students with the knowledge, skills, and passion to address the complex health challenges of our time.

In an era where health concerns transcend borders, where the global population faces emerging diseases, environmental threats, and health disparities, the need for qualified public health professionals has never been more crucial. At Ziauddin College of Public Health, we believe that through education, research, and community engagement, we can drive positive change and create healthier societies for generations to come.

Our college's foundation is built upon a multidisciplinary approach that encompasses the social, biological, environmental, and behavioral aspects of public health. By integrating diverse disciplines such as epidemiology, biostatistics, health policy, environmental health, and health promotion, we provide a comprehensive education that prepares students to tackle complex health issues from multiple perspectives.

The faculty at Ziauddin College of Public Health consists of renowned scholars, practitioners, and researchers who bring a wealth of expertise and experience to the classroom. With their guidance and mentorship, students will have the opportunity to engage in cutting-edge research, participate in community-based projects, and collaborate with local and global partners to implement evidence-based interventions.

One of our core principles is to foster an inclusive and collaborative learning environment that embraces diversity and promotes cultural competency. We believe that the richness of perspectives and backgrounds within our student body and faculty enhances the educational experience,

equipping graduates with the necessary skills to address health disparities and promote health equity across diverse populations.

At Ziauddin College of Public Health, we recognize that the future of public health lies not only in academia but also in real-world application. Therefore, we have established strong partnerships with public health agencies, non-profit organizations, healthcare systems, and governmental bodies to provide students with invaluable hands-on experiences and internships that bridge theory and practice.

Through our commitment to excellence, innovation, and social responsibility, we aim to become a global leader in public health education and research. We aspire to produce graduates who possess the analytical rigor, critical thinking, and leadership skills necessary to navigate the complexities of public health and drive meaningful change in their communities.

We invite you to join us on this transformative journey as we embark on a mission to improve population health, advocate for social justice, and create a healthier and more equitable world. Together, let us shape the future of public health and inspire a new generation of public health leaders and champions. Welcome to Ziauddin College of Public Health, where we empower individuals to make a difference in the health of populations.



MASTERS OF SCIENCE IN PUBLIC HEALTH

The Masters of Science in Public Health (MSPH) Programme offered by Ziauddin University is a comprehensive postgraduate programme designed to enhance the health status of the population by equipping public health and healthcare professionals with the necessary knowledge and skills. This programme focuses on providing high-quality education and training in public health sciences. The MSPH Programme prepares graduates to make a significant impact on the health and well-being of populations by contributing to research, policy development, programme management, and the overall improvement of public health outcomes.

CAREER OPPORTUNITIES

Upon completion of the MSPH programme, graduates will be well-prepared to pursue a wide range of career opportunities in the field of public health. Some potential career paths include:

- Public Health Officer: Work in governmental agencies, such as ministries of health, to develop and implement public health policies and programme.
- Epidemiologist: Conduct research and investigate patterns and causes of diseases and injuries to improve public health outcomes.
- Health Educator: Design and implement educational programmes to promote healthy behaviors and prevent diseases within communities.
- Health Policy Analyst: Analyze health policies and their impact on public health and provide recommendations for improvement.
- Programme Manager: Oversee the planning, implementation, and evaluation of public health programmes and initiatives.

These are just a few examples, and the MSPH Programme opens doors to various other positions in governmental agencies, non-governmental organizations, research institutions, and community health organizations.

PROGRAMME DURATION, CREDITS AND TRACKS:

- The MSPH programme "A" consists of 39/42 credits including 12 core courses, (3 elective courses in the specialized track) and a project or thesis. One credit is equivalent to 16 hours of formal teaching/contact hours or 45 hours of practical fieldwork. Practical fieldwork is defined as consisting of individual fieldwork, group fieldwork, field visits, individual assignments and class exercises.
- The MSPH programme "B" consists of 60 credits for Bachelor's degree with 16 years of education other than the core medical degrees.

ELIGIBILITY CRITERIA

To be eligible for the MSPH Programme, candidates must meet the following criteria:

1. MSPH Programme "A" (39/42 credits):

- MBBS (Registered with PMDC)
- BDS (Registered with PMDC)
- MD (Registered with PMDC)
- BSc Nursing 4 Years (Registered with PNC)
- DVM (Registered with Veterinary Council)
- BSc Paramedics-4 years
- BSPH
- Pharm D/Equivalent (Registered with Pharmacy Council)
- BS Physiotherapy/Equivalent

2. MSPH Programme "B" (60 credits):

- Bachelor's degree with 16 years of education other than core medical degrees.

OUTCOME

• **Educate and Train Public Health Leaders:** The programme provides comprehensive training and education to equip students with the skills necessary to address public health challenges and become effective leaders in the field.

• **Conduct Research to Improve Public Health:** Students engage in cutting-edge research to identify social causes of diseases, design interventions, and develop evidence-based solutions to address public health challenges.

- **Collaborate to Improve Public Health:** The programme fosters partnerships with various stakeholders, including government agencies, non-governmental organizations, and community groups, to improve public health outcomes through collaboration and collective efforts.

- **Practical Application of Public Health Knowledge:** Through practicum placements and a supervised dissertation, students integrate their public health knowledge, skills, and methods in real-world practice contexts, ensuring they are well-prepared for the challenges of the field.

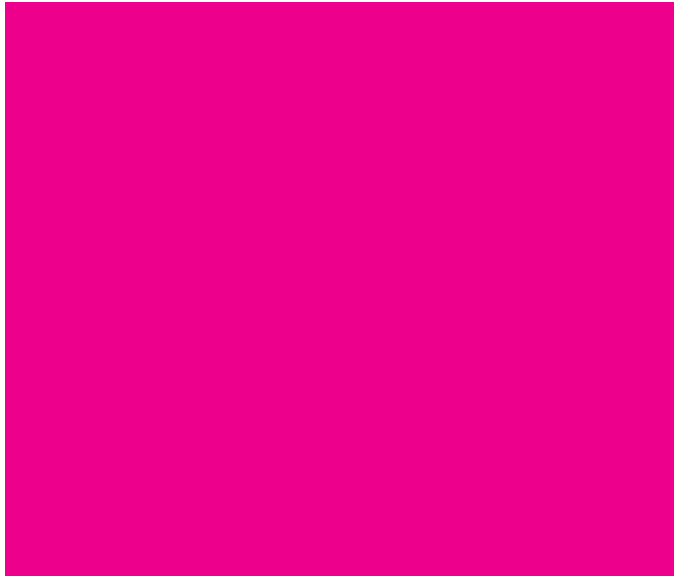
FACULTY MEMBERS

Dr. Shahkamal Hashmi
Principal, College of Public Health
MBBS, MS, MPH, PH.D.

CONTACT INFORMATION

021-35862937-9 EXT: 2578

FACULTY OF PHARMACY



FACULTY OF PHARMACY

KEY INFORMATION

DEAN

Prof. Dr. Nudrat Fatima

CONTACT INFORMATION

Website:

<https://zfp.zu.edu.pk/>

Telephone:

+92-21-35862937-9 Ext:2631

Email:

zcp@zu.edu.pk

Locate Us:

Education City, Link Road,
Gadap Town, Karachi.

There is a deep sense of gratification within me to be the recipient of a gold medal from Ziauddin University (Faculty of Pharmacy). My journey with Ziauddin University is one of the most significant events of my life. I still remember coming to this university as an amateur and not knowing many people. I recall the highs and lows during this journey but it all came together in the end and I am extremely grateful for the time spent there where a plethora of experiences were offered to me along with extracurricular activities which assisted me in improving my skills and a great foundation to carry on.

Attending pharmacy at Ziauddin University has nurtured my passion for public service and through this profession I've been given the tools to bridge the gaps in health care and to bring changes that I hope to see in the world. I feel privileged to be taught by such an experienced faculty having a lot of knowledge, dedication, and expertise in the field of pharmacy. No doubt, Ziauddin University employs a professional faculty that pushes students to strive for excellence. I feel confident that the programme's structure helped me to be the well-rounded pharmacist I wanted to be. With a sense of achievement, I am thankful to ZU for your commitment to education and hope to contribute to my society in the near future.

AREEBA SOHAIL
PHARM.D - BATCH 14

VISION

"To be a global leader in pharmacy and pharmaceutical education, research and practice with the ultimate goal of providing excellent, innovative patient care and drug development."

MISSION

The mission is to achieve excellence in pharmacy education, research and practice through dissemination of knowledge and skills by qualified and experienced faculty. With an aim to prepare professionals who can fulfill the growing healthcare needs of the society and provide standard pharmaceutical care.

INTRODUCTION

Pharmacy, along with medicine and nursing forms the backbone of our healthcare system. We cannot afford to be left behind other nations in providing quality drugs to our masses and professional manpower to our health care institutions. We have to cater to the needs of this system by producing well qualified, professionally trained and highly competent pharmacists to perform the specialised tasks in their specific areas of activity, such as drug

design, synthesis, manufacturing, quality assurance, marketing and supply system, procurement, storage, distribution and use of drugs in industry, hospital setting or in community practice. In all advanced health care systems the support of a clinical pharmacist, who is a drug therapy consultant and drug information specialist, is considered vital. Realising the importance of Pharmacy education, Ziauddin University started its 5-year Doctor of Pharmacy (Pharm.D) programme in January 2005. The Pharmacy institution of Ziauddin University is following the curriculum approved by Higher Education Commission (HEC) & Pharmacy Council of Pakistan (PCP) based on the semester examination system. This is an accredited and recognised programme of Pharmacy Council of Pakistan.

The programme provides students with core knowledge, skills, abilities, attitudes and values that are necessary to the provision of Pharmaceutical care. The professional courses in the Pharm.D curriculum consists of didactic material, laboratory courses, and practical experience in patient care environment.



DOCTOR OF PHARMACY (PHARM.D) PROGRAMME

The Pharm.D programme at Faculty of Pharmacy, Ziauddin University aims to produce pharmacists who have the abilities and skills which are necessary to achieve outcomes related to:

- Providing Pharmaceutical care to patients.
- Developing and managing medication distribution and control systems.
- Monitoring drug response in patients and adjusting dosage regimens to produce the safest, most beneficial results in therapy
- Managing the pharmacy
- Promoting public health
- Providing drug information and education
- Providing technical aid to Pharmaceutical industry and solving problems pertinent to the manufacturing of medicines
- Reviewing products evaluated for formulary consideration
- Evaluating policies, procedure, protocols and clinical pathways to ensure safe use of medications
- Analysing quality assurance activities to ensure that improvements are implemented to produce positive patient outcomes

ELIGIBILITY CRITERIA

The candidate should have passed the Intermediate Science (HSC) Examination (Medical/Biology Group) securing at least 60 % marks in aggregate from the Board of Higher Secondary Education in Pakistan or any other examination of a Foreign University which in scope and standard is found equivalent to the HSSC Examination (Medical Group), Pakistan.

ADMISSION POLICY

The programme is open to all individuals who meet the selection criteria. All candidates are selected on merit according to the following criteria:

Examination/interview Weightage

HSSC: 50%

Entry Test: 30%

Interview: 20%

Note: It is the responsibility of the applicant to submit the application according to instructions given with the application form.

FEE STRUCTURE

1st Semester

Admission Fee (Non Refundable)	Rs. 60,000 /-
Tuition Fee (per semester)	Rs. 200,400 /-
Semester Examination Fee	Rs. 6,500 /-
Other Charges	
Security Deposit (Refundable)	Rs. 25,000 /-
Medical Examination Fee	Rs. 3,500 /-
Student Activity Fee	Rs. 2,000 /-
Documentation Fee	Rs. 4,000/-
CD of Study Guide Book	Rs. 400/-
Registration Fee (Pharmacy Council)	Rs. 1,000/-
Total Other Charges	Rs. 35,900/-
1st Semester Fee	Rs. 302,800

2nd Semester

Tuition Fee (per semester)	Rs. 200,400/-
Semester Examination Fee	Rs. 6,500 /-
2nd Semester Fee	Rs. 206,900

Note:

The University reserves the right to increase the fees if required according to the recommendation of the Governing Body.

Advance fees to be paid semester-wise. All dues need to be cleared within two weeks of commencement of the academic year. 2% surcharge per month will be levied on outstanding fees after the due date.

FINANCIAL ASSISTANCE

Financial Assistance is provided to the needy and meritorious students with a good GPA, conduct and not having undergone any resit examination. It is awarded from 2nd Professional onwards.



SCHEME OF STUDY

Scheme of Courses for Pharm. D. (Five-Year Course)

1st Professional Pharm. D

1 st Semester			2 nd Semester		
Course No.	Subject (Theory Courses)	Cr. Hr.	Course No.	Subject (Theory Courses)	Cr. Hr.
ENG 300	English-A (Functional English)	03	ENG 301	English-B (Communication & Writing skills)	03
PHARM 310	Pharmaceutics-IA (Physical Pharmacy) Th.	03	PHARM 315	Pharmaceutics-IB (Physical Pharmacy) Th.	03
PHARM 311	Pharmaceutical Chemistry-IA (Organic) Th.	03	PHARM 316	Pharmaceutical Chemistry-IB (Organic) Th.	03
PHARM 312	Pharmaceutical Chemistry-IIA (Biochemistry) Th.	03	PHARM 317	Pharmaceutical Chemistry-IBB (Biochemistry) Th.	03
PHARM 313	Physiology-A Th.	03	PHARM 318	Physiology-B Th.	03
PHARM 314	Anatomy & Histology Th.	03	PHARM 328	Introduction to Clinical Pharmacy Th.	03
Course No.	Subject (Lab Courses)	Cr. Hr.	Course No.	Subject (Lab Courses)	Cr. Hr.
PHARM 319	Pharmaceutics-IA (Physical Pharmacy) Lab.	01	PHARM 324	Pharmaceutics-IB (Physical Pharmacy) Lab.	01
PHARM 320	Pharmaceutical Chemistry-IA (Organic) Lab.	01	PHARM 325	Pharmaceutical Chemistry-IB (Organic) Lab.	01
PHARM 321	Pharmaceutical Chemistry-IIA (Biochemistry) Lab.	01	PHARM 326	Pharmaceutical Chemistry-IBB (Biochemistry) Lab.	01
PHARM 322	Physiology-A Lab.	01	PHARM 327	Physiology-B Lab.	01
PHARM 323	Anatomy & Histology Lab.	01	Total Cr. Hr. 22		
Total Cr. Hr. 23					

2nd Professional Pharm. D

1 st Semester			2 nd Semester		
Course No.	Subject (Theory Courses)	Cr. Hr.	Course No.	Subject (Theory Courses)	Cr. Hr.
IS 402	Islamic Studies	03	PS 403	Pakistan Studies	02
PHARM 410	Pharmaceutics-IIA (Dosage Forms Science)Th.	03	PHARM 415	Pharmaceutics-IBB (Dosage Forms Science)Th.	03
PHARM 411	Pharmaceutics-IIIA (Pharmaceutical Microbiology & Immunology)Th.	03	PHARM 416	Pharmaceutics-IBB (Pharmaceutical Microbiology & Immunology)Th.	03
PHARM 412	Pharmacology and Therapeutics-IA Th.	03	PHARM 417	Pharmacology and Therapeutics-IB Th.	03
PHARM 413	Pharmacognosy-IA (Basic) Th.	03	PHARM 418	Pharmacognosy-IB (Basic) Th.	03
PHARM 414	Pharmacy Practice-IA (Pharmaceutical Mathematics)	03	PHARM 419	Pharmacy Practice-IB (Bio-statistics)	03
Course No.	Subject (Lab Courses)	Cr. Hr.	Course No.	Subject (Lab Courses)	Cr. Hr.
PHARM 420	Pharmaceutics-IIA (Dosage Forms Science) Lab.	01	PHARM 424	Pharmaceutics-IBB (Dosage Forms Science) Lab.	01
PHARM 421	Pharmaceutics-IIIA (Pharmaceutical Microbiology & Immunology) Lab.	01	PHARM 425	Pharmaceutics-IBB (Pharmaceutical Microbiology & Immunology) Lab.	01
PHARM 422	Pharmacology and Therapeutics-IA Lab.	01	PHARM 426	Pharmacology and Therapeutics-IB Lab.	01
PHARM 423	Pharmacognosy-IA (Basic) Lab.	01	PHARM 427	Pharmacognosy-IB (Basic) Lab.	01
Total Cr. Hr. 22			Total Cr. Hr. 21		

3rd Professional Pharm. D

1 st Semester			2 nd Semester		
Course No.	Subject (Theory Courses)	Cr. Hr.	Course No.	Subject (Theory Courses)	Cr. Hr.
PHARM 510	Pharmacy Practice-IIA (Dispensing Pharmacy) Th.	03	PHARM 515	Pharmacy Practice-IBB (Community Social & Administrative Pharmacy)Th.	03
PHARM 511	Pharmaceutical Chemistry-III A (Pharmaceutical Analysis) Th.	03	PHARM 516	Pharmaceutical Chemistry-III B (Pharmaceutical Analysis) Th.	03
PHARM 512	Pharmacology and Therapeutics-IIA Th.	03	PHARM 517	Pharmacology and Therapeutics-IBB Th.	03
PHARM 513	Pharmacognosy-IIA (Advanced) Th.	03	PHARM 518	Pharmacognosy-IBB (Advanced) Th.	03
PHARM 514	Pathology Th.	03	PHARM 519	Pharmacy Practice-III (Computer and its Applications in Pharmacy) Th.	03
Course No.	Subject (Lab Courses)	Cr. Hr.	Course No.	Subject (Lab Courses)	Cr. Hr.
PHARM 520	Pharmacy Practice-IIA (Dispensing Pharmacy) Lab.	01	PHARM 525	Pharmaceutical Chemistry-III B (Pharmaceutical Analysis) Lab.	01
PHARM 521	Pharmaceutical Chemistry-III A (Pharmaceutical Analysis) Lab.	01	PHARM 526	Pharmacology and Therapeutics-IBB Lab.	01
PHARM 522	Pharmacology and Therapeutics-IIA Lab.	01	PHARM 527	Pharmacognosy-IBB (Advanced) Lab.	01
PHARM 523	Pharmacognosy-IIA (Advanced) Lab.	01	PHARM 528	Pharmacy Practice-III (Computer and its Applications in Pharmacy) Lab.	01
PHARM 524	Pathology Lab.	01	Total Cr. Hr. 19		
Total Cr. Hr. 20					

4th Professional Pharm. D

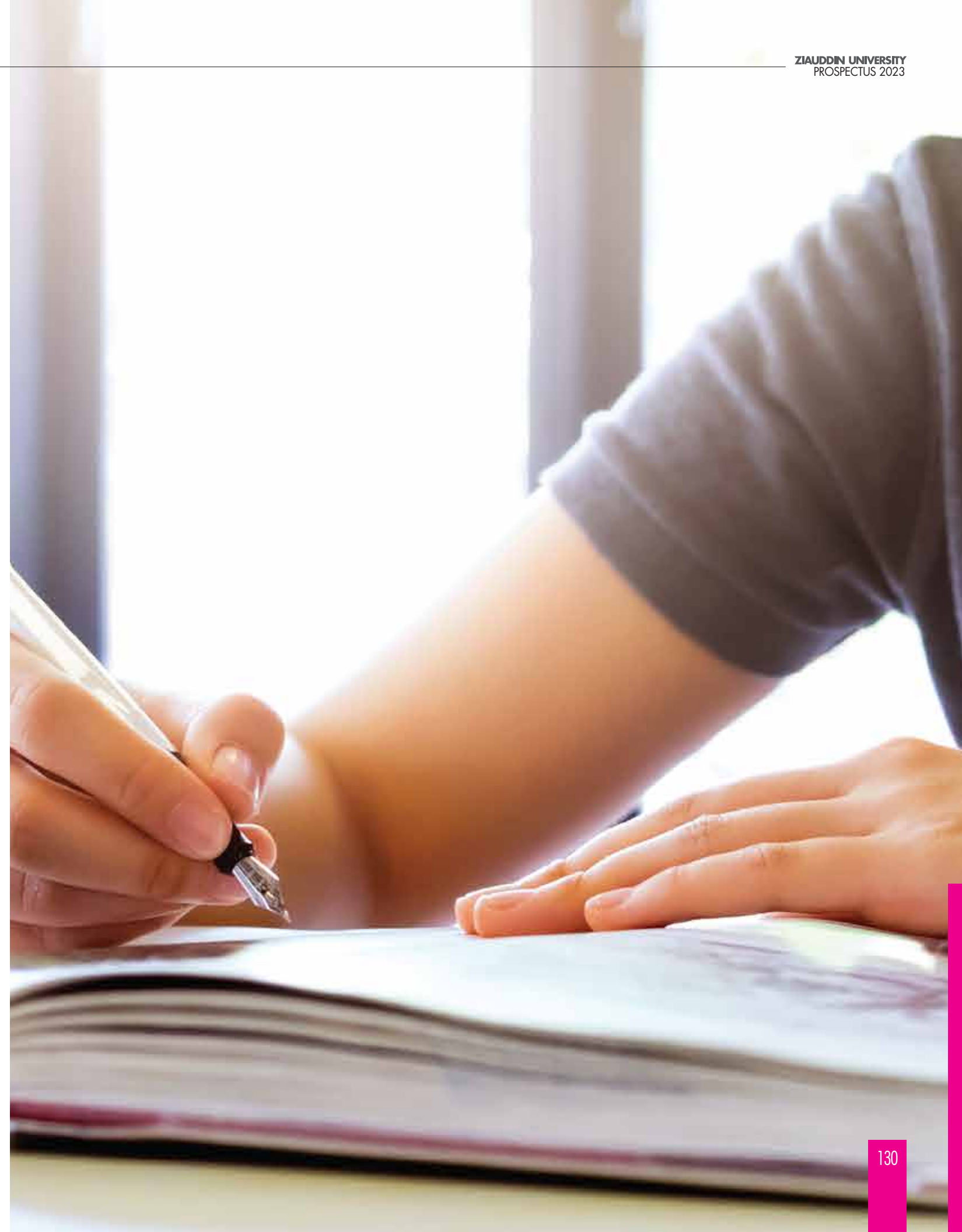
1 st Semester			2 nd Semester		
Course No.	Subject (Theory Courses)	Cr. Hr.	Course No.	Subject (Theory Courses)	Cr. Hr.
PHARM 610	Pharmacy Practice-IVA (Hospital Pharmacy) Th.	03	PHARM 615	Pharmacy Practice-IVB (Hospital Pharmacy) Th.	03
PHARM 611	Pharmacy Practice-VA (Clinical Pharmacy-I) Th.	03	PHARM 616	Pharmacy Practice-VB (Clinical Pharmacy-I) Th.	03
PHARM 612	Pharmaceutics-IVA (Industrial Pharmacy) Th.	03	PHARM 617	Pharmaceutics-IVB (Industrial Pharmacy) Th.	03
PHARM 613	Pharmaceutics-VA (Biopharmaceutics & Pharmacokinetics) Th.	03	PHARM 618	Pharmaceutics-VB (Biopharmaceutics & Pharmacokinetics) Th.	03
PHARM 614	Pharmaceutics-VIA (Pharmaceutical Quality Management) Th.	03	PHARM 619	Pharmaceutics-VIB (Pharmaceutical Quality Management) Th.	03
PHARM 628	Pharmacognosy-III (Clinical) Th.	02	Course No.	Subject (Lab Courses)	Cr. Hr.
Course No.	Subject (Lab Courses)	Cr. Hr.	PHARM 624	Pharmacy Practice-VB (Clinical Pharmacy-I) Lab.	01
PHARM 620	Pharmacy Practice-VA (Clinical Pharmacy-I) Lab.	01	PHARM 625	Pharmaceutics-IVB (Industrial Pharmacy) Lab.	01
PHARM 621	Pharmaceutics-IVA (Industrial Pharmacy) Lab.	01	PHARM 626	Pharmaceutics-VB (Biopharmaceutics & Pharmacokinetics) Lab.	01
PHARM 622	Pharmaceutics-VA (Biopharmaceutics & Pharmacokinetics) Lab.	01	PHARM 627	Pharmaceutics-VIB (Pharmaceutical Quality Management) Lab.	01
PHARM 623	Pharmaceutics-VIA (Pharmaceutical Quality Management) Lab.	01	Total Cr. Hr. 19		
Total Cr. Hr. 21					

5th Professional Pharm. D

1 st Semester			2 nd Semester		
Course No.	Subject	Cr. Hr.	Course No.	Subject	Cr. Hr.
PHARM 710	Pharmaceutics-VIIA (Pharmaceutical Technology)Th.	03	PHARM 715	Pharmaceutics-VIIB (Pharmaceutical Technology)Th.	03
PHARM 711	Pharmacy Practice-VIA (Advanced Clinical Pharmacy-II) Th.	03	PHARM 716	Pharmacy Practice-VIIB (Advanced Clinical Pharmacy-II) Th.	03
PHARM 712	Pharmacy Practice-VIIA (Forensic Pharmacy) Th.	03	PHARM 717	Pharmacy Practice-VIIB (Forensic Pharmacy) Th.	03
PHARM 713	Pharmacy Practice-VIIIA (Pharmaceutical Management & Marketing) Th.	03	PHARM 718	Pharmacy Practice-VIIB (Pharmaceutical Management & Marketing) Th.	03
PHARM 714	Pharmaceutical Chemistry-IVA (Medicinal Chemistry) Th.	03	PHARM 719	Pharmaceutical Chemistry-IVB (Medicinal Chemistry) Th.	03
Course No.	Subject (Lab Courses)	Cr. Hr.	Course No.	Subject (Lab Courses)	Cr. Hr.
PHARM 720	Pharmaceutics-VIIA (Pharmaceutical Technology)Lab.	01	PHARM 723	Pharmaceutics-VIIB (Pharmaceutical Technology)Lab.	01
PHARM 721	Pharmacy Practice-VIA (Advanced Clinical Pharmacy-II) Lab.	01	PHARM 724	Pharmacy Practice-VIIB (Advanced Clinical Pharmacy-II) Lab.	01
PHARM 722	Pharmaceutical Chemistry-IVA (Medicinal Chemistry) Lab.	01	PHARM 725	Pharmaceutical Chemistry-IVB (Medicinal Chemistry) Lab.	01
Total Cr. Hr. 18			Total Cr. Hr. 18		

Pharm.D Five-Year Credit Hours Summary

Pharm. D	1 st Semester	2 nd Semester	Total
Professional	Cr. Hr.	Cr. Hr.	Cr. Hr.
1 st	23	22	45
2 nd	22	21	43
3 rd	20	19	39
4 th	21	19	40
5 th	18	18	36
Total Credit Hours	104	96	203



LEARNING AND TEACHING STRATEGIES

The following learning methods/strategies are used to promote better understanding;

- PBL (Problem Based Learning)
- Lectures
- Practical
- Assignments
- Presentations/Seminars
- Field visits
(Clinical Training/Pharmaceutical Industries)

STUDENT ASSESSMENT METHODS

- Written and practical examinations.
- Student log books or written reports
- Viva Voce
- Group or individual presentations
- Short answer written papers
- MCQs

REGULAR SEMESTER EXAMINATION

It consists of the following;

• Internal Continuous Assessment Tests:

Each course per semester carries 60 marks, which is marked as following:

- Midterm Exams 20 marks
- Quizzes/Class Tests 20 marks
- Assignments/Presentations 20 marks

Final Semester Examination:

It is conducted by the Examination Department of Ziauddin University and held at the end of each semester. It carries 40 marks of each course.

WINTER SEMESTER

A student who has either failed or has been stopped from taking the examination due to a shortage of attendance or to improve his/her grade is allowed to register for the winter semester.

Winter semester will be offered as an optional semester of eight weeks duration. Students will be offered courses to remove deficiencies or pass the courses, and they may register for up to 9 credit hours. The course in the winter semester will be offered with a minimum course registration of three students. In case of a smaller number of students, they will be admitted in the next year's winter semester.

Repeating Courses/Improvement of CGPA

If a student receives an "F" grade, he/she will be required to repeat the particular course in the winter semester. However, the F grade obtained earlier will be mentioned on the transcript. Undergraduate students may be allowed to repeat the course in which he/she has obtained grade C or below. Under such circumstances, both the grades will be displayed on the transcript. However, only the improved grade shall be used in the calculation of the CGPA.

In the case of CGPA improvement, the grade would be recorded with 'imp' on the transcript.

GRADE & GRADE POINT

Grade	Grade Point	% Equivalence	Remarks
A	3.67 – 4.00	85 and above	
A-	3.34 – 3.66	80 – 84	
B+	3.01 – 3.33	75 – 79	
B	2.67 – 3.00	71 – 74	
B-	2.34 – 2.66	68 – 70	
C+	2.01 – 2.33	64 – 67	
C	1.67 – 2.00	61 – 63	
C-	1.31 – 1.66	58 – 60	
D+	1.01 – 1.30	54 – 57	
D	0.10 – 1.00	50 – 53	
F	0.00	Below 50	
I (Incomplete)	0.0	-	Did not complete as mentioned 15.5/-15.68 *
W (Withdrawl)	0.0	-	Withdrawal from the course is allowed till the 6th week of semester. At the 6th week, students will be awarded F Grade
X (Exempted)	0.0	-	In case migration from other institution or studied courses in exchange programme **

ELIGIBILITY FOR SEMESTER EXAMINATION

A cumulative attendance report of seventeen weeks (one semester) is displayed at the end of the semester. A student has to secure 80% attendance in each course (Theory & Lab.) to appear in the semester examination. Students who have attendance between 75% to 79% in any course will be eligible to appear in the regular semester examination after submitting assignment(s) to concerned course incharge(s).

Attendance will be marked on CMS and eligibility will be generated accordingly from CMS.

ELIGIBILITY FOR WINTER SEMESTER

1. If a student fails in any course in the semester, she/he can enroll in winter semester.
2. Students having below 75% attendance will be eligible to appear in winter semester.

POLICY FOR REPEATING THE YEAR

Students with less than 65% attendance in any course will not be eligible to appear in the Winter Semester and will have to repeat the year.

REQUIREMENT FOR THE AWARD OF PHARM.D

- A student must have passed all prescribed courses of Pharm.D Programme.
- A student must have obtained a minimum 2.45 Cumulative Grade Point Ratio (CGPR).
- In case a student obtained less than 2.45 CGPA at the end of the final semester, he/she may be allowed to get readmission in one or more courses in which obtained grade is below C, provided he/she is not debarred under the CGPA improvement or is within the specified time duration.

GOLD MEDAL

At the time of the convocation, a Gold Medal, "Sir Ziauddin Gold Medal" is awarded by Ziauddin University to a student achieving highest CGPR but not less than 3.4 CGPR in Pharm.D.

The candidate will not qualify for Gold Medal even if he/she has achieved the highest CGPR, if he/she has appeared in the winter semester or grade improvement exams.

CO-CURRICULAR ACTIVITIES

Students of Faculty of Pharmacy, Ziauddin University are lucky to be a part of an institute with the large set-up of hospitals & clinical practice. To make best use of this opportunity, we have given much emphasis on the clinical side of the profession which is the very soul of Pharm.D programme. This is a requirement of the curriculum as approved by Pharmacy Council of Pakistan. This training also provides a better chance of learning and practicing the skills in these fields. No Pharmacy institution in the country has such an ideal situation for the training as Ziauddin University has.

CLINICAL TRAINING

This training enables these future Pharmacists to play a vital role in the improvement of quality of healthcare in our society. This will bring a unique difference between its graduates and graduates of other Pharmacy institutions of the country. It will not be out of place to mention that Pharm.D is a patient oriented programme rather than product oriented four-year B.Pharm degree of the past. Students of 4th & 5th professionals complete this training in Pharmaceutical service centres of Ziauddin Hospitals (In-patient pharmacy, emergency room pharmacy, ambulatory dispensing area, bulk store, out-patient pharmacy, satellite pharmacy) and different wards like Medical ICU, Cardiac care unit, Neonatal care unit, cardiac ward, Neuro./Psychiatry ward, Gastroenterology ward, Gynaecology ward, Paediatric ward, Dialysis centre. This training is conducted at all three sites of Dr. Ziauddin Hospital i.e. North Nazimabad, Clifton & Kemari (KDLB).

The main objectives of clinical training are:

- To develop students' communication skills for effective interaction with patients and with practitioners of other health professions
- To help students develop a patient awareness in the practice of Pharmacy
- To enable students to integrate the knowledge acquired in course work prior to clinical exposure, and to apply it to the solution of real problems, and to help students become more aware of the general methods of diagnosis and patient care specifically related to drug therapy.

COMMUNITY PHARMACY TRAINING AT ZIAUDDIN

Community pharmacy training programmes focused on advancing skills in direct patient care, patient care service development and practice management. This is the unique training programme offered by Ziauddin Faculty of Pharmacy, not available anywhere else in Pakistan. Following are the main objectives of our community training:

- To produce professionally competent pharmacists.
- To serve the community as a drug specialist.
- To enable the students to have sound knowledge and practical exposure to;
 - i. Community Pharmacy and its organisation.
 - ii. Epidemiology and its control.
- To educate and counsel the patient.
- To control drug abuse and misuse.
- To control drug inventory.
- To develop a better understanding of principles of health promotion and patient care programmes such as immunisation in community.

PHARMACY RESIDENCY PROGRAMME

In order to expand graduates' professional skills and to develop a patient oriented attitude, one year Pharmacy Practice Residency programme has been started in the clinical and hospital pharmacy. This is a one year training programme for the graduate of Ziauddin Faculty of Pharmacy. The programme aims to provide professional experience in different fields of pharmacy practice such as inpatient pharmacy,

outpatient pharmacy, oncology pharmacy, nutrition pharmacy etc.

At the end of this programme, certificates are awarded to graduates who successfully complete the programme. During the residency period a reasonable stipend is also given to the trainees. This is the only institution of Pakistan which offers such specialised training programme based on Pharmaceutical care system.

INDEPENDENT CLINICAL PHARMACY ROUNDS

The objective of this programme is to ensure rational use of medicines in Dr. Ziauddin Hospital. It allows the clinical pharmacy faculty to specialise in clinical pharmacy practice and developing clinical skills such as patient profile review, drug information, patient medication history and discharge patient counselling.

EXTRACURRICULAR ACTIVITIES

Students of Pharmacy always remain at the forefront in organizing activities of academic & non academic nature. These activities include

- Annual Pakistan Tour
- Inter and intra departmental sports Competitions
- Inter and Intra departmental debate competitions.
- Donation Drives
- Annual picnic
- Annual Dinner
- Recruitment drives

Under the patronage of Student Advisor various clubs/societies have been formulated to facilitate student's activities in many aspects, which are as under;

- Community Welfare Society
- Leisure Club
- Literary Society
- Scientific Club
- Sports Club
- Alumni Club

INDUSTRIAL VISITS

Industrial tours to different pharmaceutical industries are arranged frequently to make the students aware of the students with basic practices of manufacturing, quality control and quality assurance of medicines. These tours enable the students to relate their theoretical knowledge with different unit operations involved in dosage forms manufacturing and different QC and QA techniques to maximise the product quality.

CAREER OPPORTUNITIES

Pharmacy offers a challenging, satisfying and rewarding career to the individual whose interest lies in health services, business, scientific research, university teaching and hospital practice. Pharmacists advise their patients, and other health practitioners in the selection of, dosages, drug-drug interactions, and side effects of medications, as well as monitor the health and progress of patients to ensure that they are using their medications safely and effectively.

Areas where services of pharmacists are required include;

- Hospital Pharmacy/Clinical Pharmacy
- Pharmaceutical Industry
- Community Pharmacy
- Academia
- Pharmaceutical Marketing
- Drug control administration
- Research & Development
- Armed Forces
- Regulatory Authorities

Many opportunities for pharmacists with Pharm.D degree are available in U.S.A, Canada, Australia & Middle East.

M.Phil AND Ph.D PROGRAMME

This programme is designed to prepare students for teaching and research careers in academia, the pharmaceutical industry, hospitals and research institutes. Students are expected to select an area of specialisation from one of the pharmaceutical science disciplines including Pharmacology, Pharmaceutical Chemistry, Pharmaceutics, Pharmacognosy and Pharmacy Practice.

The M.Phil and Ph.D programme consists of course work, presentations, research and publications. The objective of the programme is to provide a thorough understanding of the subject. In addition, students can choose from a variety of elective courses that allow them to gain knowledge and skills which may be used for a career of independent research and teaching in pharmacy for academic institutions, industrial laboratories, hospital or government research and administrative agencies.

The University places emphasis on excellence in research, making every effort to ensure that students are able to commit as much time as possible to their research projects, which allows them to earn the M.Phil or Ph.D degree in a timely fashion.

MISSION STATEMENT

"The mission of M.Phil/Ph.D. programme at Faculty of Pharmacy is to produce high calibre postgraduates with exceptional academic, research and leadership skills in basic, applied and professional disciplines of pharmaceutical sciences by providing them with high quality and competitive learning and research environment. This will enhance their knowledge, enlighten them to foster innovation and train them to meet their respective intra-disciplinary as well as cross-disciplinary challenges on the frontiers of pharmaceutical sciences."

DISCIPLINES OFFERED

M.Phil

- Pharmacology
- Pharmaceutics
- Pharmaceutical Chemistry
- Pharmacognosy
- Pharmacy Practice

Ph.D

- Pharmacology
- Pharmaceutics
- Pharmaceutical Chemistry

- Pharmacognosy
- Pharmacy Practice

ADMISSION POLICY

The admission for post graduate degree programmes (MPhil and Ph.D) is announced once an academic year. Strong adherence to governing HEC rules is observed at the time of admission. All candidates are selected on merit following evaluation of academic record and interview.

ELIGIBILITY CRITERIA

For MPhil Programme

Pharm.D degree from any HEC recognised university. Candidates must have passed NTS GAT exam or Entry Test of ZU with 50% marks.

For Ph.D Programme

MPhil/M.S/Equivalent Degree in relevant field of Pharmacy from any HEC recognised university with minimum CGPA 3.0 (out of 4.0 in semester system) or First Division (in annual system) and must meet all admission criteria of HEC, candidates must passed GAT Subjective (NTS or university based with minimum cumulative score of 60% or 70% respectively).

FEE STRUCTURE

M.Phil

Admission Fees:	Rs. 32,000/-
Tuition Fees (per semester):	Rs. 120,000/-
Semester Exam (per semester):	Rs. 5,750/-
Thesis Defense:	Rs. 50,000/-

Ph.D

Admission Fees:	Rs. 32,000/-
Tuition Fees (per semester):	Rs. 120,000/-
Semester Exam (per semester):	Rs. 5,750/-
Thesis Defense:	Rs. 100,000/-

Note: Any additional taxes imposed by the government will be the liability of the students/parents/guardian.

The University reserves the right to increase the fees if required according to the recommendation of the Governing Body.

Advance fees to be paid semester-wise. All dues need to be cleared within two weeks of commencement of the academic year. 2% surcharge per month will be levied on outstanding fees after the due date.

LEARNING AND TEACHING STRATEGIES

- Course work in the respective field of specialisation will enable students to comprehend central issues or problems in the field.
- Discussion on the sources of literature will enable students to develop the skills to select, read and survey the recent developments in any particular area of research.
- Assignments including term papers on various research topics to be prepared by students during the course work.
- Participation in the journal club on weekly basis.
- Presentations of research papers at a journal club.
- Preparation and presentation of synopsis for the thesis.
- Carrying out research projects in participation with other students as a part of assignments.
- Leading undergraduate students in research as a project or getting them involved in their own research project.
- Presentations of posters in conferences and symposia.
- Presentations in symposia and conferences of research work.
- Writing research papers and publications in national and international journals.

SEMESTER SUMMARY

Pharmaceutics: The students will learn the advanced level the immunity, infection, virology, microbial control and antimicrobial agent. The application of Pharmacokinetics and Pharmaceutical Biotechnology in the field of Pharmacy is taught along with the advanced level of the physical & biological principles which apply to the design, development, and evaluation of drug delivery systems.

Pharmacology: This subject deals with advance Pharmacokinetics and Pharmacodynamics knowledge of drugs, therapeutic study of the cardiovascular system, therapeutic modalities to treat cancer and management of antimicrobial therapy, study of common toxicity syndromes and standard protocols and pharmacology of derived autacoids.

Pharmacognosy: The programme focuses on the biosynthesis of secondary metabolites, isolation, purification, and characterization of natural compounds. The programme also includes research methodologies, experimental design, and statistical analysis, and equips students with the skills to plan and execute experiments and analyses research findings. The programme emphasizes the management of diseases using herbal medicines. Additional-

ly, students develop a research proposal that undergoes evaluation and approval before conducting original research presented in the form of a dissertation or thesis.

Pharmaceutical Chemistry: The curriculum for the M.Phil. & Ph.D. in Pharmaceutical Chemistry aims to strengthen and formalize students' extensive foundational knowledge and skills in the areas of drug design, stability, nanochemistry, chromatographic and electrochemical techniques, natural products and phytochemistry, spectrophotometric analysis and elucidation, synthesis of active pharmaceutical ingredients, advanced organic and medicinal chemistry, and targeted synthesis by computer-aided drug design.

Pharmacy Practice: The Pharmacy Practice programme will cater the needs of the clinical, hospital, industrial and retail pharmacy set up. Pharmacy Practice programme is a post graduate programme which is first of its kind in Pakistan that would offer the masters a platform to develop advanced skills and knowledge which can be applied for the betterment of their profession and healthcare. It would help in equipping the practicing pharmacists with the skills to progress into higher level clinical roles within healthcare organizations. Pharmacy Practice would be able to develop valuable practical skills including written and oral communication, and the ability to design a project, collect, analyze and interpret data.

Pharmaceutical Biostatistics: This course focuses on practical areas of statistics applied to pharmacy and pharmaceutical sciences Sample and Population, Test of Hypothesis and significance, Test involving binomial and normal distribution, Student "t", "Z" and "F" distribution, analysis of variance, Experimental Designs, Basic Principles, completely randomized (CR- designs), Randomized complete block designs, Latin square etc. Correlation/regression analysis, introduction of SPSS.

Research Methodology & Clinical Trials: This course will develop the skills to select, read and survey the recent developments in any particular area of research.

Computer Application in Research: This course enables research scholars to analyze data and interpret the outputs of various software tools for research methodology. This also helps them to design research models and simulators.

Research Ethics: This course will help the

students to learn about various features while doing research because research ethics will cover different areas of fundamental research.

ATTENDANCE

Minimum 75 % attendance in a course is required to appear in the examination of that course.

EXAMINATION

In each semester, students may be required to appear in quizzes, tests, mid-semester, final semester examinations, presentations (individual/group), group discussion, and submit projects/assignments/lab reports, studio work etc. These assessment marks (to be determined by the teacher concerned) will have different weightage contributing towards the overall assessment in percent marks. This weightage may be determined on the basis of the following table:

COURSE SUBJECT MARKS DISTRIBUTION

Sr.No	Description	Theory of Max. 100 Marks	
		Marks Distribution	
i.	Continuous Assessment		
	• Quizzes/Class Test(s)		10
	• Class Clinical Assignments/Project Presentation		10
	• Mid Semester Exam		30
ii.	Final Semester Exam:		50
	Total Marks		100

GRADE & GRADE POINT

Grade	Grade Point	% Equivalence	Remarks
A	3.67 – 4.00	85 and above	
A-	3.34 – 3.66	80 – 84	
B+	3.01 – 3.33	75 – 79	
B	2.67 – 3.00	71 – 74	
B-	2.34 – 2.66	68 – 70	
C+	2.01 – 2.33	64 – 67	
C	1.67 – 2.00	61 – 63	
C-	1.31 – 1.66	58 – 60	
D+	1.01 – 1.30	54 – 57	
D	0.10 – 1.00	50 – 53	
F	0.00	Below 50	
I (Incomplete)	0.0	-	Did not complete as mentioned 15.5/-15.68 *
W (Withdrawl)	0.0	-	Withdrawal from the course is allowed till the 6th week of semester. At the 6th week, students will be awarded F Grade
X (Exempted)	0.0	-	In case migration from other institution or studied courses in exchange programme **

CGPA REQUIRED FOR THE COMPLETION OF POSTGRADUATE PROGRAMME - M.Phil/Ph.D

1. For completion of Ph.D degree, the minimum qualifying CGPA is 3.00 (For M.Phil 2.50).
2. In case a student secures less than 3.00 CGPA (2.50 for M.Phil) (minimum qualifying CGPA) at the end of final Semester, she/he may be allowed to get re-admission in one or more courses, in which his/her grade is C or below, provided that she/he is not debarred under the CGPA Improvement and time duration specified for the programme.

WINTER SEMESTER

1. Winter semester will be offered as an optional semester of 8 weeks duration. Students will be offered courses to remove deficiencies and can register up to 9 credit hours for the winter semester.
2. Moreover, a student who has either failed or has been stopped to take the examination due to a shortage of class attendance or wishes to improve his/her grade is allowed to register in the winter semester.
3. The contact hours per week during the Winter Semester will be doubled to ensure that the course is completely taught in a winter session with half of the duration as compared to a regular (Fall/Spring) semester.
4. All the qualifying rules for the Fall/Spring semester will be applicable to the winter semester.
5. The course in the winter semester will be offered with the minimum course registration of

03 students (where intake of students is small, minimum course registration should be 50%, failure students)

6. In case of less number of students, the student will be admitted in next year winter semester.

CAREER OPPORTUNITIES

- A postgraduate qualification can enhance the career and earning prospects, and sets apart from other students who only hold an undergraduate degree.
- Postgraduate studies will enable a student to operate effectively at a senior level and go on to successful careers in business, industry and academia.
- Postgraduate study can also equip a student with the knowledge and skills, anyone need to move into a different profession.
- It is the pathway to an academic career.

Areas where Postgraduate students can serve are;

- R&D sectors/firms involved in Drug Designing, Pharmaceutical Product Development and Medicine related researches like Clinical trials, Pharmacovigilance, Pharmacokinetics/Pharmacodynamics studies.
- Individual Entrepreneurs like consultants/advisors (Training/Workshops/Consultancy/Publishing etc)
- Pharmaceutical Industrial sector
- Regulatory Bodies/Authorities (Drug Regulatory Authority of Pakistan, MOH, Drug Control Administration.)



FACULTY MEMBERS

DEAN FACULTY OF PHARMACY

PROF. DR. NUDRAT FATIMA
B. PHARM., M. PHIL., PH.D.
(PHARMACOGNOSY, K.U), R. PH.

DEPARTMENT OF PHARMACEUTICS

PROFESSOR & ADVISOR TO CHANCELLOR

DR. ANWAR EJAZ BEG
B.SC. (HONS.), M.SC., M.PHIL. (K.U),
PH.D. (ENGLAND)

PROFESSORS

DR. ADEEL ARSALAN
B. PHARM., (B.M.U), M. PHARM., (K.U),
PH.D. (B.M.U), R.PH.

DR. ZEB-UN-NISA
B. PHARM., M.PHIL., PH.D. (K.U), R.PH.

ASSOCIATE PROFESSORS

DR. SHAZIA ALAM (HOD)
B. PHARM., M.PHARM., PH.D. (K.U), R.PH.

DR. MAQSOOD AHMED KHAN
B. PHARM., M. PHARM. (K.U), MBA (PAF KIET),
PH.D. (K.U), R.PH.

DR. SYED IMRAN ALI
B. PHARM., M.PHARM., PH.D. (K.U), R.PH.

ASSISTANT PROFESSORS

DR. MARIA ASHFAQ
PHARM. D., M.PHIL. (Z.U), R.PH.

DR. MEHWISH MURAD
PHARM. D, M. PHIL. (Z.U), R.PH.

DR. SYED ADEEL AHMED SHAH
PHARM.D. M.PHIL (UNI. of SINDH).
PH.D., ENROLLED (UNI. of SINDH), R.PH.

LECTURERS

DR. SIDRA HASSAN
PHARM. D, (DUHS), M. PHIL. (Z.U), R.PH.

DR. JAVERIA AMEER
PHARM. D, M. PHIL. (K.U), R.PH.

DR. NIDA GHANI
PHARM. D. (Z.U), R.PH.

DR. FAIZA KHAN
PHARM. D. (K.U), R.PH.

DEPARTMENT OF PHARMACOGNOSY PROFESSOR

DR. AMBREEN HUMA (HOD)
B. PHARM., PH.D. (K.U), R.PH.

ASSISTANT PROFESSOR

DR. AHMED SHAHID MIRZA
B.PHARM. (H.U), PHARM.D. (F.U.U.A.S.T), R.PH.

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

PROFESSOR

DR. AMIR HASSAN
B. PHARM., M.PHARM., PH.D, (K.U), R.PH

ASSISTANT PROFESSORS

DR. HUMA PIRZADA (INCHARGE)
B. PHARM., M.PHARM., PH.D, (K.U), R.PH.

DR. SYEDA UROOS QAZI
PHARM. D, M. PHIL, PH.D, (K.U), R.PH.

DR. FAIZA AKHTAR
PHARM. D., M.PHIL (J.U.W), R.PH.

LECTURERS

DR. HIRA ARIF
PHARM. D, M. PHIL. (K.U), R.PH.

DR. NAZIA TABASSUM
PHARM. D, M. PHIL. (K.U), R.PH.

DR. HIRA ARIF
PHARM. D, M. PHIL. (K.U), R.PH.

DR. QURAT UL AEN ISMAIL
PHARM. D, (JMDC), R.PH.

DEPARTMENT OF PHARMACY PRACTICE

ASSOCIATE PROFESSORS

DR. ARIF SABAH (HOD)
B. PHARM., PHARM. D., M. PHIL., PH.D.
(B.M.U.),
MBA (MAJU), R.PH.

DR. MIRZA TASAWER BAIG
PHARM. D., M.PHIL. (F.U.U.A.S.T),
PH.D. (Z.U), R.PH.

ASSISTANT PROFESSORS

DR. SHAZMA BASHIR
PHARM.D, (KU), MS., PH.D. (UNI. OF EAST
LONDON), R.PH.

DR. SIDRA TANWIR
B. PHARM., PHARM.D (K.U), M.PHIL (Z.U), R.PH.

DR. SAMINA SHEIKH
PHARM.D. (J.U.W), M.PHIL. (B.M.U), R.PH.

DR. RASHEEDA FATIMA
PHARM. D, M. PHIL. (Z.U), R.PH.

SENIOR LECTURER

MS. SHEHLA SIDDIQUI
B.SC. (HONS), M.SC. (K.U)

LECTURER

DR. NAYEL SYED
PHARM. D, M. PHIL. (Z.U), R.PH

DEPARTMENT OF PHARMACOLOGY PROFESSOR

DR. GHULAM ABBAS (HOD)
B. PHARM., PH.D. (K.U), R.PH.

ASSOCIATE PROFESSORS

DR. SADAF IBRAHIM
B. PHARM., M. PHARM. (K.U), PH.D. (B.M.U),
R.PH.

DR. UZAIR NISAR
B. PHARM. (IUB), M. PHIL. (BZU), PH.D. (K.U),
R.PH.

ASSISTANT PROFESSORS

MS. SADIA KASHIF
B. PHARM., M. PHIL. (K.U), R.PH.

DR. SABA MAJEED
B. PHARM., M.PHIL., PH.D. (K.U), R.PH.

DR. TALHA BIN FAYYAZ
PHARM. D., M.PHIL. (Z.U), R.PH.

DR. HAMMAD AHMED
PHARM. D. (F.U.U.A.S.T), M.PHIL. (Z.U), R.PH

DR. MUNEEZA LODHI
PHARM. D. (F.U.U.A.S.T), M.PHIL. (Z.U), R.PH.

MS. AISHA JABEEN
B.PHARM. (H.U), MBA (B.U), M.PHIL. (Z.U), R.PH.

SENIOR LECTURER

DR. ANUM ARIF
PHARM. D. (Z.U), R.PH.

FACULTY OF NURSING & MIDWIFERY

KEY INFORMATION

DEAN

Dr. Pamela Marshall

CONTACT INFORMATION

Website:

<https://zcon.zu.edu.pk/>

Telephone:

+92-21-36648237-9 Ext: 6425

Fax:

+92-21-36641469

Locate Us:

K-65, Block-F, Allama Rasheed Turabi
Road, North Nazimabad, Karachi.



"I began looking for several nursing colleges as soon as I completed my intermediate. I was made aware of a variety of options, but as soon as I learned about the professors, individualized practice sessions, community, and exposure that ZUFONAM offers its students, it immediately rose to the top of my list.

My entire nursing journey has been nothing but a roller coaster ride, full of laughs, difficulties, and opportunities to grow. Since I had such a supportive faculty, family, and wonderful platform that gave me exposure, everything seemed manageable and doable. Student week, community visits, medical camps, and other co-curricular activities gave me the chance to discover more about myself and pique my curiosity, which motivated me to seek out more knowledge.

I've certainly put in a lot of effort to get here and I can't help but marvel at how much I have learned and how far I've come during this journey. From being taken aback by the coagulation cascade to managing bleeding patients and from trembling at the sight of CPR to be the one standing between life and death. ZUFONAM has hammered me into shape, drilled resilience in me, and taught me that if I put my mind on something, then even the sky isn't a limit for me".

BAKHTAWAR ASHRAF
BSN

INTRODUCTION

Ziauddin University Faculty of Nursing & Midwifery earlier known as the School of Nursing was the first academic unit of Ziauddin University established in 1986 and is recognized by Pakistan Nursing Council. In 2009, the School of Nursing was upgraded to the level of College and becomes the Faculty of Nursing & Midwifery in 2020. The department offers various programmes at the undergraduate and graduate levels to students coming from varied ethnic and socio-economic backgrounds in Pakistan. The reputation of Ziauddin Faculty of Nursing and Midwifery has grown nationally and internationally owing to the competency, critical thinking, and knowledge of the graduates.

VISION

"The Faculty of Nursing and Midwifery aspires to be an innovative leader in preparing graduates to be at the cutting edge of education, technology, research, and practice at the national and international level."

MISSION

"To prepare caring, professional and innovative graduates who provide quality care to the population at all levels of healthcare and continue to strengthen education and research mandate to uplift the nursing profession locally and globally."

To advance this mission, Ziauddin University Faculty of Nursing & Midwifery aims to:

- Provide high-quality client care based on strong knowledge in practice through education and research.
- Respond to the identified needs for nursing and midwifery in Pakistan
- Benefit the university, profession, and public through active individual and group involvement in service activities.
- Develop collaboration and networking with other local, national, and international institutions
- Prioritize teaching and research, which will inform and underpin intellectual innovation and change.
- Foster and develop leadership capacity through its education and research programme.
- Engage in knowledge networking and emerging technologies related to nursing sciences.

AIMS

Ziauddin Faculty of Nursing & Midwifery aims to prepare nurses with the advanced knowledge, skills, and attitude needed to practice efficient and skillful nursing at national and international level. Hence upon graduation, students are able to demonstrate responsibility and accountability to the nursing profession by:

- Adhering to established patterns of professional practices, which support legal, religious, and ethical tenants.
- Utilizing effective critical thinking and problem-solving skills in caring for individuals, families, and communities.
- Integrate scholarly skills and the use of scientific methods in critiquing, and applying existing nursing theories and research findings in selected practice settings.
- Applying effective verbal and written communication in interpersonal and professional interactions with peers, patients, families, and other professionals.
- Demonstrating a high degree of competence in the use of available resources to support the identified needs of individuals, families, and communities.
- Developing leadership skills to promote the development of the nursing profession.

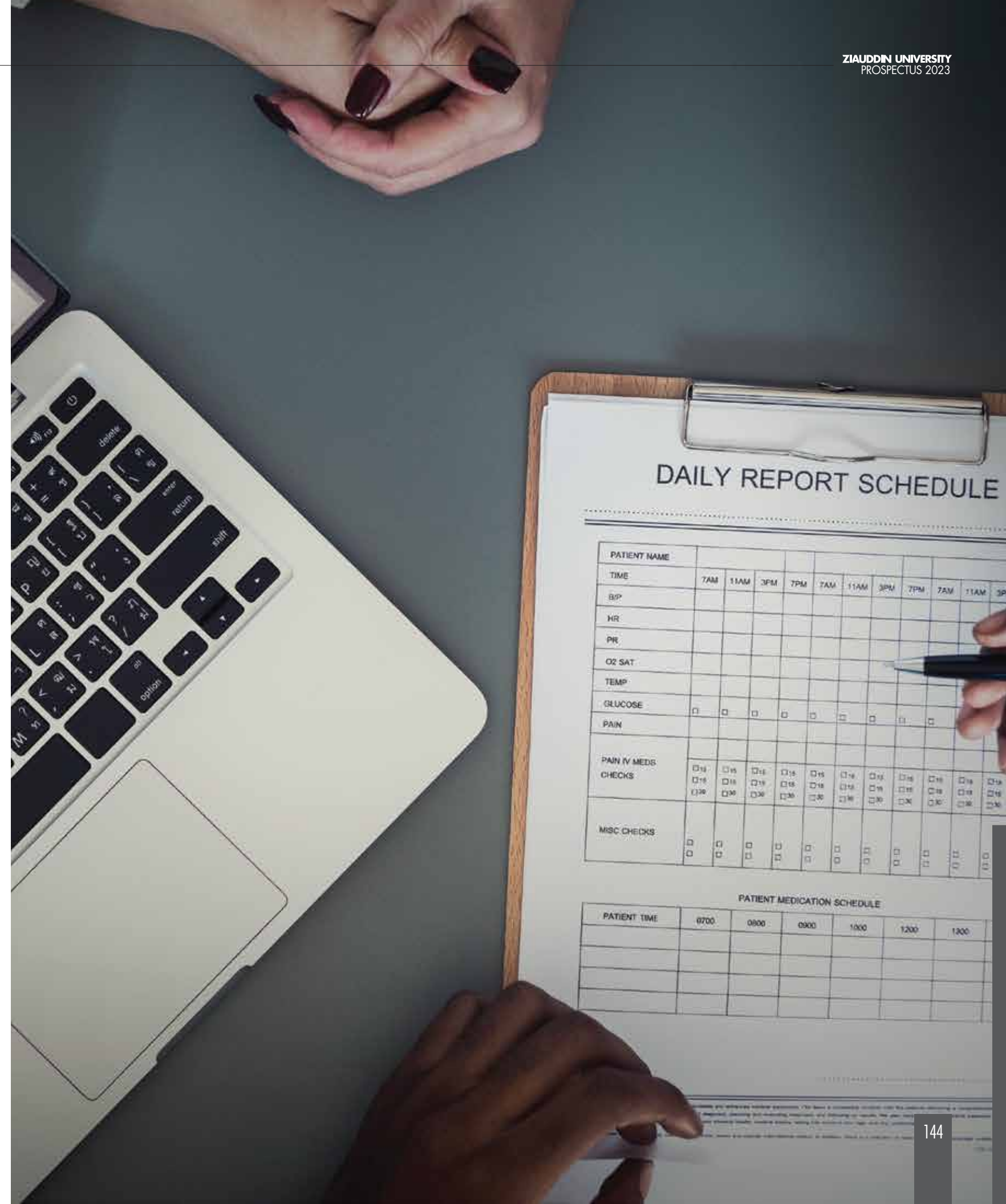
EDUCATIONAL OBJECTIVES

- Maintain high-quality programmes of learning that prepare nursing students to meet the healthcare needs of individuals, families, and the communities we serve
- Provide effective and efficient support for learning and teaching
- Maintain effective systems of ongoing assessment and evaluation to assure high-quality programmes
- Engage in the discovery of knowledge through scholarly work, teaching, and service to add to the body of nursing science
- Provide an effective infrastructure for research to enhance faculty and student development
- Demonstrate effective critical thinking skills in providing care to individuals, families, and communities by using evidence-based literature and problem-solving skills

Graduate attributes

The graduates of the Faculty of Nursing and Midwifery will demonstrate competence in clinical judgment, collaborate as members and leaders of inter-professional healthcare teams, and utilize evidence-based interventions that embrace equity and culturally effective care to patients, families, and populations in a scholarly environment that is accountable, respectful, adaptive and innovative.

As caring professionals, they will promote, maintain and restore health; as well as manage illness and provide end-of-life care for diverse individuals, families, populations, and global communities.



DOCTOR OF PHILOSOPHY IN NURSING (3 YEARS)

INTRODUCTION

There is a strong demand for doctorate-prepared nurses in the healthcare industry and nursing educational institutes in Pakistan. The Institute of Nursing Sciences has the pride to be a leader in nursing education in the country in general and in Sindh in particular. ZUFONAM is distinguished in having highly qualified foreign and locally prepared nursing faculty in the country. The institute is now aspiring to be the third private sector institution in the country to start a Ph.D. programme in Nursing.

The Ph.D. programme in nursing will facilitate the scholars to acquire leadership roles in nursing health care, initiate and maintain collaborative relationships with nurses and individuals in other disciplines, advance nursing and health care knowledge by critically evaluating existing theories and knowledge, identifying new areas of inquiry for research and develop the science that guides nursing practice and health care by conducting original research using established ethical principles and disseminating research findings to advance new directions in theory, practice, and education.

FEE STRUCTURE

Academic Session 2023-2024

Programme Duration: 4 Year		Frequency	Fee
Admission Fee (non-refundable)	One Time		180,000
Enrollment Fee	One Time		15,000
Laboratory Charges	One Time		10,000
Students Fund	One Time		15,000
Security Deposit (Refundable)	One Time		15,000
Tuition Fee Year I Semester I	Per Semester		314,760
Examination Fee	Per Semester		12,000
Total=Admission & Semester-I Fee			561,760
Thesis Process Fee (payable in Sem-III)			50,000
Thesis Defense Fee (payable in Sem-VI)			100,000

REQUIRED DOCUMENTS:

The following documents will be required at the time of interview.

S.#	Attested Photocopies To be Submitted	Original Documents to Be Present.
1	Matric Mark Sheet	Matric Mark sheet
2	Matric Certificate	Matric Certificate
3	Intermediate Mark sheet (FSc. Pre Medical)**	Intermediate Mark sheet (FSc. Pre Medical)**
4	Intermediate Certificate (FSc. Pre Medical)**	Intermediate Certificate (FSc. Pre Medical)**
5	General Nursing Diploma Mark Sheet*	General Nursing Diploma Mark Sheet*
6	General Nursing Diploma Certificate*	General Nursing Diploma Certificate*
7	Specialization Mark Sheet*	Specialization Mark Sheet*
8	Specialization Certificate*	Specialization Certificate*
9	BSN/Post RN BSN Mark Sheet	BSN/Post RN BSN Mark Sheet
10	BSN/Post RN BSN Degree	BSN/Post RN BSN Degree
11	MSN Mark Sheet	MSN Mark Sheet
12	MSN Degree	MSN Degree
13	HEC equivalency certificate of 18 years of education	Domicile
14	NOC from the employer	* For Post RN Qualified Candidate
15	Proposed research project for PhD (write up + Presentation	
16	Statement of purpose (mentioning motivation for seeking admission into PhD program)	
17	03 Letter of Recommendation (One form Immediate supervisor and two academic references)	
18	Valid PNC License	** For BSN Qualified Candidate
19	Domicile	
20	CNIC/ B.Form	
21	02 Passport Size Photographs	
22	Father's/Guardian's CNIC	

MASTER OF SCIENCE IN NURSING (2 YEARS)

INTRODUCTION

The Master of Science in Nursing (MSN) programme prepares nurse experts in education, advanced practice, and/or management for leadership in nursing. The programme broadens the perspective of students by requiring them to take innovative interdisciplinary approaches to resolve healthcare problems and enhance nursing education.

MISSION

"To prepare graduates for the professional role as a nurse educator, researchers, nurse administrator or clinical nurse specialist and for providing quality care to the population at all levels of healthcare"

FEE STRUCTURE

Academic Session 2023-2024

Programme Duration: 2 Year		Frequency	Fee
Admission Fee (Non -Refundable)	One Time		144,000
Enrollment Fee	One Time		7,500
Laboratory Charges	One Time		10,000
Students Fund	One Time		15,000
Academic Visit	Per Semester		12,000
Documentation Fee	One Time		15,000
Thesis Process Fee	One Time		60,000
Thesis Defense Fee	One Time		15,000
Security Deposit (Refundable)	One Time		15,000
Tuition Fee Year I Semester I	Per Semester		253,382
Examination Fee	Per Semester		9,900
Total=Admission & Semester-I Fee			556,782

*All fee structures are subject to change

REQUIRED DOCUMENTS:

The following documents will be required at the time of interview.

S.#	Attested Photocopies To be Submitted	Original Documents to Be Present.
1	Matric Mark Sheet	Matric Mark sheet
2	Matric Certificate	Matric Certificate
3	Intermediate Mark sheet (FSc. Pre Medical)**	Intermediate Mark sheet (FSc. Pre Medical)**
4	Intermediate Certificate (FSc. Pre Medical)**	Intermediate Certificate (FSc. Pre Medical)**
5	General Nursing Diploma Mark Sheet*	General Nursing Diploma Mark Sheet*
6	General Nursing Diploma Certificate*	General Nursing Diploma Certificate*
7	Specialization Mark Sheet*	Specialization Mark Sheet*
8	Specialization Certificate*	Specialization Certificate*
9	BSN/Post RN BSN Mark Sheet	BSN/Post RN BSN Mark Sheet
10	BSN/Post RN BSN Degree	BSN/Post RN BSN Degree
11	01 Year Clinical Experience Letter*	01 Year Clinical Experience Letter*
12	01 Year Internship Letter**	01 Year Internship Letter**
13	02 Year Clinical Experience Letter**	02 Year Clinical Experience Letter**
14	NOC from Concerned Department (If Government Employee OR Sponsored)	Domicile
15	03 Reference Letters	* For Post RN Qualified Candidate
16	Statement of Purpose	
17	Research Intent (02 Pager)	
18	Valid PNC License	
19	Domicile	
20	CNIC/ B.Form	
21	02 Passport Size Photographs	** For BSN Qualified Candidate
22	Father's/Guardian's CNIC	
23	IBCC equivalency letter (in case of O/A level)	

POST-RN BACHELOR OF SCIENCE IN NURSING (2 YEARS)

INTRODUCTION

This is a two-year degree programme. The goal is to prepare nurses to gain in-depth knowledge, skills and develop professional independence, self-directedness, and critical thinking. This programme is offered as an evening program.

MISSION

"To produce graduates that can apply a multidisciplinary and integrated approach to nursing education, practice, and research to foster critical

thinking, evidence-based practice and confidence within the ever-changing context of health care"

ELIGIBILITY CRITERIA

- 03-Year Diploma in General Nursing
- 01 Year Diploma in Midwifery or one year
- Post Basic Specialty Diploma for male candidates in lieu of Midwifery Registered With PNC (Valid)
- Experience: 01 Year Experience as a Registered Nurse

FEE STRUCTURE

Academic Session 2023-2024

Programme Duration: 2 Year	Frequency	Fee
Admission Fee (Non -Refundable)	One Time	60,000
Enrollment Fee	One Time	3,000
Laboratory Charges	One Time	10,000
Students Fund	One Time	6,000
Academic Visit	One Time	6,000
Security Deposit (Refundable)	One Time	7,500
Tuition Fee Year I Semester I	Per Semester	54,120
Examination Fee	Per Semester	5,250
Total= Admission & Semester-I Fee		151,870

*All fee structures are subject to change

REQUIRED DOCUMENTS:

The following documents will be required at the time of interview.

S.#	Attested Photocopies To be Submitted	Original Documents to Be Present.
1	Matric Mark Sheet	Matric Mark sheet
2	Matric Certificate	Matric Certificate
3	Intermediate Mark sheet (FSc. Pre Medical)*	Intermediate Mark Sheet (FSc. Pre Medical)*
4	Intermediate Certificate (FSc. Pre Medical)*	Intermediate Certificate (FSc. Pre Medical)*
5	General Nursing Diploma Mark Sheet	General Nursing Diploma Mark Sheet
6	General Nursing Diploma Certificate	General Nursing Diploma Certificate
7	Specialization Mark Sheet	Specialization Mark Sheet
8	Specialization Certificate	Specialization Certificate
9	Domicile	Domicile
10	Valid PNC License	* If Applicable
11	CNIC/ B.Form	
12	02 Passport Size Photographs	
13	Father's/Guardian's CNIC	
14	IBCC equivalency letter (in case of O/A level)	
15	NOC (If Government Employee)	

BACHELOR OF SCIENCE IN NURSING (4 YEARS)

INTRODUCTION

This is a four year degree programme, leading to practice as a Registered Nurse. The degree programme fosters integrated nursing knowledge, skills, and professional attitude. Upon completion of this programme, the graduate is prepared to be a safe clinical nurse, who will be able to provide comprehensive care at primary, secondary, and tertiary levels within hospitals and community settings.

Moreover, the BSN students will be registered with Pakistan Nursing Council after completing a one-year internship as per the given PNC internship policy and must pass the PNC Licensure examination.

MISSION

"To produce graduates that can apply a multi-disciplinary and integrated approach to nursing education, practice, and research to foster critical thinking, evidence-based practice and confidence within the ever-changing context of healthcare"

ELIGIBILITY CRITERIA

- F.Sc (Pre-Medical) with a minimum overall score of 50%
- Domicile: Preference Sindh
- Gender: Male & Female
- AGE: 17-35 years

FEE STRUCTURE

Academic Session 2023-2024

Programme Duration: 4 Year	Frequency	Fee
Admission Fee (Non -Refundable)	One Time	72,000
Enrollment Fee	One Time	3,000
Laboratory Charges	One Time	10,000
Students Fund	One Time	6,000
Academic Visit	Per Semester	6,000
Security Deposit (Refundable)	One Time	6,000
Tuition Fee Year I Semester I	Per Semester	146,850
Examination Fee	Per Semester	5,250
Total= Admission & Semester-I Fee		255,100

*All fee structures are subject to change

REQUIRED DOCUMENTS:

The following documents will be required at the time of interview.

S.#	Attested Photocopies to be Submitted	Original Documents to Be Present.
1	Matric Mark Sheet	Matric Mark sheet
2	Matric Certificate	Matric Certificate
3	Intermediate Mark Sheet (FSc. Pre Medical)	Intermediate Mark Sheet (FSc. Pre Medical)
4	Intermediate Certificate (FSc. Pre Medical)	Intermediate Certificate (FSc. Pre Medical)
5	Domicile	Domicile
6	CNIC/ B.Form	
7	02 Passport Size Photographs	
8	Father's/Guardian's CNIC	
9	IBCC equivalency letter (in case of O/A level)	



DIPLOMA IN NURSE MIDWIFERY (1 YEAR)

INTRODUCTION

This is a one year programme, leading to a Diploma in Nurse Midwifery applicable for those candidates who have passed RN Examination (Post Basic). The goal of this programme is to reduce the high maternal mortality rates across the country.

ELIGIBILITY CRITERIA

- RN/Generic BSN and registered with Pakistan Nursing Council (PNC)
- Female

REQUIRED DOCUMENTS:

The following documents will be required at the time of interview.

S.#	Attested Photocopies To be Submitted	Original Documents to Be Present.
1	Matric Mark Sheet	Matric Mark sheet
2	Matric Certificate	Matric Certificate
3	General Nursing Diploma Mark Sheet	General Nursing Diploma Mark Sheet
4	General Nursing Diploma Certificate	General Nursing Diploma Certificate
5	Valid PNC License	Domicile
6	Domicile	
7	CNIC/ B.Form	
8	02 Passport Size Photographs	
9	Father's/Guardian's CNIC	
10	IBCC equivalency letter (in case of O/A level)	

FEE STRUCTURE

Academic Session 2023-2024

Programme Duration: 2 Year	Frequency	Fee
Admission Fee (Non -Refundable)	One Time	35,200
Laboratory Charges	One Time	3,300
Students Fund	One Time	5,500
Security Deposit (Refundable)	One Time	5,500
Academic Visit	One Time	5,500
Tuition Fee Year I	Per Year	165,000
Examination Fee	Per Year	5,500
Total Fee		225,500

* All fee structures are subject to change

PARAMEDICAL TECHNICIAN COURSES (1 YEAR)

The Nursing field is one where the responsibility of the professionals to provide quality care and patient centered care to patients. Due to the pandemic COVID-19, the demand of professionals has increased. To fulfill the requirement of the profession and current situation, Ziauddin University College of Nursing, has taken initiative and offers different technician programmes to empower the members of the youth to join a professional training pathway to build a professional career after the secondary school certificate.

There are few approved technician programmes which are affiliated with the Sindh Medical Faculty (SMF). Other remaining programmes are under the College of Nursing, Ziauddin University. Depending upon the response and number of students interested in different technical nursing programmes they will also be later registered with SMF.

- EEG Technician
- ECG Technician
- X-Ray Technician

- Operation Theater Technician
- Emergency Medical Technician (Ambulance)

ELIGIBILITY CRITERIA

- Matric Science (Biology Subject) with minimum 45% marks from any Educational Board of Sindh.
- Domicile only Sindh province, concerned district candidates will be given priority.
- For the admission in ICU, candidates must have a one year anesthesia course certificate.

FEE STRUCTURE

Academic Session 2023-2024

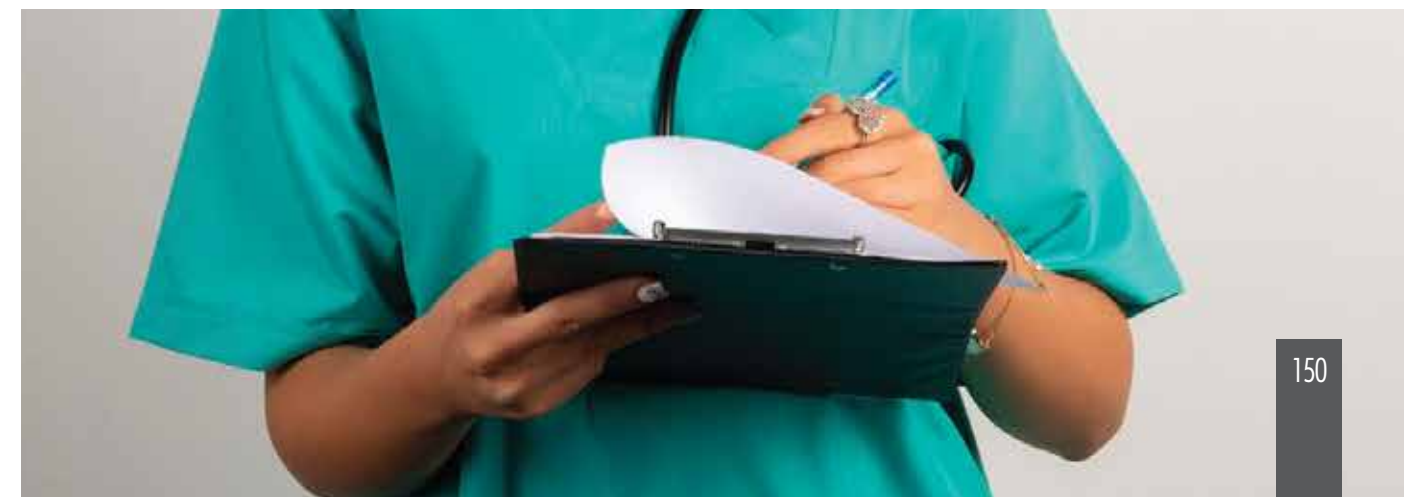
Programme Duration: 2 Year	Frequency	Fee
Admission Fee (Non -Refundable)	One Time	24,200
Laboratory Charges	One Time	3,300
Students Fund	One Time	5,500
Security Deposit (Refundable)	One Time	5,500
Tuition Fee Year I	Per Semester	121,000
Examination Fee	Per Semester	5,500
Total Fee		165,000

* All fee structures are subject to change

REQUIRED DOCUMENTS:

The following documents will be required at the time of interview.

S.#	Attested Photocopies To be Submitted	Original Documents to Be Present.
1	Matric Mark Sheet	Matric Mark sheet
2	Matric Certificate	Matric Certificate
3	Anesthesia Course Certificate. (for admission in ICU Only)	Anesthesia Course Certificate. (for admission in ICU only)
4	Domicile Sindh Only	Domicile Sindh Only
5	CNIC/ B.Form	
6	02 Passport Size Photographs	
7	Father's/Guardian's CNIC	
8	IBCC equivalency letter (in case of O/A level)	



FACULTY MEMBERS

DEAN

DR. PAMELA MARSHALL

ADV.TO CHANCELLOR

DR. YASMIN NOORALI AMARSI

DIRECTOR MSN PROGRAMME/ ASSOCIATE PROFESSOR

Ms. AFSHAN NAZLY

DIRECTOR BSN PROGRAMME/ ASSOCIATE PROFESSOR

Dr. SUMAIRA KHOWAJA PUNJWANI

ASSOCIATE PROFESSOR

Mr. SHAHZAD BASHIR
Mr. BADIL (Part-time)
Mr. RAJA

ASSISTANT PROFESSOR

Ms. ANILA ALLANA
Mr. SANTOSH KUMAR
Ms. SHIREEN ARIF

SENIOR LECTURER

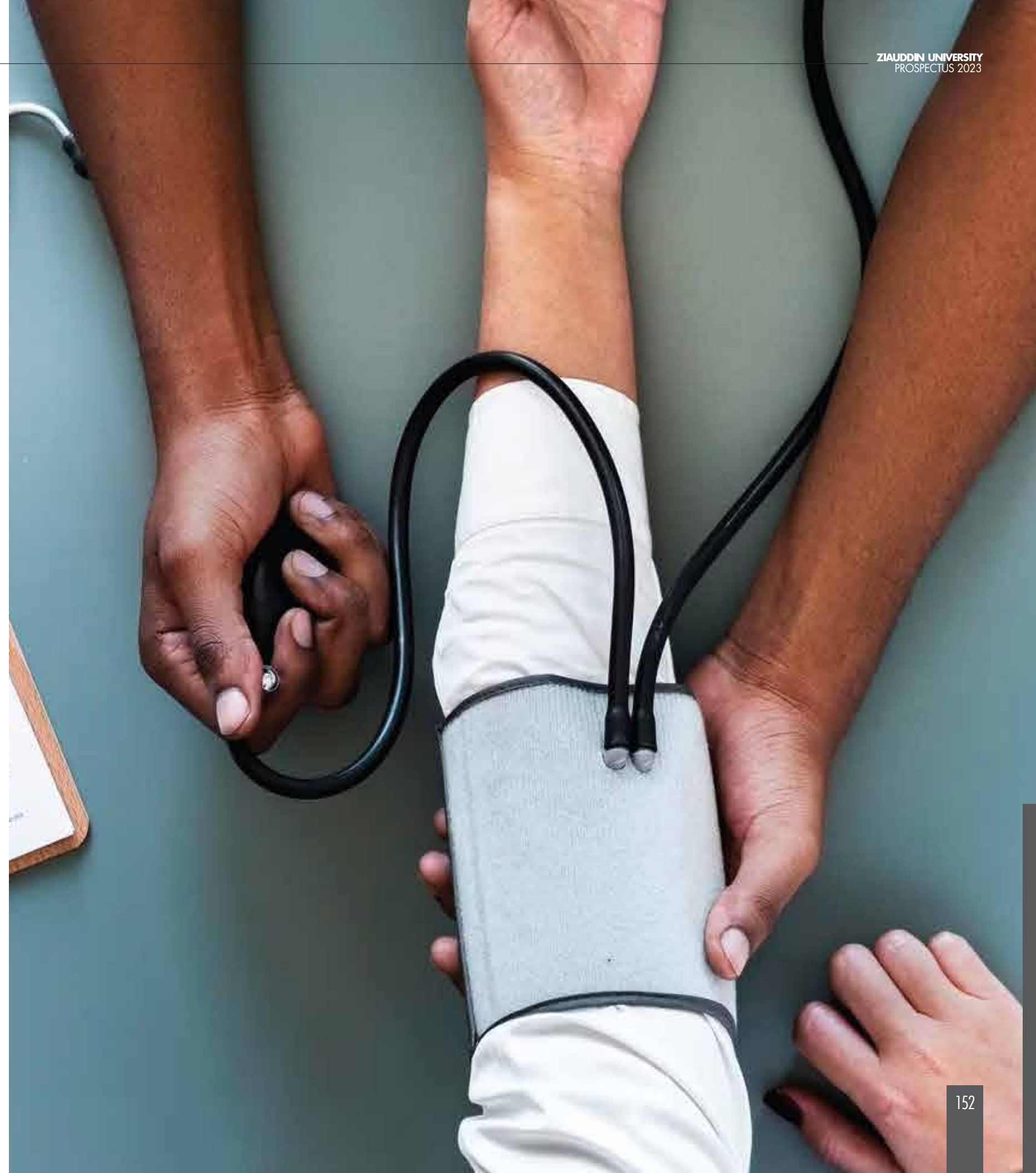
Ms. STELLA NAHEED
Ms. NADIA ALI MUHAMMAD
Ms. SHAHNAZ ZAMAN
Ms. KOMAL ALI
Ms. KOMAL SURANI
Ms. ANISA AMIR ALI BHIMANI
Ms. MEHTAB MEHBOOB
Ms. IQRA AYZAZ
Ms. ABEER SAJID
Ms. NASIRA LATIF

LECTURER

DR. AIMAN SIDDIQUI
Mr. MUHAMMAD UBAID SIDDIQUI
Ms. MEHWISH ARIF
Ms. NARJIS AHMED
Ms. SARA SOHAIL
MR. SHEHNEEL GILL

SKILLS LAB COORDINATOR

Ms. GULSHAN IMRAN



FACULTY OF EASTERN MEDICINE & NATURAL SCIENCES



FACULTY OF EASTERN MEDICINE & NATURAL SCIENCES

KEY INFORMATION

DEAN

Prof. Dr. Tasneem Qureshi

CONTACT INFORMATION

Website:

<https://femns.zu.edu.pk/>

Telephone:

+92-21-36648237-9 Ext 6560

Locate Us:

Block-B, North Nazimabad,
Karachi-74700.

INTRODUCTION

The Faculty of Eastern Medicine and Natural Sciences (FEMNS) focuses on outcome-based learning which ensures that students receive skills that are transferable to the workforce. Ziauddin University was founded in memory of Sir Dr. Ziauddin Ahmad vision to promote quality education through excellence in teaching, research, and public service. Following the vision of the founder, the Faculty of Eastern Medicine and Natural Sciences (FEMNS) is engaged to reassure the fulfillment of the vision contributing in providing a culture of collaborative research and collective responsibility to develop effective and consistent teaching practices to improve student achievement. This Faculty aims to implement its mission with the highest professional and ethical standards in an environment that enables our students towards excellence in clinical practice, research, diet therapy, and organic plant cultivation activities to serve the noble cause.

VISION

- To equip graduates of the faculty with highest grade of knowledge and practical skills in their relevant field.
- To create a transformative impact on society through innovation in research, quality education and professional development.

MISSION

- Make 'Eastern Medicine' a reliable, effective, safe and economical system of health care.
- Equip graduates with modern up to date knowledge of science and practical skills.
- Inculcate in graduates a sense of responsibility towards quality of human life.
- Make graduates realize the importance of sincerity, honesty and integrity in every walk of life.
- Adopt and practice the highest professional and ethical standards leading to excellence in academics and Research activities.

PROGRAMMES OFFERED

- BEM (Bachelor of Eastern Medicine)
- BS in Human Nutrition & Dietetic
- PhD. in Human Nutrition & Dietetic

LIST OF COLLEGES AND DEPARTMENTS UNDER FACULTY

- 1) College of Eastern Medicine (CEM)
- 2) College of Natural Sciences (CNS)
 - a) Department of Human Nutrition & Dietetics (HND)



COLLEGE OF EASTERN MEDICINE

KEY INFORMATION

DEAN

Prof. Dr. Tasneem Qureshi

CONTACT INFORMATION

Website:

<https://femns.zu.edu.pk/>

Telephone:

+92-21-36648237-9 Ext 6560

Locate Us:

Block-B, North Nazimabad,
Karachi-74700.

VISION

- Eastern Medicine is recognized and made available to masses as an effective, economical and safe system of Healthcare in Pakistan.

MISSION

- Produce graduates equipped with modern up to date knowledge of science and art of Eastern Medicine.
- Inculcate in our graduates a sense of responsibility towards quality of human life.
- Make our graduates realize the importance of sincerity, honesty and integrity in the practice of Eastern Medicine.
- Adopt and practice the highest professional and ethical standards leading to excellence in Clinical practice and Research activities.
- Strengthen and promote excellence in education, research and practice of Eastern Medicine.

OBJECTIVES

- To produce competent health professionals with necessary knowledge and skills to care for individual and communities.
- To empower learners, educators, families and the communities with information on management, care, support and treatment

through Eastern Medicine.

- Research for new insights and innovative solutions to health problems.
- To facilitate the provision of clinical and patient care and support to those infected and affected in schools and in the community for improved quality life.
- Providing guidelines in designing curricula for the development of Eastern Medicine.
- To contribute in fulfilling the need of quality research by treatment of chronic diseases through innovative evidence based Eastern Medicine formulations.
- To combat diseases and improve maternal and mental health
- To establish a network of Eastern Medicine Clinics all over the country under the umbrella of Ziauddin University.
- To promote formal links with National and International Institutions and industry for knowledge sharing, collaborative research, clinical training and exchange programs.

AFFILIATIONS & ACCREDITATIONS

- National Council for Tibb (NCT)
- Course Curriculum approved by Ministry of Health as well as by Higher Education Commission (HEC)

BACHELOR OF EASTERN MEDICINE

CAREER PROSPECTS

- License for Clinical Practice in Pakistan and UAE
- Placement in Tehsil Head Quarter (THQ) and District Head Quarter (DHQ) Hospital
- License to cultivate, store, sale and manufacture Natural Medicines
- Scientific positions in DRAP (Drug Regulatory Authority of Pakistan)
- Scientific positions in National and International Research Organizations
- Scientific positions in National and International Public Health Organizations
- Lectureship in Eastern Medicine programme and Paramedical Institutes
- Scientific positions in Herbal Pharmaceutical and Nutraceutical Industries
- Post-graduation and research studies in Clinical and Non-Clinical Sciences

ELIGIBILITY CRITERIA

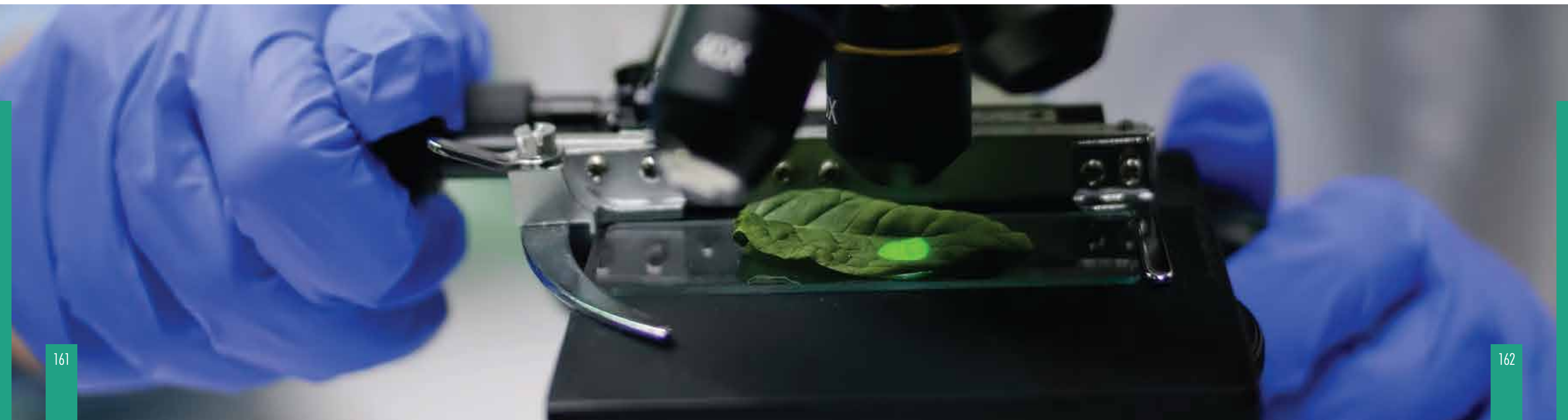
Intermediate Science (Pre-Medical), A level Biology OR Equivalent Qualification from recognized Institution.

FEES STRUCTURE

Admission Fee (One time)	Rs.15,000/=
Documentation Fee (One time)	Rs.3000/=
Enrollment Fee (One time)	Rs.2600/=
Security Deposit (One time)	Rs.10,000/=
Laboratory Fee (Per semester)	Rs.3000/=
Examination Fee (Per semester)	Rs.3400/=
Tuition Fee (Per semester)	Rs.80,000/=
Processing Fee (One time)	Rs.4000/=
Total	Rs.121,000/=

DURATION OF PROGRAMME

5 Years degree programme with one-year house job.



SEMESTERS CREDIT HOURS 2024

Course Code	Course No.	First Semester	Marks	Cr. Hr.
ANA	111	Anatomy-I	100+100	3+1
PHY	112	Physiology-I	100+100	3+1
BIO	113	Biochemistry-I	100+100	3+1
PEM	114	Principles of Eastern Medicine-I	100+100	3+1
HEM	115	History of Eastern Medicine-I	100	3
ISE	116	Islamic Studies/Ethical Behavior	100	2
ENG	117	English Functional	100	2
Total Course 7			1100	19+4
Total Credit Hours : 44, Total Marks 2100				

Course Code	Course No.	Second Semester	Marks	Cr. Hr.
ANA	121	Anatomy-II	100+100	3+1
PHY	122	Physiology-II	100+100	3+1
BIO	123	Biochemistry-II	100+100	3+1
PEM	124	Principles of Eastern Medicine-II	100+100	3+1
HEM	125	History of Eastern Medicine-II	100	3
PAS	126	Pakistan Studies	100	2
Total Course 6			1000	17+4

B.E.M.S Second Professional

Course Code	Course No.	Third Semester	Marks	Cr. Hr.
ANA	231	Anatomy-III	100+100	3+1
PHY	232	Physiology-III	100+100	3+1
BIO	233	Biochemistry-III	100+100	3+1
PEM	234	Principles of Eastern Medicine-III	100+100	3+1
PHS	235	Pharmacognosy-I	100+100	3+1
Total Course 5			1000	15+5
Total Credit Hours : 44, Total Marks 2200				

Course Code	Course No.	Fourth Semester	Marks	Cr. Hr.
ANA	241	Anatomy-IV	100+100	3+1
PHY	242	Physiology-IV	100+100	3+1
BIO	243	Biochemistry-IV	100+100	3+1
PEM	244	Principles of Eastern Medicine-IV	100+100	3+1
PHS	245	Pharmacognosy-II	100+100	3+1
BIT	246	Bioinformatics	100+100	3+1
Total Course 6			1200	18+6

B.E.M.S Third Professional

Course Code	Course No.	Fifth Semester	Marks	Cr. Hr.
PHP	351	Pharmacy-I	100+100	3+1
PAT	352	Pathology-I	100+100	3+1
MTM	353	Materia Medica-I	100+100	3+1
PHS	354	Pharmacognosy-III	100+100	3+1
MED	355	Mudlijat (Medicine)-I	100+100	3+1
COM	356	Community Medicine	100+100	3+1
Total Course 6			1200	18+6
Total Credit Hours : 48, Total Marks 2400				

Course Code	Course No.	Sixth Semester	Marks	Cr. Hr.
PHP	361	Pharmacy-II	100+100	3+1
MIC	362	Microbiology and Parasitology	100+100	3+1
MTM	363	Materia Medica-II	100+100	3+1
PHS	364	Pharmacognosy-IV	100+100	3+1
MED	365	Mudlijat (Medicine)-II	100+100	3+1
FMT	366	Forensic Medicine and Toxicology	100+100	3+1
Total Course 6			1200	18+6

B.E.M.S Fourth Professional

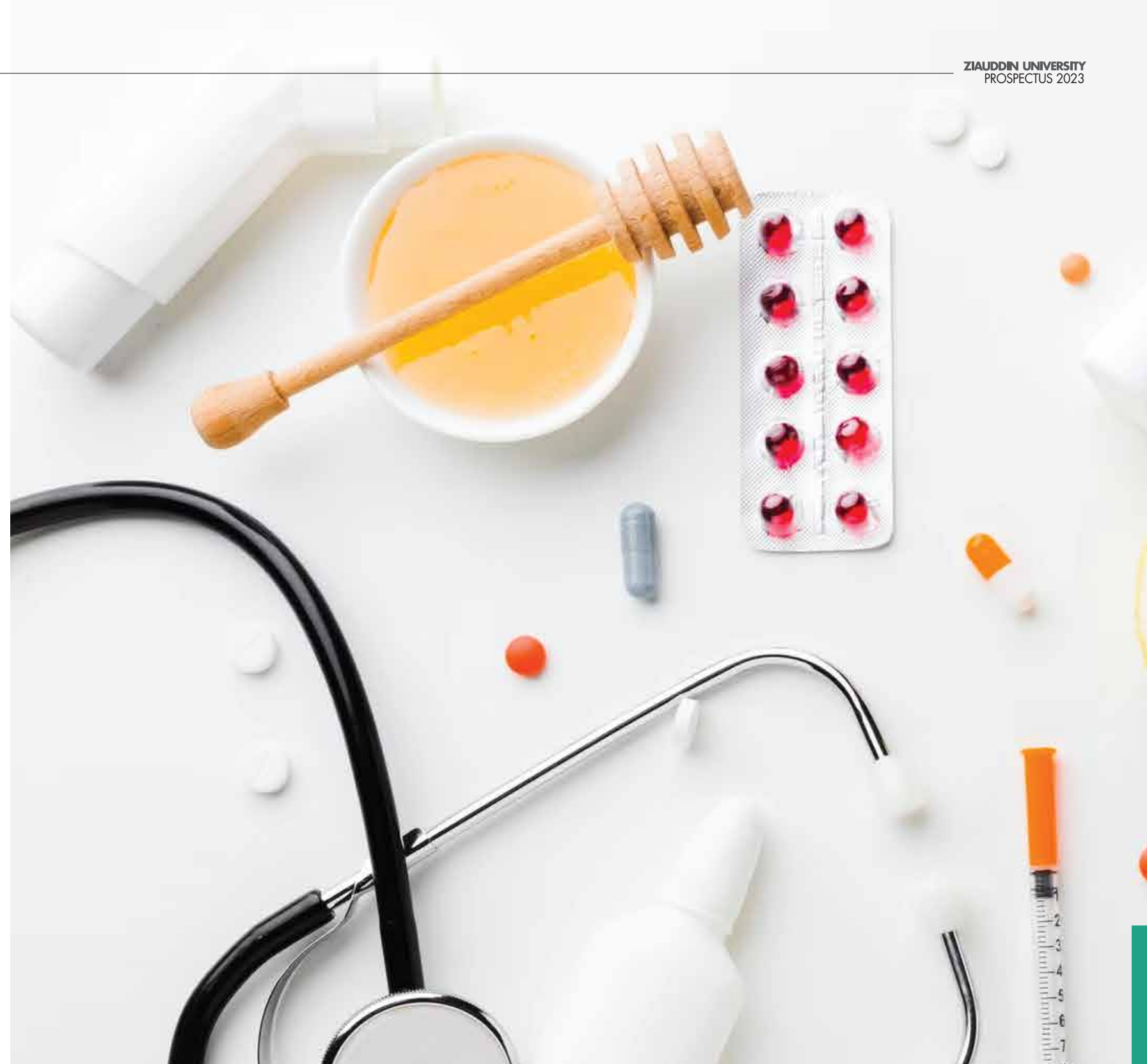
Course Code	Course No.	Seventh Semester	Marks	Cr. Hr.
PAT	471	Pathology-II	100+100	3+1
SUR	472	Surgery-I	100+100	2+1
MTM	473	Materia Medica-III	100+100	3+1
GOS	474	Gynaecology-I	100+100	2+1
MED	475	Mudlijat (Medicine)-III	100+100	3+1
PSY	476	Clinical Psychology and Psychiatry	100+100	3+1
IRS	477	Introduction To Research	100	2
Total Course 6			1300	18+6
Total Credit Hours : 40, Total Marks 2400				

Course Code	Course No.	Eighth Semester	Marks	Cr. Hr.
PAT	481	Pathology-III	100+100	3+1
SUR	482	Surgery-II	100+100	2+1
MTM	483	Materia Medica-IV	100+100	3+1
GOS	484	Gynaecology-II	100+100	2+1
MED	485	Mudlijat (Medicine)-IV	100+100	3+1
BIS	486	Biostatistics	100	2
Total Course 5			1100	15+5

B.E.M.S Final Professional

Course Code	Course No.	Ninth Semester	Marks	Cr. Hr.
PED	591	Pediatrics-I	100+100	2+1
OPT	592	Ophthalmology	100+100	2+1
OBS	593	Obstetrics-I	100+100	2+1
SUR	594	Surgery-III	100+100	2+1
CLD	595	Clinical Diagnostics-I	100+100	3+1
MED	596	Mudlijat (Medicine)-V	100+100	3+1
Total Course 7			1200	14+6

Course Code	Course No.	Tenth Semester	Marks	Cr. Hr.
PED	5101	Pediatrics-II	100+100	2+1
ENT	5102	ENT	100+100	2+1
OBS	5103	Obstetrics-II	100+100	2+1
SUR	5104	Surgery-IV	100+100	2+1
CLD	5105	Clinical Diagnostics-II	100+100	3+1
MED	5106	Mudlijat (Medicine)-VI	100+100	3+1
EPS	5107	Entrepreneurship	100	2
Total Marks / Total Course 7			1300	16+6



LOCATION

Address: 4th Floor, DPT Building, Ziauddin University, Wahid Colony, Block B, North Nazimabad, Karachi.

CONTACT INFORMATION

Phone: (021)-38892014 Ext. 6560

Email: ejaz.mohiuddin@zu.edu.pk

COLLEGE OF NATURAL SCIENCES

KEY INFORMATION

DEAN

Prof. Dr. Tasneem Qureshi

CONTACT INFORMATION

Website:

<https://femns.zu.edu.pk/>

Telephone:

+92-21-36648237-9 Ext 6560

Locate Us:

Block-B, North Nazimabad,
Karachi-74700.



VISION

- Exploring diverse fields of science and develop skilled professionals of the particular field.

MISSION

- Discover, disseminate and apply knowledge to promote systematic study of structure and behavior of the physical and natural world

through observation and experiment.

- Promote an academically and culturally diverse educational and research environment by providing high-quality education and skills.
- Serve the community by working in particular scientific fields and promoting a diverse network of interacting scientists.

DEPARTMENT OF HUMAN NUTRITION & DIETETICS

INTRODUCTION

The Department of Human Nutrition and Dietetics in Ziauddin University was established in the year of 2020 in the College of Natural Sciences under the Faculty of Eastern Medicine. The Department aims to provide quality education in the undergraduate and post graduate programmes and transform the students into internationally competent professionals. Currently, Department of Human Nutrition and Dietetics in Ziauddin University is the only institute in Karachi which offers admissions of PhD programme in the discipline of Human Nutrition & Dietetics.

VISION

To Serve as a Center of Excellence (Institute) for Education and Research for Best Quality Human Nutrition Care in Pakistan and Low Middle Income Countries.

MISSION

Establish Internationally Comparable undergraduate and postgraduate professional education programmes in Human Nutrition and Dietetics

Undertake, promote and support research that can provide evidence base for resolving human nutrition issues

Liaison with the industry and corporate sector to facilitate provision of nutrition promoting product and services

Liaison with private and public stakeholders to Undertake, promote and support projects to promote nutritious and safe diets and healthy life styles

PROGRAMMES OFFERED

- BS in Human Nutrition & Dietetic
- Ph.D in Human Nutrition & Dietetic

BS & Ph.D PROGRAMMES IN HUMAN NUTRITION & DIETETICS

CAREER PROSPECTS

- Clinical Dietitians- Nutritionists
- Nutrition Educationists
- Public Health Nutritionists
- Human Nutrition and Dietetics Researcher and Scientist
- Nutrition experts in media

ELIGIBILITY CRITERIA

For BS candidates having minimum 50% marks in Intermediate (Pre-Medical)/ Home Economics/ A-Level (Biology Mandatory) are eligible to apply.

For Ph.D candidates with a BS in Human Nutrition & Dietetics/BS in Home Economics (Nutrition major)/BS in the equivalent field, as well as a Master's (MS/MPhil.) degree in Human Nutrition & Dietetics or in relevant disciplines, are eligible to apply for admission. Candidates from the relevant disciplines will have to study the preparatory/deficiency courses in one semester prescribed by the Department to enhance their knowledge about the field.

i. Appearance in Ziauddin University Entrance Test is mandatory for all applicants, who wish to seek admission in PhD program to be conducted by the Department of Human Nutrition & Dietetics.

ii. The test shall comprise of the following sections:

Section-I Nutrition 80%

Section-II English 10%

Section-III Analytical Reasoning 10%

iii. Candidates will be required to score at least 70% marks in each section to be eligible for consideration for the provisional admission.

iv. If a candidate has already qualified the International (subject) GRE/GAT/NTS, he/she will be exempted from the subject test component. The validity of International (subject) GRE is 5 years and NTS/GAT is for two years. The passing score of GRE minimum is 60% and that of NTS/GAT is 60%. However, the candidate has to appear in interview.

INTERVIEW

All the students who qualify the Ziauddin University Entrance Test will be required to appear in person for an interview to be conducted by the Department of Human Nutrition & Dietetics to finalize the admission procedure.

FEE STRUCTURE

Tuition fees and other costs are subject to change and are determined each year. Details of Fee Structure (Fee per Semester) are as follows:

For BS-HND	
Admission Fee (One time)	Rs. 15,000/=
Documentation Fee (One time)	Rs. 3000/=
Enrollment Fee (One time)	Rs. 2600/=
Security Deposit (One time)	Rs. 10,000/=
Laboratory Fee (Per semester)	Rs. 3000/=
Examination Fee (Per semester)	Rs. 3400/=
Tuition Fee (Per semester)	Rs. 101871/=
Academic Transport Fee (in case Department shift to Link road)	Rs. 60,000/=
Total Fee at the Time of admission	Rs. 198871/=

For Ph.D-HND	
Admission Fee (One time)	Rs. 25,000/=
Documentation Fee (One time)	Rs. 5000/=
Enrollment Fee (One time)	Rs. 5,000/=
Security Deposit (One time)	Rs. 15000/=
Examination Fee (Per semester)	Rs. 5000/=
Tuition Fee (Per semester)	Rs. 105000/=
Total Fee at the time of admission	Rs. 160,000/=



DURATION OF PROGRAMME

BS-HND: 4years

Ph.D-HND: Minimum duration for Ph.D programme is 03 years and Maximum duration is 8 years.

INDUCTION DATES / ACADEMIC CALENDAR

The year of study is scheduled as follows:

BS-HND

First Semester:

Orientation Day (January 13, 2023)

Semester Start (January 16, 2023)

Mid Term Exam (1st week of March, 2023)

Preparatory Leaves (May 15, 2023)

Final Semester Exam (22 May, 2023)

Ph.D HND

First Semester:

Commencement of Regular Classes (January

11, 2023)

Mid-Term Examinations (March 15, 2023)

Preparation of Final Semester Exam (May 22, 2023)

Final Examinations (May 29, 2023)

RESEARCH

PhD. in Human Nutrition & Dietetic

All the current guideline by HEC will be followed for admission and examinations.

Course Work for Ph.D.

All selected students will be required to complete 18 credit hours course work and after the completion of course work every Ph.D. student shall be required to pass the comprehensive examination to be granted candidacy as a Ph.D. researcher.

THE BREAKDOWN OF CREDIT HOURS

	(credit hours)	
Core courses	12	
Elective courses	6	
Total Coursework CH	18	
Research	30	
Total	48	

ROAD MAP

Semester I	Semester II	Semester III-onwards
Developments in Human Nutrition Science	Nutrition Epidemiology & Biostatistics	Comprehensive Examination and Research
Developments in Nutrition Assessment Techniques	Research Methods in Human Nutrition	
Elective I	Elective 2	

LIST OF ELECTIVE COURSES

SN	CODE	GENERAL ELECTIVES
1	HND8011	Qualitative Health Research
2	HND8013	Statistics for Nutritionist
3	HND8008	Scientific Communication Skills
4	HND8009	Household Determinants of Nutrition
CLINICAL NUTRITION		
1	HND8101	Advanced Clinical Nutrition
2	HND8102	Nutritional Pharmacology
3	HND8103	Nutrition and Immunity
4	HND8104	Personalized Nutrition, Nutrigenomics and Microbiota
5	HND8105	Nutrition and Metabolism
6	HND8082	Internship B Primacy Care Nutrition
7	HND8083	Internship C Primacy Care Nutrition
COMMUNITY NUTRITION		
1	HND8201	Nutrition and Development.
2	HND8202	Nutrition education and Behavior change Communication
3	HND8203	Innovations for Food Security
4	HND8204	International Health and Nutrition
5	HND8205	Psycho-socio-cultural determinants of Nutrition
6	HND8081	Internship A Community Nutrition
INDUSTRY NUTRITION		
1	HND8301	Food processing and Nutrition
2	HND8302	Catering management: standards and regulations
3	HND8303	Nanotechnology in Food and Nutrition
4	HND8304	Food Industry and Human Nutrition
5	HND8305	Food and Nutrition Marketing
6	HND8084	Internship D Food Quality Management

FACULTY MEMBERS

Prof. Dr. Rubina Hakeem

Chief Nutritionist and Head of Department of Human Nutrition & Dietetics
PhD (Nutrition) (UK), RD (UK), FAfN (UK), FAND (US)

Dr. Khursheed Hashmi

Professor
PhD (Microbiology)

Dr. Musarrat Jahan

Assistant Professor
PhD (Biochemistry)

Dr. Faiza Sheikh

Assistant Professor
Ph.D. (Food Science & Technology)

M/S Misbah Ajaz

Lecturer
MS in Public health (Nutritional Science)
BS in Home economics (Human Nutrition & Dietetics)

M/S Nida Azhar

Lecturer
MS in Public health
BS in Home economics (Human Nutrition & Dietetics)

M/S Warda Qamar

Lecturer
BS hons. in Home economics (Food and Nutrition)

M/S Summaya Iqbal

Demonstrator
BS in Home economics (Human Nutrition & Dietetics)

LOCATION

BS-HND

Current address: 3rd Floor, DPT Building, Ziauddin University, Block-B, North Nazimabad, Karachi-74700.

Prospective address: EDUCATION CITY, Link Road, Gadap Town, Karachi, Sindh.

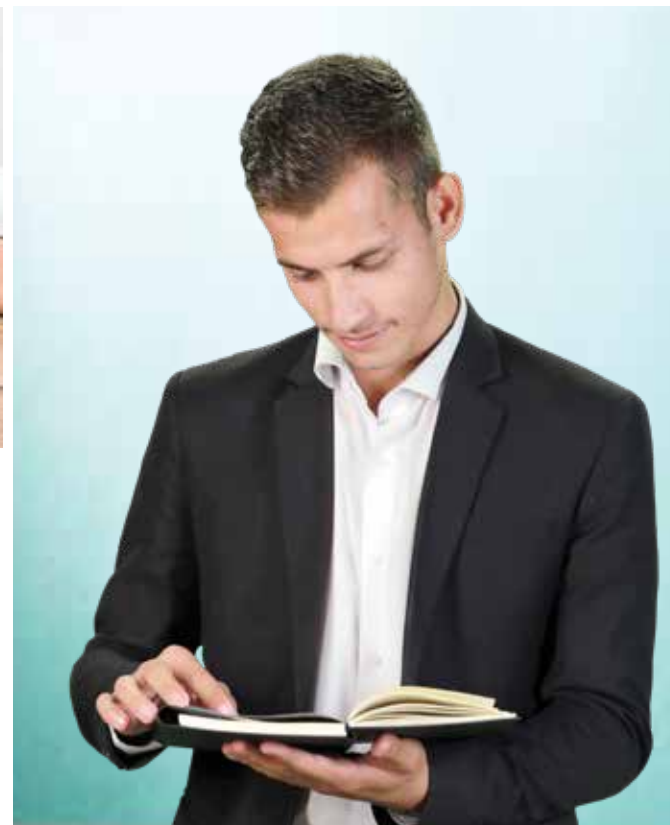
PhD.-HND

3rd Floor, DPT Building, Ziauddin University, Block-B, North Nazimabad, Karachi-74700.

CONTACT INFORMATION

(021) 35862937 ext. 4970 | arqam.sabir@zu.edu.pk or syedtalha.ali@zu.edu.pk

FACULTY OF LAW, POLITICS, & GOVERNANCE



FACULTY OF LAW, POLITICS, & GOVERNANCE

KEY INFORMATION

DEAN

Ms. Shaaista Sarki

CONTACT INFORMATION

Website: <https://zflpg.zu.edu.pk/>

Telephone:

+92-21-35862937 Ext: 2516/2518

Official Cell:

+92 321 366 5941

Locate Us:

4/B, Shahrah-e-Ghalib, Block 6, Clifton, Karachi.



INTRODUCTION

Over the course of 20 years, Ziauddin University has emerged as a diverse platform in academia. With an aspiration to broaden its academic horizons, Ziauddin University introduces the Faculty of Law, Politics, & Governance.

Under the dynamic leadership of Ms. Shaaista Sarki, the Dean Faculty of Law, Politics, & Governance aims to instill expert legal reasoning that responds to social phenomena and contributes to the development of various institutions. Ziauddin Faculty of Law, Politics & Governance, is currently offering five years LL.B. Degree programme, spreading over ten semesters. The curriculum is following Federal HEC standards & Pakistan Bar Council.

MISSION

We commit to excellence and humanity. Not just in theory but in practice.



BACHELOR OF LAWS (LL.B.)

INTRODUCTION

Ziauddin Faculty of Law, Politics & Governance offers a five-year undergraduate degree programme leading to a Bachelor of Laws LL.B. (Hons.). Following are the details:

Categories	No. of Courses Min - Max	Credit Hours Min - Max
Compulsory Courses	10 - 10	28 - 28
General and Foundation Courses	10 - 10	29 - 29
Discipline-Specific Major Courses including Research Project/Internship	36 - 36	110 - 110
Electives within the major	4 - 4	12 - 12
	60 - 60	179 - 179

Total number of Credit Hours: 179

Duration: 5 Years

Semester duration: 16-18 weeks

Semesters: 10

Course Load per Semester: 16-18 Cr. Hrs.

Number of courses per semester: 5-6

LL.B. (Hons.)

LL.B. (Hons.) programme is divided into five academic years; each year comprises a number of modules related to subject specific information, in accordance with PAKISTAN BAR COUNCIL and HEC recognised curriculum.

ELIGIBILITY CRITERIA

Eligibility/Pre-requisite for admission: FA/FSc/A-levels

Admission to Ziauddin Faculty of Law, for a five years LL.B. degree programme is open to all individuals who meet the selection criteria. All candidates are selected for their academic achievements and potential. Students are admitted to the first year of LL.B. on previous high school and/or college academic record,

passing of LAT (conducted by HEC) and interview conducted by the Ziauddin University.

Selection of student is on the basis of an admission policy approved by the Governing Body of Ziauddin University, which is in line with the regulations of Pakistan Bar Council and HEC.

LEARNING OBJECTIVES

To inculcate in students a broad understanding of the social, political and economic contexts within which the Pakistani and global legal system operates. To equip students with knowledge and understanding of the fundamental doctrines of law.

FEE STRUCTURE

Application Fee:	PKR 5,000
Admission Fee:	PKR 30,000
Security Deposit:	PKR 25,000
Student Fund (Per Semester):	PKR 1,500
Tuition Fee (Per Semester):	PKR 200,000
Examination Fee (Per Semester):	PKR 11,500
Pakistan Bar Council (PBC):	PKR 3,000

Not including taxes

Note: Any additional taxes imposed by the government will be the liability of the students/parents/guardian.

The University reserves the right to increase the fees if required according to the recommendation of the Governing Body.

Advance fees to be paid semester-wise. All dues need to be cleared within two weeks of the commencement of the academic year. 2% surcharge per month will be levied on outstanding fees after the due date.



CENTRE FOR ACCESS TO JUSTICE

INTRODUCTION

ZU-CAJ located within the Faculty of Law, Politics & Governance, uses law and legal knowledge as an effective tool for social change. The mission of the center is threefold;

PRO-BONO LEGAL CLINIC

ZU Centre for Access to Justice offers members of marginalized and poverty-stricken sections of society, legal advice free of cost. This advice is delivered in person and over modern means of communication and extends to those areas of the law which are concerned with social welfare, e.g. inheritance, custody and bails.

This legal advice is offered due to the pro bono work that both faculty members and law students at Ziauddin University extend. The university and the centre encourage students to work pro bono not only for the benefit of society but also their own benefit, as it results in personal and professional growth through exposure to the practical and real legal world. The result is innovation and greater participation in the law.

ZU LAW REVIEW

Another aspect of Access to Justice is legal research, which unfortunately is one area where the great nation of Pakistan lacks behind in the global order. Ziauddin Law Review seeks to address all areas of the law and publish articles on all aspects of law. As a

matter of priority, the law review aims to develop a discourse on contemporary legal developments, whether prompted by judicial decisions or legislation and would be especially devoted to the development of jurisprudence. It would seek to reform the law in line with notions of fairness and justice and provide solutions aimed towards legal restructuring, a dire need for the country. The law review would be of interest to all and sundry, legal practitioners, law students, legal academia, judges and the bureaucracy.

LEGAL SEMINARS AND CONFERENCES

The Centre for Access to Justice will not only provide pro bono legal advice and legal research as projects for legal and social change, but would also conduct legal education and supervision at public forums to develop legal awareness, and would use all mediums including conferences and seminars to effect legal and social change.

LEGAL INCUBATION CENTRE

The Ziauddin University, Faculty of Law, Politics & Governance believes in supporting start-ups in the field of law. Our Incubation Centre provides an office space to young lawyers who wish to start their own law firm but lack the funds and resources to do so. Licensed Advocates are provided with a working space and access to research resources, free of cost.



CENTRE FOR HUMAN RIGHTS

INTRODUCTION

All human beings are born with equal and inalienable rights and fundamental freedoms. The United Nations is committed to upholding, promoting and protecting the human rights of every individual. This commitment stems from the United Nations Charter, which reaffirms the faith of the people of the world in fundamental human rights and in the dignity and worth of the human person. In the Universal Declaration of Human Rights, the United Nations has stated in clear and simple terms the rights which belong equally to every person. These rights belong to you. They are your rights. Familiarise yourself with them. Help to promote and defend them for yourself as well as for your fellow human beings.

UN Charter 1947

CENTRE FOR HUMAN RIGHTS

ZU-CHR located within the Faculty of Law, Politics & Governance, uses law and legal knowledge as an effective tool for promoting and securing human rights. To accomplish this momentous task we have different segments within the center to address the top areas:

- Advocacy
- Peace & Conflict Studies
- Child Rights Programme
- Prison Project

ADVOCACY

The Advocacy for Human Rights works to create public policy that respects, protects, and fulfills human rights obligations in our home community and around the world.

Our Priorities

Our advocacy priorities are protecting the human rights of asylum seekers, refugees and immigrants; protecting the human rights of women and girls; supporting the work of human rights defenders and working to help incorporate international human rights standards in Pakistan.

Our Strategies

Using international human rights mechanisms, including those of the United Nations, to highlight human rights violations and advocate for policy change;

- Advocating for public policy changes in Pakistan both on a local and national level on multiple platforms: media, talks, seminars, and etc.
- Providing direct legal advocacy in public litigation cases and supporting causes promoting human rights
- Advancing our priorities by working in local, national, and international coalitions.

PEACE & CONFLICT STUDIES

Peace and conflict studies is a social science field that identifies and analyzes violent and nonviolent behaviors as well as the structural mechanisms attending conflicts (including social conflicts), with a view towards understanding those processes which lead to a more desirable human condition.

Our Strategies

- Promotion of Alternative Dispute Resolution particularly Mediation training and workshops
- Conducting field studies to arriving at the heart of common conflicts within the general public in Pakistan, be it local or international.
- Regional emphasis on Afghanistan & India peace & conflict studies
- De-radicalisation efforts thru engagement with government institutions and NGOs in the promotion of peace and dialogue

CHILD RIGHTS PROGRAMME

Children are the most vulnerable of all human beings and their protection is of the utmost important as they are the future.

At ZU-CHR the Child Rights Programme is geared to work with Child Protection Unit government bodies, orphanages, and adoption agencies for the active change and development in policies to enhance children rights.

Our Strategies

- Promoting and advocating the Hague Convention Child protocols
- Working with international adoption agencies and providing training to orphanages to secure children rights within institutions
- Working in sensitive areas for street children and providing solutions protecting their rights
- Conducting studies to tackle child abandonment and mechanisms to prevent trafficking

THE PRISON PROJECT

Prisoner Rights have been a key area within Human Rights often neglected. Giving voice to the voiceless is an important element. Working

with NGOs and government institutions to bring appropriate prison reform to enhance prisoner rights and help create a full rehabilitation programme

Our Strategies

- Prison Rehabilitation Programmes promotion particularly Bacha Jail
- Legal Aid to pending cases
- Jail visits and inspection reports to influence policy change
- Focusing on international prisoners and their repatriation to their home countries
- Half-way house and follow up after release



CENTRE FOR LAW & TECHNOLOGY

INTRODUCTION

The 21st Century has brought with it a boom in technological advancement, arguably becoming an era in history that will be seen as the one which saw progress manifest the quickest and most disruptively. The word 'disruptive' (in the context of technology) only insinuates that the technology was so far-reaching, so pervasive, and so all-encompassing that it resulted in drastic changes to the modes in which society and commercial activities operate.

It is no secret that codified law always lags behind the zeitgeist of an era. Matters which require regulation are without exception regulated in retrospect rather than proactively. The reason for this is summarised eloquently in the Collingridge Dilemma. The dilemma highlights a hard problem with regulating technology in 2 simple prongs. First, when a technology is created, not enough is known about it in order to effectively regulate it before understanding its ramifications on society, economics and individuals. Second, when such knowledge is attained (after the passage of time), that technology is far too entrenched in society to be effectively regulated. A good example is the internet. When it was initially created, it was a closed network started by DARPA (a US Military Programme) for intelligence-sharing and secure communication. However, at the time of its creation, not even its creators could imagine the impact that the internet would have on the world once it became globalised. Today, the internet's reach is (relatively) well understood, but it is far too entrenched in our everyday lives to be effectively regulated without completely changing the nature and use of the internet.

An understanding of the complex problems revolving around technology is essential for every lawyer, social scientist, politician, and businessperson, in order for our world to move forward in a careful, balanced and thoughtful manner. The industrial revolution reaped great

results in terms of technology put into practice, but the costs to natural resources and air/ozone quality were not well understood. Thus today, we see an escalation in climate change which can largely be attributed (and traced back to) the boom in industry. There will definitely be negative impacts of technology on the environment, on economics and even on the very fabric of our social values, and thus it is imperative to ensure our policymakers are aware of the multifarious elements which progress along with technology in order to effectively utilize it whilst minimizing associated risks.

THE CENTRE FOR LAW & TECHNOLOGY

There is a philosophical concept that reads: 'what we create, in turn, creates us'. The same is true for technology we create. Granted, Pakistan is an emerging name on the global map when it comes to technology innovation. However, a lack of infrastructure and innovation-related opportunities does not need to percolate into our legal community- lawyers ought to be, and are expected to be at par with all global shifts in technology and must remain up-to-date with developments in these areas.

In order to assist the Courts or legislative assemblies, lawyers and lawmakers must be aware of the multifarious nature and modalities of technology. This understanding can only exist once a systematic, considered approach is taken to understand the fundamentals of technology and its impact on the various aspects of the status quo.

With the novel Centre for Law & Technology, we aim to ensure that the students who graduate from the Ziauddin Faculty of Law, Politics & Governance are at par with their foreign counterparts, and are well-versed with internationally-acclaimed ideas revolving around the use of various modalities of technology, and subsequently, the regulation of such technologies. Our contribution to the society of the 21st Century is not only the need of the hour but rather

will pave the way our society sees technology for decades to come.

Our team is spearheading national research and is engaging in targeted, merit-based advocacy in this regard.

FLAGSHIP RESEARCH

With international and national collaborations, strategic academic partnerships, and expert opinions, the Centre for Law and Technology is engaged in research on topics of international importance.

- Personal Data & its Implications in the digital world
- Data Protection in Pakistan
- Cybersecurity & data
- Pakistan's [tech-centric] legislative landscape

CENTRE FOR INTERNATIONAL AND CONSTITUTIONAL LAW

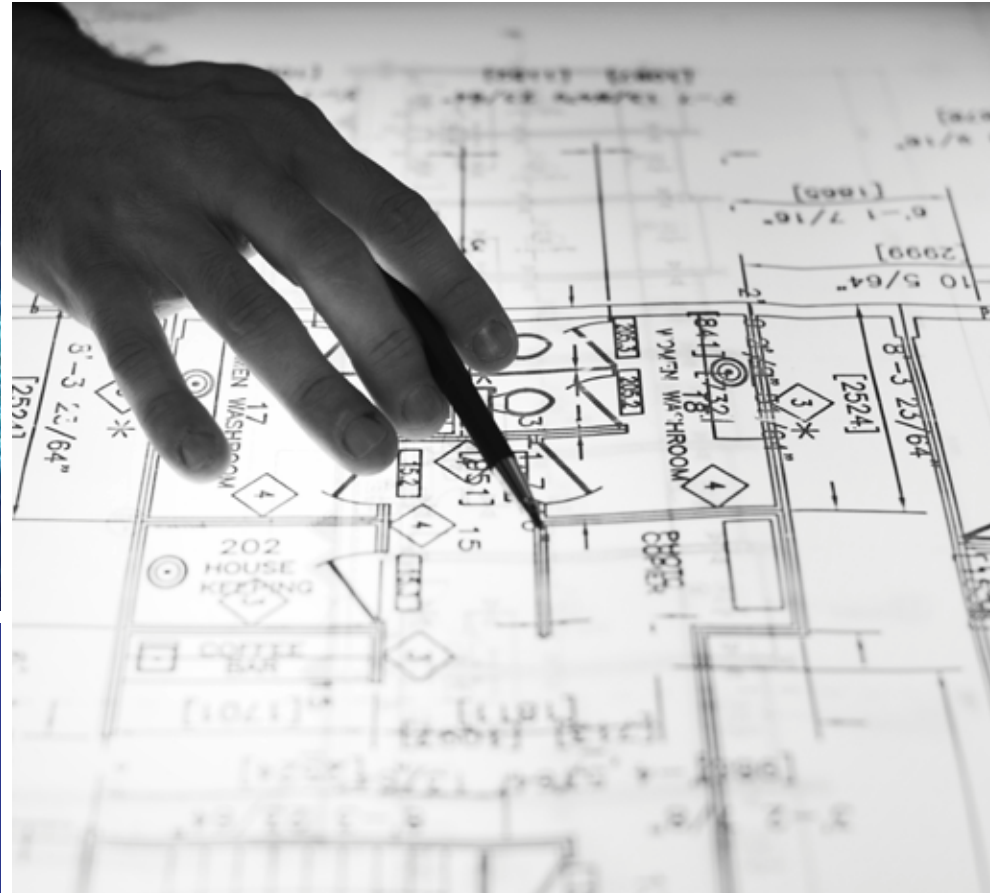
International and constitutional law are subjects that sometimes feel like poor relations, even the orphans of wider legal study. They are frequently dismissed as being too theoretical or as lacking in practical application. There is a widespread perception that international law is ignored by powerful states most of the time, and then hypocritically championed when it suits them. This kind of neo-realist approach can be identified in the US/UK approach to the invasion of Iraq in 2003. This invasion was illegal under international law, yet this did little to dissuade the powerful states from invading a weak state with few allies in the world. In 2014, Russia annexed the Crimean Peninsula from Ukraine to a chorus of protests that this was an illegal act under international law. It undoubtedly was, but it is hard to see why this should make any difference to the political calculations being made in the Kremlin. President Putin is a hard man to understand, but we can guess his logic was something like: 'No one cares enough about Ukraine to intervene militarily. And if they attack me legally, they will be exposed as hypocrites.'

Similarly, constitutional law is sometimes regarded as a weak concept that does little to really influence the behaviour of the politicians and officials that it is supposed to regulate. So many leaders enter power committed to their state's constitution, only to change it radically so they can stay in power for life, or else suspend it entirely and let the military take over. The United Kingdom does not even have a codified constitution, whilst Pakistan has one that is extremely complicated and thus hard for the people to follow. There are strong constitutional systems in the world, but they are far from universal.

Yet constitutional systems are relevant in governing most of the world. Most of the states in the world do follow some form of a codified constitution. These systems have similarities and differences and one can thus engage in a meaningful comparison. The reality is that we tend to hear more about constitutional systems collapsing because that is how the news media works. Problems and protests in an African state where the constitutional order has gone awry make the news. The fact that things are running relatively smoothly in Argentina, does not. The Centre aims to take a constructive approach to constitutional matters, both at home and abroad.

Similarly, international law is still alive and well, especially in the age of COVID. International travel has resumed. International law allows states to cooperate in ensuring that this travel is safe and does not lead to further spreading of the virus. International law helps to ensure that vaccines are both developed and shipped across borders. If the record of international law on the use of force has been weak in recent years, its record on enabling cooperation in health, science and technology is one of the great unsung success stories of our time.

FACULTY OF ENGINEERING SCIENCE, TECHNOLOGY & MANAGEMENT



FACULTY OF ENGINEERING SCIENCE & TECHNOLOGY MANAGEMENT

KEY INFORMATION

DEAN, FACULTY OF ENGINEERING
SCIENCE & TECHNOLOGY

Dr. Fahad Azim

CONTACT INFORMATION

Website:

<https://zufest.zu.edu.pk/>

Telephone:

+92-21-36644153

+92-21-36648237-9 Ext: 334

Email:

fahad.azim@zu.edu.pk

Locate Us:

(SITE I): Education City, Link Road,
Darsano Chano, Karachi

(SITE II): F-103, Block B, North
Nazimabad, Karachi.

"First of all, I would like to thank Ziauddin University for awarding the gold medal to me. Well, this is a very proud moment for me as it took approximately 4 years to reach this platform. I would also especially like to thank my teachers too, who believed in me and council me continuously which motivated me to work harder to give the best of my capacity".

AMENAH ABDUL MUJEEB
BE BIOMEDICAL ENGINEERING

VISION

Exploring uncharted waters of knowledge to make the world a better place to live.

MISSION

Ziauddin University Faculty of Engineering Science & Technology (ZUFEST) aims to create robust and well-led academic units that produce efficient & agile engineers with an improved research base to facilitate the development of an ambitious blueprint for continued growth in a knowledge based economy.

INTRODUCTION

ZUFEST aims to develop as a "contributing community" and not just an academic unit. We are focused to provide an environment where faculty, students and staff will be motivated, ambitious, and willing workers. The bonding will be such that future Alumni themselves take the lead to help their alma mater grow & develop.

Leadership of ZU is mindful of the fact that inner strength of any organisation lies with its Human Resource. Therefore, Capacity building of existing manpower and attracting new highly qualified workforce is a prime focus of ZUFEST. The highly qualified faculty is on board to support the Vision & Mission of the organisation. ZUFEST is striving hard to be known for its different pedagogic approach equipped with interactive learning tools & case study based teaching and a research base, where research is conducted for a bigger purpose rather than just for publication. ZUFEST targets to emerge as one of the most responsive research units and create upcoming opportunities in the world.

Moving forward in the pursuit of opening up new horizons, ZUFEST is aiming to launch programmes in line with the market needs. Our objective is to produce graduates in the disciplines which are not saturated hence having high job scopes. Entrepreneurial attitude shall be the highlight of ZUFEST graduates. They should have the potential to be the market leaders other than just a job seeker.

ZUFEST undergraduate policies

1. Number of Semester per Academic year

1.1. There will be two regular semesters (fall, spring) in an academic year.

1.2. Fall/Spring semesters will spread over 16-18 weeks (exclusive of 1-2 weeks for exams).

1.3. There shall be two scheduled examinations in one semester i.e. Mid Term (8 weeks teaching + 9th week for examination) and Final Term (8 weeks of teaching + 18th week for examination). Chairpersons of the departments ensure to post the schedule of examination on the students notice board at-least two weeks before the conduction in consultation with Head Invigilator.

1.4. A Summer Semester may be of 8 weeks of concentrated study for completing remedial/-deficiency course work.

1.5. Summer semester may be offered as an optional semester of 8 weeks duration (exclusive of 1 week for exams). Students will be offered courses to remove deficiencies and can enroll in upto a maximum of 2 courses during summer.

1.6. Moreover, a student who has either failed or has been stopped to take the examination due to the shortage of class attendance or wishes to improve his/her grade is allowed to register in summer.

1.7. The contact hours per week during the summer semester will be doubled to ensure that the course is completely taught in a summer session with half of the duration as compared to a regular (Fall/Spring) semester.

1.8. If any student repeats any course during his/her undergrad degree programme, he/she will be disqualified from the Gold Medal.

2. Course load for Fall and Spring Semester

2.1. An undergraduate programme of instruction generally includes a 12-18 credit hours course load including exams in a regular semester.

2.2. In case any student wishes to enroll for one more course beyond 18 cr. Hours he/she may be allowed by the concerned Chairperson on recommendation of Class Advisor in either of the two cases—

- a. If his/her CGPA is above 3.2
- b. The student needs the course to graduate

on time in the Final year

3. Enrollment/Registration in courses

3.1. Chairperson will assign a Class advisor to each section/Batch of the programme. The advisor and the student of that section together will develop a course registration strategy subject to student academic performance. The advising file will be updated each semester and will include copies of transcripts and GPA earned.

3.2. Students are required to choose the courses they wish to enroll in, before the start of a semester with the advice of the class advisor taking into consideration the pre-requisite courses.

3.3. A student who wishes to add or drop a course, or change a section of a course after registration must complete the relevant procedure as prescribed by ZUFEST within two week of semester commencement.

3.4. No drop and add will be allowed after the second week of the semester commencement.

4. Admission

4.1. Admission will be announced twice a year in (fall and spring) for undergraduate programmes.

4.2. The Number of batch intakes per year per programme will be maintained as per the approval of the respective accreditation council recommendation for every programme.

4.3. The number of students per batch will be maintained as per the approval of the respective accreditation council recommendation for every programme.

4.4. Provisional admission may be given by the departmental chairperson in consultation with the Dean. However, the maximum provision time given to any candidate should not exceed 30 days from the date of provisional admission.

4.5. Failing to meet the 30 days may result in cancellation of provisional admission without any further extension and no fees will be refunded.

4.6. In the case of percentage deficiency cases, transfer of programme within ZUFEST may be considered, providing the applicant fulfills all the admission requirement of that programme and sufficient number of seats is

available to accommodate the student.

4.7. All the prospective students need to apply online via the portal and need to submit admission processing fees as prescribed by the university (recommended Rs 2500 for all ZUFEST undergraduate programme).

4.8. All undergraduate student need to appear in university aptitude test and their merit is defined as per following criteria:

Criteria	Weightage
Aptitude test	50%
Intermediate matriculation	40%
	10%

* Subject to appear in interview

4.9. Council recommendation must be followed for DAE/BTECH/BS Technology quota for admission in Engineering and all undergraduate programs.

4.10. IBCC equivalence must be required for all foreign recognised qualifications including A-levels.

5. Repeating courses/improvement of CGPA

5.1. If a student gets 'F' grade, s/he will be required to repeat the course in full. There will be no Supplementary/Special Examination in a Semester System; if a student fails in a course, s/he is required to repeat it.

5.2. Students may be allowed to repeat a course in which s/he has obtained grade below "C". In such a case both the previous and new grade obtained will be recorded on the transcript, however, only the better grade shall be used in the calculation of CGPA. The students are allowed to take a maximum (6) of courses to repeat in 8 semester degree programme.

6. Freezing of a semester

6.1. If a student freezes a semester(s), s/he will resume his/her studies from the same stage where s/he left (froze). No freezing during the semester will be allowed. The maximum duration of the degree programme shall remain the same i.e. 7 years from the date of admission.

6.2. If a student is not enrolled in any course in a semester, s/he will not be considered a regular student of the university in that period. The student may then enroll in these courses in a

subsequent semester; however, s/he will have to meet pre-requisites of any course taken. In addition, it is understood that the university is not required to offer all courses in each semester.

6.3. The maximum duration of freezing is one year; a candidate who gets a semester freeze can get registration of next year with upcoming batch.

6.4. The student needs to pay semester charges to freeze semester.

6.5. Freezing of semester will only be allowed after the successful completion of 1st semester as prerequisite as the case may be for other semester's predecessor to the freezing Semesters.

6.6. Under following special circumstances, freezing of the first semester can be considered by the approval of competent authority:

- a. Iddah
- b. Maternity
- c. Death in the immediate family
- d. Any other subject to acceptance on justified rationale

6.7. Student can avail the freeze option, only 2 times, during undergrad programme; however two consecutive freezing applications shall not be entertained.

7. Transfer of credit hours for undergraduate programme

7.1. Transfer of credits from HEC recognised institute may be permissible if the programme in consideration is approved from HEC and the respective accreditation council for the HEI from where students want to transfer.

7.2. On receiving a request of transfer from a prospective applicant, a three member departmental standing committee headed by the Departmental Chairperson work on the equivalency of the credits earned in other HEI. The Chairperson will submit the credit transfer recommendations to Vice Chancellor/Academic Council through Dean within two weeks of receiving of application.

7.3. Credits are transferred on course to course basis i.e. a person taking course A at HEI X is allowed to transfer his/her credits to ZUFEST provided that course A is equivalent to course B taught at ZUFEST.



7.4. No credit hour of a course will be transferred if the grade is D.

7.5. Credit hours may only be transferred between duly recognised HEIs and internationally recognised universities.

7.6. The transfer of credit does not alter the maximum time duration for completion of the degree. The total time duration will be counted from the date of admission to the degree programme in first HEI.

8. Requirement of the award of degree

8.1. A student must have a regular admission in the Undergraduate programme of the institution and should earn a minimum of 50% credit hours out of a total of 128–140 credit hours from ZUFEST from where s/he will be entitled to the degree. (This para should be read in conjunction with para 7).

8.2. For completion of the degree, the minimum qualifying CGPAs for BS is 2.0

8.3. In case a student secures less than 2.00 CGPA (minimum qualifying CGPA) at the end of the final semester, s/he may be allowed to get re-admission in one or more courses, in which his/her Grade is below C, along with the forthcoming semester, provided that s/he is not debarred under the CGPA Improvement Regulation and time duration specified for the programme i.e. 7 years. ((This para should be read in conjunction with para 5).

9. Programme Duration

All the undergraduate programmes in ZUFEST must be of minimum 8 regular semester (excluding summer semester)

9.1. Minimum duration to complete an undergraduate programme is 4 years.

9.2. Maximum duration to complete an undergraduate programme is 7 years.

10. Cancellation of University Enrollment

Admission and University enrollment of the student will be canceled in any of the following circumstances:

10.1. If a student fails to attend any lecture during the first four weeks after the commencement of the first semester as per the announced schedule.

10.2. If the prerequisite academic documents of the students are found fake, forged, altered

or not in requirement with admission criteria mentioned by the university even after graduation from the university.

10.3. If it does not meet the minimum admission criteria set by the respective regulatory/accreditation council.

10.4. If the provision admission requirements do not meet by the deadline specified in the letter for submission of a certain mentioned milestone.

10.5. If a student fails to register in two consecutive semesters without any written prior approval from Chairperson and Dean.

10.6. If a student has involved in serious disciplinary misconduct.

10.7. If a student fails to complete the degree requirement within 7 years duration
In case of cancellation of admission because of any of the clauses as mentioned above) no fees will be returned.

11. Fee refund Policy

Fee deposited at the time of admission by fresh students or before the start of the semester, shall only be refunded under the following time frame:

- Upto 7th day (inclusive of holidays) of the commencement of classes 100%
- Upto 14th day (inclusive of holidays) of the commencement of classes 50%
- Only security will be refunded if a request for withdrawal is made after 14 days

12. Grading policy

12.1. In general, Relative Grading System is adopted in ZUFEST

12.2. Following letter grade and equivalent GPA are used:

Letter Grade	Grade Point
A	4.00
B+	3.70
B	3.50
B-	3.00
C+	2.70
C	2.50
C-	2.30
D	2.00
F	0.00
W	Withdraw
I	Incomplete

12.3. In case of class size less than 20 students,



course instructor may opt for absolute grading with the written permission of Dean on recommendation of Chairperson after course registration completion.

12.4. Both in case of relative and absolute grading it is recommended to normalised the result to maintain the standard of grading practice.

12.5. Grading Policy for each course identifies weightage of Homework, Quizzes, Mid-Semester Examination, Final Examination, Lab and Project etc. as approved by respective departmental chairperson is as follows:

Nature of Examination	Courses With Lab	Courses Without Lab
Sessional Examinations (Quizzes/ Assignments/ Presentations)	13.33%	20%
Midterm Examination	20%	30%
Final Examination	33.33%	50%
Lab (Lab Exam/Lab Report/Lab Assignments/ Projects)	33.33%	

12.6. Students may be allowed to withdraw from a course within 6 weeks of the semester. In such a case the transcript shall record the student enrolled in the course and withdrew. Consequently, grade 'W' will be awarded to the student which shall have no impact on the calculation of the SGPA/CGPA of the student. However, at the time of re-registration, this course will be treated as a new course and full fees will be charged. Additionally, any such course does not come under deficiency courses so it cannot be opted in the summer semester.

12.7. A student withdrawing after the 6th week shall be automatically awarded "F" grade which shall count in the GPA and stay on the

transcript.

12.8. Full fees will be charged for all withdraw courses. There shall be "no full or partial refund of fee" allowed under any circumstances

12.9. If a student fails to appear in the final examination of any registered course because of the reason/circumstance subject to acceptance on the justified rationale. S/he will be marked with grade "I". The status, of course, will be incomplete.

12.10. For grade "I", the student must have attendance (>75%) in that specific course and have satisfactory performance (>70%) in mid-term, quiz, assignment and all academic activities of that class.

12.11. At the time of re-registration of course with grade "I" no course fee will be charged. Additionally, such courses come under deficiency courses and maybe opted in the summer semester. However, the maximum course load in the summer semester should not exceed two courses including this course.

12.12. All the written request following the policy of "W" and "I" grades must be a route through the respective class advisor and submitted to Dean for approval on recommendation of Departmental chairperson.

12.13. No request for "W" grade is entertained after 6 weeks of commencement of classes. No request for the "I" grade is entertained after the end of the final examination.

13. Make up Examination

13.1. No make-up/re-take examination shall be allowed in a case where a student falls short of the required level of attendance or he/she fails the course. In such cases, the student shall repeat the complete course. Full course fees shall be charged when students again re-register for failed courses.

13.2. The make-up final examination may, however, be allowed with the next semester examination in case of death of parents, spouse or children of the student and course with "I" grade.

14. Student grievance committee

14.1. A four (4) member committee constituted of a senior faculty member/Head Invigilator,

relevant departmental Chairperson, Dean headed by Controller of Examinations to redress the grievances of the students about any course instructor or grades or for any other issue pertaining to final examination.

14.2. In respect of grade, a student must submit the grievance application if any, in writing to the departmental Chairperson within (07) seven working days of the receipt of the grade. The departmental Chairperson shall forward the grievance application to the Committee. It will be mandatory for the Committee to hear both sides (student and the instructor) and will give its final decision within (05) five working days or before the start of registration for the new semester, whichever comes earlier. The decision of the committee will be deemed final and will be binding on all parties.

15. Harassment policy

"Harassment covers the following

i. Passing remarks, placing visual or written material, aimed at a specific person or gender with the intention of physical assault or causing harm to the person.

ii. Any unauthorised use of electronic or other devices to make a picture or audio/video record of any person while on University premises without his or her prior knowledge."

15.1. The University does not tolerate any form of harassment or victimisation and expects all students and teacher to treat each other with respect, courtesy and consideration

15.2. Any student feels s/he has been subject to harassment can make a written complain to Departmental Chairperson via the appropriate

Procedure in relation to complaints about university staff or university student.

15.3. All such complains shall be forwarded to Registrar office for further action via Dean within (03) working days of the receipt of the written complain after initial scrutiny/fact finding.

16. Attendance Policy

16.1. Attendance in classes is mandatory especially in a semester system. Students need to maintain minimum attendance (>75 %) in a course to complete the requirements of a course.

16.2. The instructor should inform student about his attendance and must report in written student's absences at-least once before mid-term examination to his departmental chairperson. The department should officially warn the student via notice to maintain minimum attendance to qualify for final examination immediately after midterm examination.

16.3. A student may be stopped from appearing in the course final examination if he is unable to maintain minimum attendance in that specific course. He will be assigned "F" grade in that course and need to re-register in the course.

16.4. A student with exceptional cases such as serious accident or serious health ailment may request in written with a official hospital discharge sheet and medical report for relaxation upto further 10% to Departmental Chairperson through course instructor. However this cannot be availed more than twice during the whole student tenure.

DEPARTMENT OF BIOMEDICAL ENGINEERING

VISION

To become a top tier Department of Biomedical Engineering across the nation by imparting engineering knowledge to serve healthcare industry with excellence.

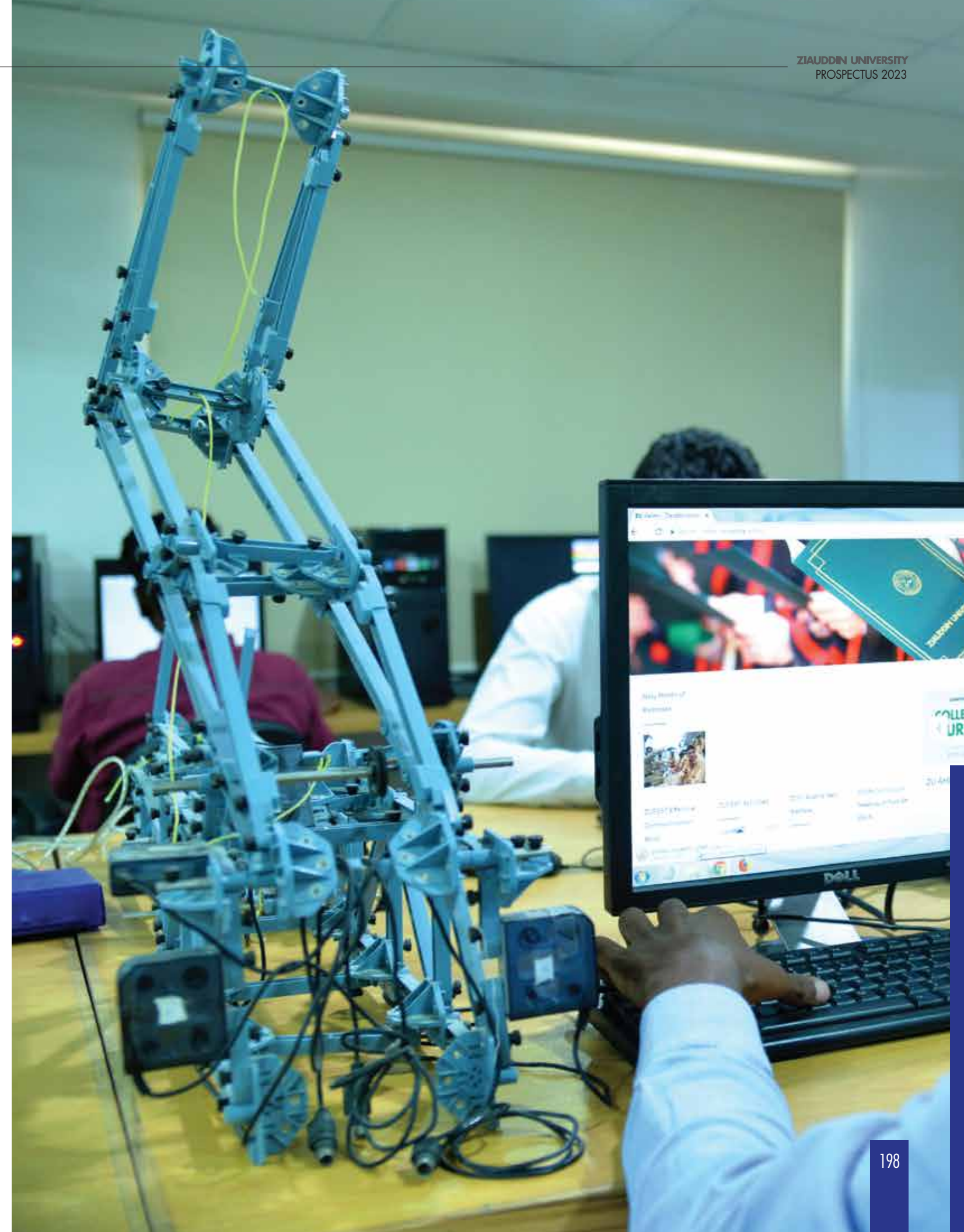
MISSION

The Department of Biomedical Engineering aims to serve the society in the best manner wherein the graduates will be equipped with required technical and interpersonal skills, motivated for research and lifelong learning; ethical values along with leadership and entrepreneurship qualities.

INTRODUCTION

Ziauddin University, Faculty of Engineering Science and Technology is offering 4 years bachelor programme entitling BE Biomedical Engineering at Ziauddin University, Biomedical Engineering is more focused on the instrumentation and biomedical computing. The instrumentation or more formerly Bio-Instrumentation is the field for travel enthusiastic person, as the installation, sales and service of the biomedical instruments. It keeps the engineers on the wheel, in order to maintain the instruments operational for the patient support in hospitals, pharmaceutical industries and healthcare laboratories. Moreover, the instrumentation track of Biomedical Engineering also serves

humanity by developing assistive devices for patients and elderly people. The patient can wear the robotic suits, also known as exo-skeleton. These suits assist the wearer in achieving the mobility they lost due to disease, trauma or age factor. Also, the development and rehabilitation of artificial limbs lies under the umbrella of instrumentation track. The emerging focused area of Biomedical Engineering at ZUFEST shall be Biomedical Computing. The biomedical computing facilitates the development of complex biomedical systems like clinical and computer-based decision support, knowledge acquisition and management, medical imaging, computational intelligence in bio-clinical medicine, molecular medicine, and healthcare organizational aspects. It implies the use of Artificial intelligence for the purpose of machine learning, bioinformatics for genes and protein modelling, and Medical Image Processing. In order to incorporate these skills with the knowledge of the students, Biomedical Engineering at ZUFEST introducing Telemedicine system, Computational Fluid Dynamics, Bioinformatics, and Hospital information system. Five batches of Biomedical Engineering have been successfully passed out and accredited by PEC, and almost all the students are well placed at suitable biomedical jobs in the market. The curriculum is in line with HEC/NCRC.



BE BIOMEDICAL ENGINEERING

INTRODUCTION

After the COVID 19 pandemic, the need of ventilators, masks, face shields, assistive respiratory devices and SPO2 Monitor has suddenly increased which marks the importance of biomedical engineering field which merges the electronics, mechanical & computer principle with health care industry. As a graduate of this programme of top-ranking university, you will have the confidence and ability to communicate with different players in the life science fields, from clinicians and nurses to designers, scientists and other engineers.

FACILITIES

1. Level II Washington Accord Accreditation by Pakistan Engineering Council
2. Purpose-built Campus at Education City (Link Road)
3. Ziauddin Hospital Facility available for trainings/internships
4. Top students shall be facilitated to get jobs right after graduation

5. Fully Equipped Classrooms
6. State of the art labs
7. Latest book available in Library
8. E-access available, HINARI, PERN, IEEE (Digital Library)
9. PhD Faculty
10. Financial Assistance available
11. Flavour of Artificial Intelligence, instrumentation, mechanics, materials, biotechnology & genetic engineering
12. IEEE chapter of the campus
13. Industrial Collaboration
14. Sports activities, picnic and extracurricular activities

CAREER PROSPECTS

- Research Assistant
- Health care researcher
- Sales Engineer
- Service Engineer
- Entrepreneur
- Biomedical Content Writer
- Scholarships at postgraduate level

ELIGIBILITY CRITERIA

S.No.	Programme	Eligibility	DAE	Pct.(%)
1	BE Biomedical Engineering	Inter (Pre Engg, Pre Med), A-level - Phy, Chem, (Bio or Maths)	i. Automation ii. Biomedical iii. Electrical iv. Electronics v. Healthcare vi. Instrumentation vii. Instrumentation & Process Control viii. Mechatronics ix. Radar x. Radio	60%

FEE STRUCTURE

BE Biomedical Engineering	Per Cr. Hr	Cr. Hrs.	Total (PKR)
Tuition	3,500	17	59,500
Examination	500	17	8,500
Semester Registration			5,000
Student Activity			2,000
Misc. Charges			45,000
Sub-Total			120,000
Admission (One Time Only)			10,000
Security Deposit (One Time Only and Refundable)			5,000
Grand Total (1st Semester)			135,000

DURATION OF PROGRAMME

Be Biomedical Engineering - 4 Years

LOCATION

Education City, Link Road, Gadap Town, Karachi

CONTACT INFORMATION

021-36644153, 021-36684406



BS FOOD SCIENCE AND TECHNOLOGY

INTRODUCTION

Food science and technology is a multidisciplinary field; it opens up a myriad of opportunities for a food technologist. They can work with a milk processing industry, a winery, bakery industry, meat processing, flavor development, etc. If you are a food lover, then, working in this industry would be like a dream come true. Creating and testing products will expose you to good food. You will also get an opportunity to explore new dishes and flavors.

Food science and technology serves those who have interest in serving society by assuring availability, abundance, affordability, wholesomeness and safety of food. A degree in food science offers many opportunities to earn top-salaries with a good growth rate. Nobody can survive without eating food. Therefore, food industries will always keep processing food and hiring professionals.

CAREER PROSPECTS

Food technology is a growing industry of Pakistan's total food exports. There is a high demand of trained food professional in both government and private sector. Graduates from the department can work as a food technologist in production/operation/ QA/QC. They can also serve as a research and development analyst for development of new product and processes. A food technologist is not only involved in the food processing, but also in designing of the food plant and various equipment used in processing. They can also involve in the safety and regulatory aspects of the developed product, inspection and accreditation of the food plant etc.

Graduates from food science and technology programme can serve in multidisciplinary fields

- Food manufacturing companies
- Research laboratories

ELIGIBILITY CRITERIA

S.No.	Programme	Eligibility	DAE
1	BS Food Science & Tech.	Inter (Computer, Pre Engg, Pre Med), A-level – Phy, Chem, (Bio or Maths)	DAE any or Diploma in Homeopathic, Medical Tech – 3 year

FEE STRUCTURE

BS Food Science & Technology	Per Cr. Hr	Cr. Hrs.	Total (PKR)
Tuition	3,500	15	52,500
Examination	500	15	7,500
Semester Registration			5,000
Student Activity			2,000
Sub-Total			67,000
Admission (One Time Only)			10,000
Security Deposit (One Time Only and Refundable)			5,000
Grand Total (1st Semester)			82,000

DURATION OF PROGRAMME

BS Food Science and Technology - 4 Years

LOCATION

F-103, Block-B Block B North Nazimabad Town, Karachi, Sindh 74600

CONTACT INFORMATION

021-36644153, 021-36684406



BS BIOTECHNOLOGY

INTRODUCTION

Biotechnology is one of the most progressive, advanced, evolving and fruitful branches of science and technology. It is an interdisciplinary field deals with chemistry, physics, biology, mathematics and engineering concepts that are pooled together to develop technologies for the betterment of human life. It will provide you with the opportunity to enhance your research skills in using biological principles and systems to create new products, services and industries. Biotechnology is not confined or bound as a single discipline but includes many interdisciplinary fields of science rapidly gaining significance and opportunities for youngsters who want to explore the new frontiers of science.

CAREER PROSPECTS

- Biotechnology has a huge variety of career opportunities extending from the research and

development to sales and marketing from manufacturing to quality control and assurance in industrial sector such as textiles industry, food & beverages industry, biological products, medicines and pharmaceuticals. Moreover, biotechnologist can fit in the Agriculture, Animal Technician, Animal Husbandry, Clinical Research Associate, Documentation Coordinator, Bioinformatics Specialist Environment Conservation, Forensic DNA Analyst, Genetic Engineering, Greenhouse And Field Technician, Health Care, Industrial Research And Development Medicine, Instrumentation/Calibration Technician, Laboratory Automation Specialist, Laboratory Technician, Manufacturing Assistant, Quality Control Technician, Quality Assurance Specialist, Research Associate, Sales Representative. It is predicted that biotechnology will become one of the most important applied sciences of this century.

ELIGIBILITY CRITERIA

S.No.	Programme	Eligibility	DAE
1	BS Biotechnology	Inter (Computer, Pre Engg, Pre Med), A-level – Phy, Chem, (Bio or Maths)	DAE any or Diploma in Homeopathic, Medical Tech – 3 year

FEE STRUCTURE

BS Biotechnology	Per Cr. Hr	Cr. Hrs.	Total (PKR)
Tuition	3,500	15	52,500
Examination	500	15	7,500
Semester Registration			5,000
Student Activity			2,000
Sub-Total			67,000
Admission (One Time Only)			10,000
Security Deposit (One Time Only and Refundable)			5,000
Grand Total (1st Semester)			82,000

DURATION OF PROGRAMME

BS Biotechnology - 4 Years

LOCATION

F-103, Block-B Block B North Nazimabad Town, Karachi, Sindh 74600

CONTACT INFORMATION

021-36644153, 021-36684406



BS BIOMEDICAL ENGINEERING TECHNOLOGY

INTRODUCTION

With a degree in Biomedical Engineering Technology, students are prepared for entry-level jobs trouble shooting, diagnosing, repairing and calibrating biomedical equipment. The evening programme allows them to continue their education without compromising with their job responsibilities. This will not only provide them with ease of mind but also enable them for self-sustainability. Studying biomedical engineering technology at university will help equip

you with a range of transferable skills that are highly desirable to employers across a variety of industries and professions.

CAREER PROSPECTS

- Sales and Service Engineer
- Clinical Engineer
- Entrepreneur
- Foreign Scholarships at Postgraduate level
- Research Associates / Assistants

ELIGIBILITY CRITERIA

S.No.	Programme	Eligibility	DAE	Pct.(%)
1	BS Biomedical Engineering Technology	Inter (Pre Engg, Pre Med) , A-level - Phy, Chem, (Bio or Maths)	DAE any or Diploma any - Inter Equ	50%

FEE STRUCTURE

BS Biomedical Engineering Technology	Fee Structure
Tuition	8,500/ month
Admission (One Time Only)	15,000
Security Deposit (One Time Only and Refundable)	5,000
Sub Total (1st Semester)	28,500
Grand Total (1st Semester)	71,000

DURATION OF PROGRAMME

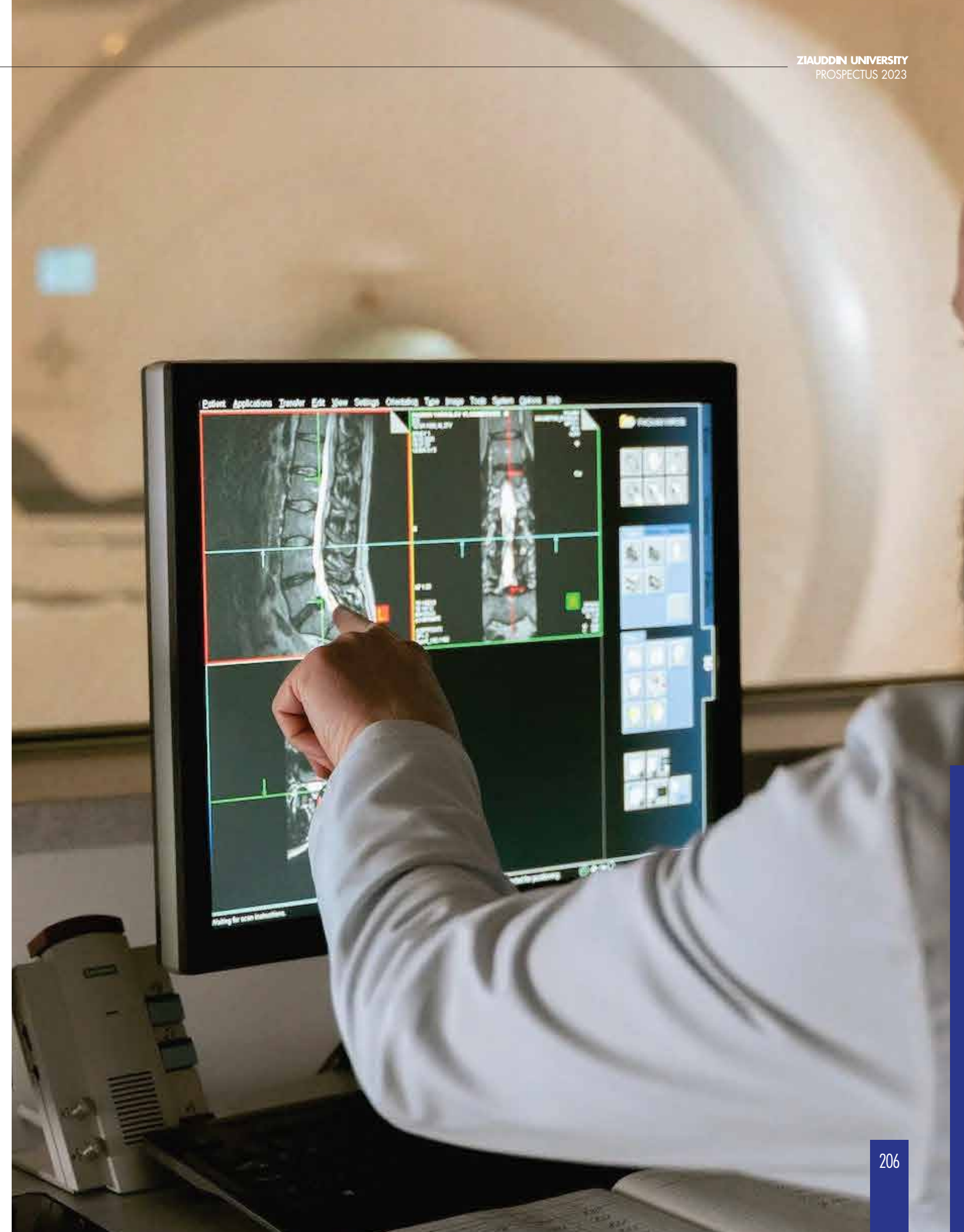
BS Biomedical Engineering Technology - 4 Years

LOCATION

F-103, Block-B Block B North Nazimabad Town,
Karachi, Sindh 74600

CONTACT INFORMATION

021-36644153, 021-36684406



DEPARTMENT OF CIVIL ENGINEERING

INTRODUCTION

The Department of Civil Engineering was established in 2017 under the Faculty of Engineering, Science, Technology and Management (ZUFESTM) with the aim to produce proficient scientists, engineers, and technologists equipped to meet the evolving demands of the industry. The department is currently offering two undergraduate and one postgraduate programmes, approved by the Higher Education Commission (HEC), at the Link Road Campus, Karachi.

The Department of Civil Engineering is committed to provide cutting-edge laboratory facilities, an interactive learning environment and highly qualified faculty members. The department is well equipped with laboratories of Surveying, Engineering Mechanics, Fluid Mechanics & Hydrology, Mechanics of Solids, Construction Engineering, Material Testing, Drawing studio and Computing Lab. A strong emphasis is placed on the practical application of knowledge, ensuring a balanced integration of theory and hands-on experience. The faculty members bring a depth of industrial and academic expertise to the table, enriching the learning process. To further support students, a dedicated team of lab staff and attendants is maintained. In the pursuit of advancing the frontiers of Civil Engineering research, the Dr. Aijaz Fatima Library has an extensive collection of Civil Engineering titles tailored to various specializations at the Link Road Campus.

Furthermore, the department takes pride in its PEC and NTC accreditations for its programmes, as well as the alignment of its curriculum with HEC/NCRC standards.

The Department of Civil Engineering is dedicated to fostering a vibrant academic community where innovation and collaboration thrive. The aim is to empower students to make informed choices and contribute effectively to the ever-evolving landscape of Civil Engineering, equipped with both theoretical knowledge and practical skills. Students are encouraged to engage in research projects, internships, and extracurricular activities that not only enhance their academic journey but also prepare them for real-world challenges in the field. As students progress through the programmes, they develop the technical prowess and discerning capabilities necessary to excel in the field of Civil Engineering. Through a holistic approach to education, the department strives to produce graduates who not only excel in their technical skills but also possess strong problem-solving abilities, effective communication skills, and a deep commitment to ethical practices in Civil Engineering. Overall, this effort is shaping the future of the industry and empowering students to become leaders in their chosen fields.



B.E. CIVIL ENGINEERING

(PEC Accredited Programme)

MISSION

To produce versatile professionals with diverse technical knowledge, leadership skills, and ethical awareness, driving innovation through sustainable solutions, fostering impactful careers through dynamic learning and professional excellence, while also contributing to socioeconomic advancement.

INTRODUCTION

The B.E. Civil Engineering programme is designed to equip students with the knowledge and skills necessary to thrive in the dynamic field of civil engineering. Civil Engineering plays a crucial role in shaping our built environment, encompassing the design, construction, and maintenance of infrastructure essential to society. From bridges and highways to buildings and water supply systems, civil engineers are at the forefront of creating sustainable and innovative solutions to meet the evolving needs of our modern world.

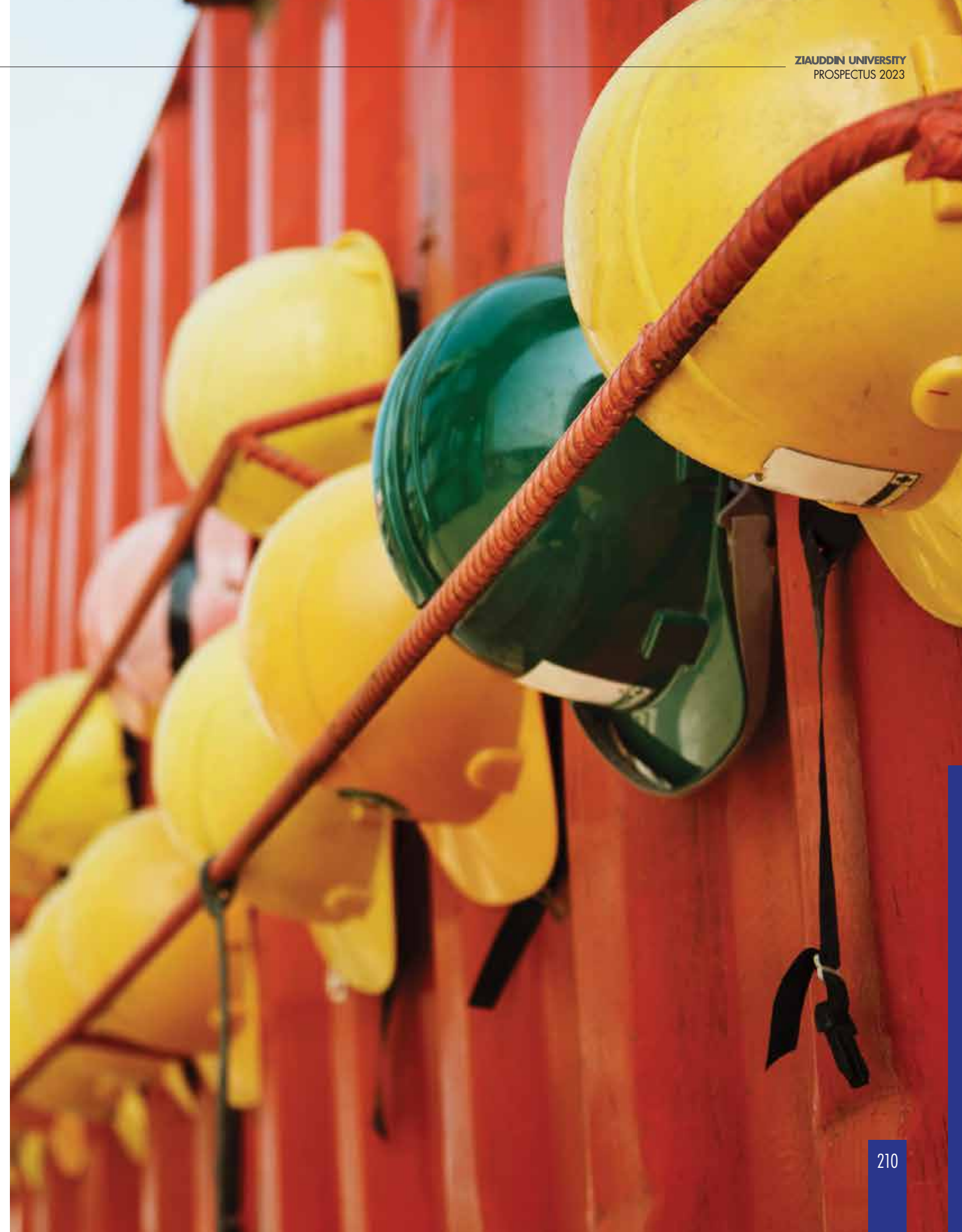
During this comprehensive program, students will delve into various disciplines within civil engineering, gaining a solid foundation in core concepts and techniques. They will learn to analyze and design structures, develop sustainable infrastructure, and tackle challenges related to transportation, environmental impact, and urban development. By merging theory with practical applications, students will acquire the necessary skills to become proficient problem-solvers, effective communicators, and ethical professionals in the field.

The programme offers a diverse curriculum that covers key areas such as structural engineering, geotechnical engineering, transportation engineering, water resources

engineering, and construction management. Students will engage in hands-on projects, laboratory work, and internships to gain valuable real-world experience. Additionally, they will have access to state-of-the-art facilities and cutting-edge software tools, enabling them to simulate and analyze complex engineering scenarios.

CAREER PROSPECTS

1. Graduates have the opportunity to embark on entrepreneurial ventures, establishing their construction firms or consultancy businesses, offering services as contractors and designers.
2. Graduates can apply their expertise in water resources, contributing to projects involving the construction of dams, barrages, culverts, and other critical infrastructure.
3. Graduates can make a significant impact by contributing their skills to enhance Irrigation Engineering in underdeveloped regions of Pakistan, improving agricultural productivity and water management.
4. Collaborating with transportation companies, graduates can conduct vital studies such as traffic management, safety assessments, signage planning, road furniture design, and infrastructure enhancement projects, ensuring smoother and safer journeys.
5. Graduates can contribute their knowledge to soil testing laboratories, ensuring the quality and safety of construction projects by analyzing soil properties and making recommendations.
6. Graduates can play a pivotal role in industries related to wastewater treatment and solid waste management, aligning with the scope of projects like the China-Pakistan Economic Corridor (CPEC) to promote environmental sustainability and responsible resource management.



BS CIVIL ENGINEERING TECHNOLOGY

(NTC Accredited Programme)

MISSION

To produce graduates with essential technical knowledge, practical skills and capacity development, enabling them to effectively lead the industry through the implementation of project management lifecycle, innovative sustainable practices, and a strong societal and ethical awareness.

INTRODUCTION

The field of Civil Engineering Technology is experiencing a growing demand as the market continually evolves. This increasing demand is closely tied to the rapid expansion of high-rise buildings and infrastructure projects. Consequently, there is an urgent need for individuals to become part of the broader civil engineering technology profession to meet these dynamic challenges.

Civil Engineering Technology encompasses a range of focused areas, providing students with a diverse and comprehensive skill set. These specialized areas include Construction Management, which equips students with the expertise to oversee complex construction projects efficiently. Additionally, students delve into Traffic and Transportation, where they learn to address traffic flow and transportation network optimization, crucial for urban planning and development. Geotechnical and Foundation Works is another essential facet, enabling students to understand soil mechanics, foundation design, and the critical role they play in constructing safe and stable structures. Coastal and Harbour Works delve into the intricate world of coastal engineering, preparing students to tackle the unique challenges posed by maritime environments. Environmental Assessment is yet another vital component, where students learn to evaluate the environmental impact of engineering projects, ensuring sustainable practices.

The Civil Engineering Technology programme is designed to be accessible and beneficial to a diverse range of students. Whether one has

embarked on a mixed venture career path, faced time constraints, or has work-related responsibilities, the programme is structured to accommodate their needs. It is understood that not everyone follows a linear academic trajectory, and students who may not have initially qualified for traditional engineering programs due to fluctuations in academic performance are welcomed.

The department is committed to providing a supportive and inclusive learning environment where students can acquire the knowledge and skills necessary to thrive in the dynamic and ever-expanding field of Civil Engineering Technology. By joining this program, students become part of a community dedicated to shaping the future of infrastructure and construction, ensuring the sustainable development of our cities and environments.

CAREER PROSPECTS

1. Graduates can pursue careers as infrastructure project managers, overseeing large-scale infrastructure projects such as highways, bridges, and utility systems, ensuring their successful completion and compliance with regulations.
2. Graduates can focus on urban planning, revitalization, and development, contributing to the growth and improvement of cities and metropolitan areas.
3. Graduates can explore roles in technology and innovation, working on the development of new construction technologies, materials, and methodologies to improve efficiency and sustainability in the construction industry.
4. Graduates can work as sustainability consultants, helping organizations and communities develop eco-friendly and sustainable infrastructure projects, aligning them with environmental regulations and sustainable practices.
5. Graduates can start their own construction-related businesses, offering a wide range of services, from construction management and consulting to materials testing and inspection services.

ELIGIBILITY CRITERIA

S.No.	Programme	Eligibility	DAE	Pct.(%)
1	BS Civil Engineering Tech.	Inter (Computer, Pre Engg, Pre Med) , A-level (Phy, Chem, Maths)	i. Architecture ii. Civil iii. Civil with any specialization iv. Environmental v. Land & Mine Surveying	50%
2	BE Civil Engineering	Inter (Computer, Pre Engg, Pre Med) , A-level (Phy, Chem, Maths)	i. Architecture ii. Civil iii. Civil with any specialization iv. Environmental v. Land & Mine Surveying	60%

FEE STRUCTURE

BE Civil Engineering	Per Cr. Hr	Cr. Hrs.	Total (PKR)
Tuition	4,000	17	68,000
Examination	500	17	8,500
Semester Registration			5,000
Student Activity			2,000
Misc. Charges			45,000
Sub-Total			128,500
Admission (One Time Only)			10,000
Security Deposit (One Time Only and Refundable)			5,000
Grand Total (1st Semester)			143,5000

BS Civil Engineering Technology	Fee Structure
Tuition	8,500/ Month
Admission (One Time Only)	15,000
Security Deposit (One Time Only and Refundable)	5,000
Sub Total (1st Semester)	28,500'
Grand Total (1st Semester)	71,000

DURATION OF PROGRAMME

BE Civil Engineering
04 Years

BS Civil Engineering Technology
04 Years

LOCATION

BE Civil Engineering
Education City, Link Road, Gadap Town, Karachi

BS Civil Engineering Technology
F-103, Block-B Block B North Nazimabad Town,
Karachi, Sindh 74600

CONTACT INFORMATION

021-36644153, 021-36684406

DEPARTMENT OF ELECTRICAL ENGINEERING

MISSION

To impart quality education in electrical engineering technology and produce graduates that conduct research, develop technologies and contribute to the national and international scientific and socioeconomic growth.

INTRODUCTION

The Department of Electrical Engineering, established in 2017 under Ziauddin University Faculty of Engineering, Science, Technology, and Management (ZUFESTM), has the primary goal of producing high-quality scientists for research and development, as well as engineers and technologists equipped with the necessary skill set to meet market demands. Located at the North Nazimabad Campus in Karachi, the department offers three undergraduate and two postgraduate programmes, all of which are approved by the Higher Education Commission (HEC). Furthermore, the department boasts state-of-the-art laboratories for both undergraduate and postgraduate students, along with research facilities, and is staffed by a highly qualified faculty with extensive

industrial and academic experience in their respective areas of expertise.

The programmes offered include a BE in Electrical Engineering and a BS in Internet of Things (IoT) in the morning, and a BS in Electrical Engineering Technology in the evening. These undergraduate programmes typically span four years (8 semesters). The BE Electrical Engineering programme holds accreditation from the Pakistan Engineering Council (PEC), while the BS Electrical Engineering Technology programme is accredited by the National Technology Council (NTC).

The MS in Electrical Engineering typically spans one and a half years (3 semesters) and is offered with the option of either a coursework-based approach involving 10 courses or a coursework-based approach with 8 courses plus a thesis. The Ph.D. in Electrical Engineering is typically a four-year (8 semesters) programme offered with a coursework and dissertation requirement. Both programmes are approved by the Higher Education Commission (HEC).

LOCATION

F-103, Block-B Block B North Nazimabad Town, Karachi, Sindh 74600

CONTACT INFORMATION

+92 (213) 664-4153, +92 (213) 668-4406

BE ELECTRICAL ENGINEERING

INTRODUCTION

Electrical Engineering encompasses the study, design, and application of equipment, devices, and systems that utilize electricity and electronics. The Department of Electrical Engineering at Ziauddin University, North Nazimabad, Karachi, offers a Bachelor of Engineering (BE) programme in Electrical Engineering, typically spanning four years (8 semesters) and conducted in the morning. This programme is approved by the Higher Education Commission (HEC) and accredited by the Pakistan Engineering Council (PEC).

ELIGIBILITY CRITERIA

HSc., (Pre-Engineering) or A-Level (with Physics, Mathematics and Chemistry) or DAE in (Electrical / Electronics), with 60% and above.

SCOPE AND OPPORTUNITIES

An Electrical Engineering Graduate is capable of:

- Design, plan, research, evaluate and test electrical and electronic equipment and systems.
- Employed by electrical utilities, communication companies, manufacturers of electrical and electronic equipment, consulting firms.

CAREER PROSPECTS

A BE Electrical Engineering opens up a wide range of career prospects for graduates such as:

Electrical / Electronic Engineer, Control Systems Engineer, Power Systems Engineer, Renewable Energy Engineer, Telecommunications Engineering, Instrumentation Engineer, Entrepreneur, Academic and Research Positions.

FEE STRUCTURE

BE Electrical Engineering Fee Structure	Per Cr. Hr.	Cr. Hrs.	Total (PKR)
Tuition	2,700	17	45,900
Examination	250	17	4,250
Semester Registration			5,000
Student Activity			2,000
Sub-Total			57,150
Admission (One Time Only)			10,000
Security Deposit (One Time Only and Refundable)			5,000
Grand Total (1st Semester)			72,150

Note: The University reserves the right to modify the fees (if required). Fees once deposited is non-refundable, except security deposit. Admission processing fee PKR 2500 is applicable.



BS ELECTRICAL ENGINEERING TECHNOLOGY

INTRODUCTION

Electrical Engineering Technology involves the study of machines, equipment, and systems related to electricity. The Department of Electrical Engineering at Ziauddin University, North Nazimabad, Karachi, offers a Bachelor of Science (BS) in Electrical Engineering Technology, typically spanning four years (8 semesters) as an evening programme. This programme is approved by the Higher Education Commission (HEC) and accredited by the National Technology Council (NTC).

ELIGIBILITY CRITERIA

H.Sc. (Pre-Engineering / Computer Science), or A-level, or DAE (in Electrical/Electronics or a relevant trade) with 50% marks and above.

SCOPE AND OPPORTUNITIES

An Electrical Engineering Technology Graduate is capable of:

- Develop electrical products, conduct electrical system testing, engaging in technical sales, and provide field service.
- Employed by electrical power generation and transmission companies, construction firms and, manufacturing Industries.

CAREER PROSPECTS

A BS Electrical Engineering Technology opens up a wide range of career prospects for graduates such as:

- Electrical Technologist, Electronics Technician, Control System Technician, Power System Technician, Automation Technician, Instrumentation Technician, Telecommunications Technician, Field Service Technician.

FEE STRUCTURE

BS Electrical Engineering Technology Fee Structure	Fee (PKR)
Admission Fee (One time only)	15,000
Security Deposit (One time only and refundable)	5,000
Monthly Fee (Payable each month for the duration of studies)	8,500
Total (1 st month at the time of admission)	28,500

Note: The University reserves the right to modify the fees (if necessary). Fees, once deposited, are non-refundable, except for the security deposit. An application processing fee of PKR 2,500 is applicable.

BS INTERNET OF THINGS (IOT)

INTRODUCTION

The Internet of Things (IoT) facilitates connectivity among a collection of physical devices equipped with sensors for data exchange over the Internet and communication networks. The Department of Electrical Engineering at Ziauddin University, North Nazimabad, Karachi, offers a Bachelor of Science (BS) programme in Internet of Things (IoT), typically spanning four years (8 semesters) as a morning programme.

ELIGIBILITY CRITERIA

HSc., (Pre-Engineering / Pre-Medical or Computer Science) or A-Level or DAE in (Electrical / Electronics / Computer Information Technology or Equivalent). Students with pre-medical background are required to take an additional mathematics course.

SCOPE AND OPPORTUNITIES

An Internet of Things (IoT) Graduate is capable of:

- Cross-Industry Applicability, Growing Demand, Innovation and Entrepreneurship, Global Opportunities, Interdisciplinary Roles.

CAREER PROSPECTS

A BS IoT Graduate is capable of:

- IoT Developer, IoT Solutions Architect, Embedded Systems Engineer, IoT Security Specialist, IoT System Integrator, IoT Researcher, IoT in Industrial Automation, IoT in Energy Management.

FEE STRUCTURE

BS IoT Fee Structure	Per Cr. Hr.	Cr. Hrs.	Total (PKR)
Tuition	2,700	17	45,900
Examination	250	17	4,250
Semester Registration			5,000
Student Activity			2,000
Sub-Total			57,150
Admission (One Time Only)			10,000
Security Deposit (One Time Only and Refundable)			5,000
Grand Total (1st Semester)			72,150

Note: The University reserves the right to modify the fees (if required). Fees once deposited is non-refundable, except security deposit. Admission processing fee PKR 2500 is applicable.



MS ELECTRICAL ENGINEERING

INTRODUCTION

The Master of Science (MS) programme in Electrical Engineering generally extends over one and a half years, comprising three semesters. Students have the flexibility to choose between two programme tracks: one centered on coursework with ten courses or an alternative track featuring eight courses combined with a thesis project. Within this program, students can specialize in one of three areas of focus: (a) Control and Automation, (b) Computer and Communication Networks, or (c) Telecommunication Systems.

ELIGIBILITY CRITERIA

Applicants are required to have completed 16 years of education in the relevant discipline with a minimum CGPA of 2.0/4.0 or 60% marks.

FEE STRUCTURE

MS Electrical Engineering Fee Structure	Per Cr. Hr.	No. of Courses	Total (PKR)
Tuition Fee per course	13,000	3	39,000
Examination Fee per course	2,000	3	6,000
Admission (One Time Only)	-	-	15,000
Security Deposit (One Time Only and Refundable)	-	-	5,000
Enrollment Fee	-	-	5,000
Grand Total (1st Semester)			70,000

Note: The University reserves the right to modify the fees (if required). Fees once deposited is non-refundable, except security deposit. Admission processing fee PKR 2500 is applicable.

Additionally, they must either pass the HEC/NTS HAT (general) or successfully pass the university admission test, followed by an interview.

SCOPE AND OPPORTUNITIES

An MS Electrical Engineering Graduate is capable of:

- Research and Development, Academia, Consulting, Entrepreneurship, Management Roles, Global Opportunities.

CAREER PROSPECTS

An MS Electrical Engineering Graduate is capable of:

- Electrical Engineer, Control Systems Engineer, Electronics Engineer, Power Systems Engineer, Research Scientist, Technical Manager, Consultant / Advisor, Quality Assurance Engineer.

PhD ELECTRICAL ENGINEERING

INTRODUCTION

The Ph.D. in Electrical Engineering is an advanced and rigorous academic programme, typically lasting four years (8 semesters). It is designed to impart students with profound expertise in the dynamic field of electrical engineering. This comprehensive programme incorporates a complex blend of coursework and dissertation research, offering candidates a well-rounded education and an in-depth understanding of the subject matter. Within the Ph.D. programme, students have a unique opportunity to specialize in one of three distinct and crucial areas: (a) Electrical/Electronic Engineering, (b) Computer Engineering, or (c) Telecommunication Engineering.

ELIGIBILITY CRITERIA

To apply for the Ph.D. in Electrical Engineering, candidates require 18 years of relevant education, a CGPA of 3.0/4.0 or a First Division in M.Phil/M.S/Equivalent. Additionally, they

must pass the NTS/HEC HAT (Subject) with a minimum score of 60% or the university admission test with a qualifying score of 70%. These scores must be submitted before or during the first semester.

SCOPE AND OPPORTUNITIES

A PhD Electrical Engineering Graduate is capable of:

- Advanced Research, Academic Career, Industry Research and Development, Consulting, Entrepreneurship, International Collaboration.

CAREER PROSPECTS

A PhD Electrical Engineering Graduate is capable of:

- Research Scientist, University Professor, Director of Research and Development, Principal Engineer, Technical Consultant, Energy and Sustainability Expert, Advanced Control Systems Engineer.

FEE STRUCTURE

PhD Electrical Engineering Fee Structure	Per Cr. Hr.	No. of Courses	Total (PKR)
Tuition Fee per course	15,000	3	45,000
Examination Fee per course	3,000	3	9,000
Admission (One Time Only)	-	-	20,000
Security Deposit (One Time Only and Refundable)	-	-	5,000
Enrollment Fee	-	-	10,000
Grand Total (1st Semester)			89,000

Note: The University reserves the right to modify the fees (if required). Fees once deposited is non-refundable, except security deposit. Admission processing fee PKR 2500 is applicable.



DEPARTMENT OF COMPUTER SCIENCE AND SOFTWARE ENGINEERING

VISION

To be recognized as academic leaders, experts and innovators in the diverse and ever evolving disciplines of computing.

INTRODUCTION

Welcome to the Department of Computer Science and Software Engineering at Ziauddin University. We are delighted that you have taken the first step in exploring the limitless possibilities that a career in technology can offer. Our department is a vibrant and innovative hub where cutting-edge research, hands-on learning, and real-world applications converge to shape the future of computing.

In today's fast-paced and interconnected world, technology plays a pivotal role in shaping every aspect of our lives. From the apps we use on our smartphones to the complex algorithms powering the next breakthroughs in artificial intelligence, the impact of computer science and software engineering is profound and far-reaching. It is an exciting time to embark on a journey into the world of computing, and our department is here to guide you every step of the way.

Our commitment to excellence is reflected in our dedicated faculty, who are not only experts in their fields but also passionate educators. They bring a wealth of knowledge, industry experience, and a deep understanding of the rapidly evolving tech landscape to the classroom. Whether you are interested in designing the next big software application, unraveling the mysteries of machine learning, or securing the digital world against cyber

threats, our faculty will provide you with the guidance and mentorship you need to thrive. At Ziauddin University, we understand that learning by doing is key to mastering the art and science of computer technology. Our state-of-the-art laboratories, collaborative project spaces, and internship opportunities with industry-leading companies will ensure that you gain practical experience and valuable skills that are in high demand in the job market.

We also believe in fostering a diverse and inclusive community where students from all backgrounds can thrive. Innovation thrives when diverse perspectives come together, and we are committed to creating an environment where everyone can excel.

We invite you to explore our website, meet our faculty, learn about our research projects, and discover the exciting opportunities that await you. If you are a parent, we understand that choosing the right educational path for your child is a significant decision, and we are here to provide you with all the information and support you need to make an informed choice.

Thank you for considering the Department of Computer Science and Software Engineering at [Your University's Name] as your educational home. We look forward to welcoming you to our community, where innovation knows no bounds, and the future of technology is yours to shape. Join us on this thrilling journey of discovery, creativity, and limitless possibilities.

BS COMPUTER SCIENCE

MISSION

To provide students with a solid foundation in fundamental knowledge, design and development principles, ethical practices, effective communication skills, and the ability to work collaboratively in teams leading to ever-evolving technological landscape.

INTRODUCTION

Welcome to the 4-Year Bachelor of Science in Computer Science programme at Ziauddin University.

In today's digital era, computer science stands as the driving force behind innovation, fundamentally shaping our daily lives, our workplaces, and the world at large. If you're driven by curiosity, possess a passion for problem-solving, and aspire to play a pivotal role in defining the future of technology, our computer science programme is your gateway to an intellectually stimulating and rewarding career.

At Ziauddin University, we believe that computer science is not merely about writing lines of code; it's about crafting solutions to intricate challenges, engineering ground breaking software and systems, and pushing the boundaries of technological possibilities. Our programme is thoughtfully designed to provide you with a holistic and rigorous education in computer science, equipping you with the skills and knowledge necessary to excel in this ever-evolving field.

Our commitment to academic excellence is unwavering. Our distinguished faculty members are leaders in the realm of computer science, deeply dedicated to fostering your success. You'll have the privilege of learning from experts who are not only passionate about teaching but also actively engaged in pioneering research, ensuring that you receive a world-class education.

One of the distinctive features of our programme is the strong emphasis on hands-on learning. Throughout your academ-

ic journey, you'll engage in real-world projects, collaborate closely with faculty on ground breaking research initiatives, and have the opportunity to intern with renowned tech companies. This practical experience will not only reinforce your classroom learning but also provide you with a competitive edge in the job market.

As a computer science student at Ziauddin University, you'll have the flexibility to explore diverse areas within the field. Whether your interests lie in artificial intelligence, data science, cybersecurity, software engineering, or computer graphics, our programme offers a rich array of electives and concentrations to tailor your education to your passions and career aspirations.

Diversity and inclusion are at the heart of our programme. We firmly believe that the most innovative solutions emerge from diverse perspectives, and we eagerly welcome students from all backgrounds to join our inclusive community. Your unique experiences and viewpoints will contribute to the vibrant tapestry of ideas that propel innovation in computer science.

As you navigate our website, you'll discover comprehensive information about our curriculum, esteemed faculty members, research opportunities, and the exciting career pathways that await our graduates. We invite you to delve into these resources, pose any questions you may have, and envision the boundless possibilities that a degree in computer science from Ziauddin University can unlock for you.

Your journey toward becoming an adept computer scientist begins here, and we are thrilled to be a part of it. We eagerly await your arrival in our programme, where you'll acquire the knowledge and skills to shape the future of technology. Join us in embracing the thrilling adventure of computer science at Ziauddin University.

CAREER PROSPECTS

Students who pursue this degree will have the opportunity to gain expertise in various areas of the field, allowing them to pursue diverse career paths. Let's take a closer look at each focus area:

1. Artificial Intelligence: This specialization equips students with a deep understanding of AI principles and techniques. Graduates will be able to contribute to the development of intelligent systems and applications by leveraging their knowledge of machine learning, data analysis, and problem-solving.

2. Computer graphics: Students focusing on computer graphics will explore the world of visual computing. They will develop skills in creating and manipulating images, animations, and virtual environments. This specialization prepares graduates for careers in areas such as game development, animation, virtual reality, and computer-aided design.

3. Computer networking: This specialization focuses on the intricacies of network design, administration, and security. Students will gain expertise in building robust and efficient communication infrastructures. Graduates can pursue careers as network administrators, network engineers, or network security specialists.

4. Information security: With a focus on information security, students will learn about the complexities of safeguarding information and data. They will acquire skills in protecting against cyber threats and ensuring data

integrity. Graduates can pursue careers as cybersecurity analysts, information security consultants, or ethical hackers.

5. Machine learning: This specialization delves into machine learning algorithms and models. Students will learn how to extract insights and make predictions from complex datasets. Graduates will be well-equipped for roles such as machine learning engineers, data scientists, or AI researchers.

6. Robotics: Students focusing on robotics will explore the field of designing, programming, and controlling intelligent robots and autonomous systems. This specialization prepares graduates for careers in areas such as robotics engineering, automation, and artificial intelligence.

7. Software design and engineering: This specialization provides students with the necessary skills to develop high-quality software. They will learn about efficient design principles, coding practices, and software testing. Graduates can pursue careers as software engineers, software developers, or software architects.

By offering these diverse specializations, ZU's software engineering degree programme prepares students for a wide range of career opportunities. It allows them to explore their interests and develop expertise in specific areas of software engineering, making them well-rounded professionals in the field.

ELIGIBILITY CRITERIA

At least 50% marks in Intermediate (HSSC) examination with Mathematics or equivalent qualification with Mathematics, certified by IBCC. OR At least 50% marks in Intermediate (HSSC) examination with pre-Medical or

equivalent qualification, certified by IBCC.

Deficiency: Students with pre-medical must have to pass deficiency courses of Mathematics of 06 credit hours in first two semesters.

S.No.	Programme	Eligibility	DAE	Pct. (%)
1	BS COMPUTER SCIENCE	Inter (Computer, Pre-Engineering, Pre Med), A-level Physics, Chemistry, (Bio or Math's)	DAE Any	50%

FEE STRUCTURE

BS Software Engineering	Per Cr. Hr.	Cr. Hr.	Total (PKR)
Tuition	3500	16	56,000
Examination	500	16	8,000
Semester Registration			5,000
Student Activity			2,000
Sub-Total			69,500
Admission (One Time Only)			10,000
Security Deposit (One Time only and Refundable)			5,000
Grand Total (1 st Semester)			86,000

DURATION OF PROGRAMME

BS-COMPUTER SCIENCE - 04 YEARS

LOCATION

F-103, Block-B Block B North Nazimabad Town, Karachi, Sindh 74600

CONTACT INFORMATION

+92 (213) 664-4153, +92 (213) 668-4406



BS SOFTWARE ENGINEERING

MISSION

To instill our graduates with a strong foundation in software engineering principles, they will be well-prepared to analyze, design, develop, and optimize software systems with ethical standards that transform industries and society.

INTRODUCTION

Welcome to the 4-Year Bachelor of Science in Software Engineering Programme at Ziauddin University.

In today's digital age, software engineers are the architects and builders of the technology that drives our world. If you have a passion for problem-solving, creativity, and a desire to shape the future of technology, our software engineering programme is the perfect place for you to embark on an exciting and rewarding journey.

Software engineering is not just about writing code; it's about designing elegant solutions to complex problems, creating user-friendly applications, and ensuring the reliability and security of software systems. Our programme is meticulously designed to provide you with a well-rounded education in software engineering, equipping you with the skills and knowledge needed to thrive in this ever-evolving field.

At Ziauddin University, we take pride in our commitment to excellence in education. Our faculty members are accomplished experts in software engineering, and they are dedicated to helping you succeed. You will learn from industry professionals, engage in hands-on projects, and have access to cutting-edge technologies that will prepare you for a

successful career in software engineering.

Our programme places a strong emphasis on practical experience. You will have the opportunity to work on real-world projects, collaborate with industry partners, and intern with leading tech companies. This hands-on approach ensures that you graduate with not only theoretical knowledge but also the practical skills and industry insights that are highly valued by employers.

As a software engineering student at Ziauddin University, you will also have the chance to explore various specializations within the field. Whether your interests lie in web development, mobile app development, cloud computing, cybersecurity, or artificial intelligence, our programme offers a flexible curriculum that allows you to tailor your education to your passions and career goals.

We believe in fostering a supportive and inclusive learning environment. Diversity of thought and perspective is essential in software engineering, and we welcome students from all backgrounds to join our community. Your unique experiences and viewpoints will contribute to the rich tapestry of ideas that drive innovation in our field.

As you navigate our website, you'll find detailed information about our curriculum, faculty, research opportunities, and the exciting careers that await our graduates. We invite you to explore these resources, ask questions, and envision the possibilities that a degree in software engineering from Ziauddin University can offer you.

Your journey to becoming a skilled software

engineer starts here, and we are excited to be part of it. We look forward to welcoming you to our programme, where you will gain the expertise and confidence to create the software solutions of tomorrow. Join us in shaping the future of technology through the Bachelor of Science in Software Engineering programme at Ziauddin University.

CAREER PROSPECTS

Students who pursue this degree will have the opportunity to gain expertise in various areas of the field, allowing them to pursue diverse career paths. Let's take a closer look at each focus area:

1. Artificial Intelligence: This specialization equips students with a deep understanding of AI principles and techniques. Graduates will be able to contribute to the development of intelligent systems and applications by leveraging their knowledge of machine learning, data analysis, and problem-solving.

2. Computer graphics: Students focusing on computer graphics will explore the world of visual computing. They will develop skills in creating and manipulating images, animations, and virtual environments. This specialization prepares graduates for careers in areas such as game development, animation, virtual reality, and computer-aided design.

3. Computer networking: This specialization focuses on the intricacies of network design, administration, and security. Students will gain expertise in building robust and efficient communication infrastructures. Graduates can pursue careers as network administrators, network engineers, or network security specialists.

4. Information security: With a focus on information security, students will learn about the complexities of safeguarding information and data. They will acquire skills in protecting against cyber threats and ensuring data integrity. Graduates can pursue careers as cybersecurity analysts, information security consultants, or ethical hackers.

5. Machine learning: This specialization delves into machine learning algorithms and models. Students will learn how to extract insights and make predictions from complex datasets. Graduates will be well-equipped for roles such as machine learning engineers, data scientists, or AI researchers.

6. Robotics: Students focusing on robotics will explore the field of designing, programming, and controlling intelligent robots and autonomous systems. This specialization prepares graduates for careers in areas such as robotics engineering, automation, and artificial intelligence.

7. Software design and engineering: This specialization provides students with the necessary skills to develop high-quality software. They will learn about efficient design principles, coding practices, and software testing. Graduates can pursue careers as software engineers, software developers, or software architects.

By offering these diverse specializations, ZU's software engineering degree programme prepares students for a wide range of career opportunities. It allows them to explore their interests and develop expertise in specific areas of software engineering, making them well-rounded professionals in the field.



ELIGIBILITY CRITERIA

At least 50% marks in Intermediate (HSSC) examination with Mathematics or equivalent qualification with Mathematics, certified by IBCC. OR At least 50% marks in Intermediate (HSSC) examination with pre-Medical/Commerce or equivalent

qualification, certified by IBCC.

Deficiency: Students with pre-medical/Commerce must pass deficiency courses of Mathematics of 06 credit hours in first two semesters.

S.No.	Programme	Eligibility	DAE	Pct. (%)
1	BS SOFTWARE ENGINEERING	Inter (Computer, Pre Engineering, Pre Med), A-level Physics, Chemistry, (Bio or Math's)	DAE Any	50%

FEE STRUCTURE

BS Computer Science	Per Cr. Hr.	Cr. Hr.	Total(PKR)
Tuition	3500	16	56,000
Examination	500	16	8,000
Semester Registration			5,000
Student Activity			2,000
Sub-Total			69,500
Admission (One Time Only)			10,000
Security Deposit (One Time only and Refundable)			5,000
Grand Total (1 st Semester)			86,000

DURATION OF PROGRAMME

BS SOFTWARE ENGINEERING- 04 YEARS

LOCATION

F-103, Block-B Block B North Nazimabad Town, Karachi, Sindh 74600

CONTACT INFORMATION

+92 (213) 664-4153, +92 (213) 668-4406

BS DATA SCIENCE

MISSION

To produce graduates with a comprehensive education in Data Science, equipping them with the advanced knowledge and skills to extract meaningful insights from vast datasets and develop data-driven decision-making systems with ethical consideration and lifelong learning to drive positive change in the society.

INTRODUCTION

Welcome to our Data Science 4-Year Undergraduate programme!

In a world increasingly driven by data, there's no better time to embark on a journey into the fascinating realm of Data Science. Our Data Science programme at Ziauddin University is designed to equip you with the knowledge, skills, and practical experience needed to excel in this dynamic and high-demand field. Data Science is more than just a buzzword; it's a transformative discipline that sits at the intersection of computer science, statistics, and domain-specific expertise. It empowers us to extract meaningful insights, make informed decisions, and solve complex problems across industries and sectors. Whether it's predicting stock market trends, personalizing healthcare treatments, or enhancing user experiences in the digital world, data-driven solutions are shaping our future.

Our 4-year undergraduate programme in Data Science is meticulously crafted to provide you with a comprehensive and hands-on education. You'll delve into the core principles of statistics, machine learning, data analysis, and data visualization, gaining a solid foundation in the technical aspects of the field. Simultaneously, you'll explore the ethical and societal implications of data science, ensuring you're not just a data expert but also an ethical and responsible practitioner.

What sets our programme apart is the emphasis on real-world application. You'll have the

opportunity to work on industry-inspired projects, collaborate with faculty on cutting-edge research, and intern with leading companies to gain practical experience. Our faculty members are not only experts in their fields but are also deeply committed to your success, providing mentorship and guidance every step of the way.

As a Data Science student at Ziauddin University, you'll also benefit from a multidisciplinary approach. Data Science is not limited to a single domain; it spans fields as diverse as finance, healthcare, marketing, and environmental science. Our programme encourages you to explore these domains, developing domain-specific expertise that will set you apart in the job market.

We also recognize the importance of adaptability in a field that's constantly evolving. Our curriculum is designed to keep pace with the latest developments in Data Science, ensuring that you graduate with the most up-to-date knowledge and skills.

Whether you dream of becoming a data scientist, machine learning engineer, data analyst, or data-driven decision-maker, our Data Science programme will prepare you for success. The opportunities in this field are vast and diverse, and the skills you acquire will be in high demand across industries.

We invite you to explore our programme, meet our faculty, and envision the exciting possibilities that await you in the world of Data Science. Your journey starts here, and the future is yours to shape. Join us in unlocking the power of data to drive innovation, solve complex problems, and make a positive impact on the world. Welcome to the Data Science programme at Ziauddin University.

CAREER PROSPECTS

Students who pursue this degree will have the opportunity to gain expertise in various areas of

the field, allowing them to pursue diverse career paths. Let's take a closer look at each focus area:

1. Artificial Intelligence: This specialisation equips students with a deep understanding of AI principles and techniques. Graduates will be able to contribute to the development of intelligent systems and applications by leveraging their knowledge of machine learning, data analysis, and problem-solving.

2. Data Analytics: Our Data Analytics programme equips students with essential skills to extract insights from data, make informed decisions, and drive business growth. With hands-on experience and a focus on ethical data use, graduates are prepared for rewarding careers in data science and business intelligence. Join us to unlock your potential in the world of data analytics.

3. Quantitative Analysis: Quantitative analysis involves the application of mathematical and statistical methods to understand and solve complex problems. It is used in finance, economics, and operations research to make data-driven decisions.

4. Data Warehousing and Business Intelligence: Data warehousing and business intelligence are pivotal components of modern data-driven decision-making. Data warehousing involves the storage and organization of vast datasets from various sources, enabling efficient data retrieval and analysis. Business intelligence leverages these data warehouses to generate actionable insights, aiding organizations in making informed strategic decisions. Together, they empower businesses to gain a

competitive edge by transforming raw data into valuable information for better performance and growth.

5. Machine learning: This specialisation delves into machine learning algorithms and models. Students will learn how to extract insights and make predictions from complex datasets. Graduates will be well-equipped for roles such as machine learning engineers, data scientists, or AI researchers.

6. Robotics: Students focusing on robotics will explore the field of designing, programming, and controlling intelligent robots and autonomous systems. This specialisation prepares graduates for careers in areas such as robotics engineering, automation, and artificial intelligence.

7. Data Engineering: Data engineering focuses on the design and construction of data pipelines and infrastructure to ensure the efficient collection, storage, and retrieval of data. Data engineers build the foundation upon which data scientists and analysts can work.

8. Data Mining: Data mining is the process of discovering patterns, correlations, or hidden information in large datasets. It is widely used in marketing, fraud detection, and customer segmentation to uncover valuable insights.

By offering these diverse specialisations, ZU's software engineering degree programme prepares students for a wide range of career opportunities. It allows them to explore their interests and develop expertise in specific areas of software engineering, making them well-rounded professionals in the field.

ELIGIBILITY CRITERIA

At least 50% marks in Intermediate (HSSC) examination with Mathematics or equivalent qualification with Mathematics, certified by IBCC. OR At least 50% marks in Intermediate (HSSC) examination with pre-Medical/Commerce or equivalent qualification, certified by IBCC.

At least 50% marks in Intermediate (HSSC) examination with Mathematics or equivalent qualification with Mathematics, certified by IBCC. OR At least 50% marks in Intermediate (HSSC) examination with pre-Medical/Commerce or equivalent qualification, certified by IBCC.

Deficiency: Students with pre-medical/Commerce must have to pass deficiency courses of Mathematics of 06 credit hours in first two semesters.

S.No.	Programme	Eligibility	DAE	Pct. (%)
1	BS DATA SCIENCE	Inter (Computer, Pre Engineering, Pre Med) , A-level Physics, Chemistry, (Bio or Math's)	DAE Any	50%

FEE STRUCTURE

BS Data Science-Evening Fee Structure	Total (PKR)
Admission fee (One Time Only)	15,000
Security Deposit (One Time only and Refundable)	5,000
Monthly (payable each month for the duration of studies)	8500
Total	28,500/=

DURATION OF PROGRAMME

BS DATA SCIENCE- 04 YEARS

LOCATION

F-103, Block-B Block B North Nazimabad Town, Karachi, Sindh 74600

CONTACT INFORMATION

+92 (213) 664-4153, +92 (213) 668-4406



DEPARTMENT OF MANAGEMENT TECHNOLOGY & INFORMATION SCIENCE

MISSION

To produce quality graduates to add value as a critical component of corporate strategy and planning and lead economic development of Technology & Information Science sector through effective Research and Development, Entrepreneurship and lifelong learning.

INTRODUCTION

The Department of Management, Technology and Information Science at ZUFESTM, Ziauddin University focuses on Management in practice, industry-led entrepreneurial orientation and skill-based professional grooming of the students. The field of management science involves the use of analytical methods to make decisions about local and global business problems. The Department of Management, Technology and Information Science equips

students with all the tools required to cope with constantly rising business needs. The Department is equipped with experienced faculty with corporate experience and degrees from reputed Pakistani and foreign universities.

CAREER PROSPECTS

- Banks
- Business Advisory Services
- Houses of Business
- Educational Establishments
- Export Businesses
- Monetary Institutions
- Industrial Residences
- International Businesses
- Marketing Businesses
- Entrepreneur and family businesses

BACHELOR OF BUSINESS ADMINISTRATION (BBA)

SCOPE AND OPPORTUNITIES

The Bachelor of Business Administration (BBA) programme is tailored for individuals seeking to combine business theory, practical knowledge, and professional skills, in preparation for careers as business leaders. It offers a comprehensive professional business education within a broad framework and is designed to equip tomorrow's leaders with the essential tools by integrating theory, practicality, and professionalism.

MISSION OF THE BBA PROGRAMME

The programme aims to produce graduates that are intellectually and morally capable to identify economic and social problems and provide the sustainable solutions through professional, research and entrepreneurial skills.

PROGRAMME EDUCATIONAL OBJECTIVES

PEO1: To produce graduates with strong foundations in areas like Mathematics, Statistics, Economics and Functional Management in order to develop managerial qualities.

PEO2: To produce graduates with the ability to think creatively and critically, analyse problems quantitatively, and use information technology to solve business issues.

PEO3: To produce graduates with an understanding of social and ethical issues that are of concern to the whole business community.

PEO4: To produce graduates with strong entrepreneurial skills for creating and managing innovations, new business development and identifying high-growth potential entities.

DURATION OF DEGREE PROGRAMME

BBA (Minimum): 4 years

BBA (Maximum): 7 years

FEE STRUCTURE FOR NORTH

Tuition Fee/Credit	Exam Fee/Credit	No. of Credit/Semester	Total Tuition Fees	Total Exams Fee	Semester Registration Fee	Activity fee /Semester	Semester Fees
3000	400	15	45000	6000	5000	2000	58000
Admission fee (One Time)							12000
Security Deposit (One Time and refundable)							5000

FEE STRUCTURE FOR CLIFTON

Tuition Fee/Credit	Exam Fee/Credit	No. of Credit/Semester	Total Tuition Fees	Total Exams Fee	Semester Registration Fee	Activity fee /Semester	Semester Fees
5000	2000	15	75000	10000	10000	10000	105000
Admission fee (One Time)							20000
Security Deposit (One Time and refundable)							5000

** Tuition Fee and Exam Fee is calculated with Credit hours and will be changed in different Semesters
Note: Any additional taxes imposed by the government will be the liability of the students/parents/guardians.

The University reserves the right to increase the fees if required according to the recommendation of the Governing Body.

ELIGIBILITY CRITERIA

- Intermediate or equivalent.
- Candidates who have completed 12 years of education and obtained degrees other than Matriculation (SSC) and Intermediate (HSC) are required to obtain an equivalence certificate from the Inter Board Committee of Chairman (IBCC).

CREDIT HOUR DISTRIBUTION OF THE COURSES

The Department of Management Technology & Information Science follows NBEAC/HEC guidelines for distribution of credit hours between core and elective courses. Any changes to the curriculum are only made after a thorough deliberation in the Board of Studies (BOS) meetings, which are also attended by external experts. The programme comprises of 132 credit hours.

SCHEME OF STUDY - SEMESTER WISE STRUCTURE

Course Code	Course Title	Credit Hours
Semester - 1		
ENG-110	Functional English	3+0
MAN-110	Principle of Management	3+0
NAS-110T	Computer Concepts & Application	2+0
NAS-110L	Computer Concepts & Application- Lab	0+1
CIV-110/ CIV-111	Islamic Studies/ Moral Ethics	3+0
NAS-111	Basic Mathematics & Calculus	3+0
Semester Credit Hours		14+1
Semester - 2		
ACC-120	Fundamentals of Accounting	3+0
ECO-120	Micro Economics	3+0
MKT-120	Principles of Marketing	3+0
ENG-120	Communication & Presentation Skills	3+0
CIV-122	Pakistan Studies	3+0
Semester Credit Hours		15
Semester - 3		
NAS-232	Business Statistics	3+0
ECO-231	Macro Economics	3+0
COM-230	Business Communication	3+0
MKT-231	Marketing Management	3+0
SSC-230	Sociology	3+0
ACC-231	Financial Accounting	3+0
Semester Credit Hours		18
Semester - 4		
FIN-240	Introduction to Business Finance	3+0
LAW-240	Business Law & Taxation	3+0
ECO-242	Economy of Pakistan	3+0
MKT-242	Consumer Behavior	3+0
NAS-243	Statistical Inference	3+0
ACC-242	Cost & Managerial Accounting	3+0
Semester Credit Hours		18
Semester - 5		
FIN-351	Financial Institutions & Markets	3+0
QAN-350	Quantitative Skills	3+0
MAN-351	Organizational Behavior	3+0
NAS-354	Digital Business	3+0
MKT-353	Business Intelligence & Analytics	3+0
QAN-351	Logic and Critical Thinking	3+0
Semester Credit Hours		18
Semester - 6		
SSC-361	Business Ethics	3+0
RES-360	Business Research Methods	3+0
HRM-360	Human Resource Management	3+0
FIN-362	Financial Management	3+0
SCM-360	Introduction to Supply Chain Management	3+0
ENT-360	Introduction to Entrepreneurship	3+0
Semester Credit Hours		18
Semester - 7		
MAN-472	Leadership	3+0
XXX	University Elective	3+0
XXX	Elective I	3+0
XXX	Elective II	3+0
RES-471	Project / Thesis I	3+0
Semester Credit Hours		15
Semester - 8		
MAN-483	Project Management	3+0
XXX	University Elective	3+0
XXX	Elective III	3+0
XXX	Elective IV	3+0
RES-481	Project / Thesis II	3+0

SPECIALIZATION COURSES

Finance		
FIN-473	Corporate Finance	3+0
FIN-474	Financial Economics	3+0
FIN-475	Credit Management	3+0
FIN-476	Taxation Management	3+0
FIN-477	Practice & Laws of Banking	3+0
FIN-478	Consumer Banking	3+0
FIN-479	Seminar in Finance	3+0
FIN-480	Risk Management	3+0
FIN-481	Auditing	3+0
FIN-482	Islamic Financial System	3+0
FIN-483	Credit Analysis & Investment Banking	3+0
FIN-484	Investment & Portfolio Management	3+0
FIN-485	Public Finance	3+0
FIN-486	Treasury & Funds Management	3+0
FIN-487	Green Finance	3+0
FIN-488	Managerial Finance	3+0
FIN-489	International Financial Management	3+0
Marketing		
MKT-474	Sales Management	3+0
MKT-475	Retail Marketing	3+0
MKT-476	Cyber Marketing	3+0
MKT-477	Brand Management	3+0
MKT-478	Marketing Research	3+0
MKT-479	Export Marketing	3+0
MKT-480	Agriculture Marketing	3+0
MKT-481	Seminar In Marketing	3+0
MKT-482	Tourism Marketing	3+0
MKT-483	Services Marketing	3+0
MKT-484	International Marketing	3+0
MKT-485	Advertising Management	3+0
MKT-486	Trade Marketing	3+0
HRM		
HRM-471	Labor Laws in Pakistan	3+0
HRM-472	Employee Performance Management	3+0
HRM-473	International HRM	3+0
HRM-474	HR Development	3+0
HRM-475	Cases and Exercise in Personnel/HRM	3+0
HRM-476	Organizational Development	3+0
HRM-477	Essential of Training & Development	3+0
HRM-478	Industrial Relations	3+0
MIS		
MIS-470	Experts System & Artificial Intelligence	3+0
MIS-471	Computer Networking	3+0
MIS-472	Operating System	3+0
MIS-473	E-Commerce	3+0
MIS-474	System Analysis & Design	3+0
MIS-475	Seminar in MIS	3+0
MIS-476	Networking Management	3+0
Hospitality & Hotel Management		
HHM-470	Hotel Services Marketing	3+0
HHM-471	Food & Beverages Management	3+0
HHM-472	Events/Conferences Management	3+0
HHM-473	Hospitality Management	3+0
HHM-474	Hotel Financing Budgeting	3+0
SCM		
SCM-471	Strategic SCM	3+0
SCM-472	Sourcing and Logistics Management	3+0
SCM-473	Operational Planning in Supply Chain	3+0
SCM-474	Sustainable Supply Chain Management	3+0
SCM-475	Supply Chain Modeling	3+0
SCM-476	Total Quality Management	3+0

BS ACCOUNTING AND FINANCE

SCOPE AND OPPORTUNITIES

BS Accounting and Finance is a 4-years programme covering intensive Accounting and Finance Syllabi. The programme combines strong accounting and finance conceptual framework along with soft and business skills needed to excel in these areas. This Programme also improves technical and interpersonal skills of the students. Syllabus coverage of the courses allows the students to attain the BS (Hons) degree and attempt ACCA (UK) papers within 4 years. At the end of this period, a candidate may become a graduate and a professional qualification holder. ACCA exempts the first 9 papers of the BS (Hons) Accounting and Finance Programme graduates. To complete the ACCA qualification, graduates must pass the last 5 papers of ACCA. This programme has two semesters every year and a total of 8 semesters.

MISSION OF THE BS (ACCOUNTING AND FINANCE) PROGRAMME

- To be recognized as one of the leading undergrad business programs that nurtures individuals by imparting quality education to investigate the local and global challenges of the industry and society.
- To develop future business leaders who have an outlook on environmental, social and governance issues after governance

FEE STRUCTURE FOR NORTH

Tuition Fee/Credit	Exam Fee/Credit	No. of Credit/Semester	Total Tuition Fees	Total Exams Fee	Semester Registration Fee	Activity fee /Semester	Semester Fees
3000	400	15	45000	6000	5000	2000	58000
Admission fee (One Time)							12000
Security Deposit (One Time and refundable)							5000

** Tuition Fee and Exam Fee is calculated with Credit hours and will be changed in different Semesters
Note: Any additional taxes imposed by the government will be the liability of the students/parents/guardians.

The University reserves the right to increase the fees if required according to the recommendation of the Governing Body.

for both the local and global market.

PROGRAMME EDUCATIONAL OBJECTIVES

PEO1: To produce graduates with strong foundations in accounting and finance to develop managerial qualities.

PEO2: To produce graduates with the ability to think creatively and critically, analyze problems quantitatively and use information technology to solve business issues.

PEO3: To produce graduates with understanding of social and ethical issues that concern the whole business community.

PEO4: To produce graduates with good communication skills, personality, legal knowledge and understanding of local and global issues that concern the whole business community.

CAREER PROSPECTS

Graduates of this Programme can expect promising careers in the following roles and fields:

- Pursue a career in Accounting/Finance/Auditing/Taxation
- Pursue professional studies like MBA/CA/ACCA/CIMA/CFA
- Freelancing

SCHEME OF STUDY - SEMESTER WISE STRUCTURE

Course Code	Course Title	Credit Hours
Semester - 1		
ENG-110	Functional English	3+0
NAS-110	Computer Concepts & Applications	2+1
CIV-110 / CIV-111	Islamic Studies / Moral Ethics	3+0
NAS-111	Basic Mathematics & Calculus	3+0
ACC-110	Introduction to Financial Accounting	3+0
Semester Credit Hours		15
Semester - 2		
MAN-120	Principles of Management	3+0
ECO-120	Micro Economics	3+0
ENG-120	Communication & Presentation Skills	3+0
CIV-120	Pakistan Studies	3+0
ACC-121	Financial Accounting	3+0
Semester Credit Hours		15
Semester - 3		
NAS-232	Business Statistics	3+0
ECO-231	Macroeconomics	3+0
MKT-230	Principles of Marketing	3+0
FIN-230	Introduction to Business Finance	3+0
SSC-230	Sociology	3+0
ACC-232	Accounting & Financial Information Systems	3+0
Semester Credit Hours		18
Semester - 4		
FIN-241	Introduction to Financial System	3+0
LAW-240	Business & Labor Law	3+0
ECO-242	Economy of Pakistan	3+0
MAN-241	Organizational Behavior	3+0
NAS-243	Statistical Inference	3+0
ACC-243	Cost & Managerial Accounting	3+0
Semester Credit Hours		18
Semester - 5		
ACC-354	Corporate Accounting & Reporting	3+0
FIN-352	Financial Institutions & Markets	3+0
COM-350	Business Communication	3+0
MKT-351	Business Intelligence & Analytics	3+0
LAW-351	Company Law	3+0
HRM-350	Human Resource Management	3+0
Semester Credit Hours		18
Semester - 6		
ACC-365	Audit & Assurance	3+0
RES-360	Business Research Methods	3+0
FIN-363	Financial Management	3+0
ACC-366	Financial Reporting Analysis	3+0
ACC-367	Performance Management	3+0
LAW-362	Business Taxation	3+0
Semester Credit Hours		18
Semester - 7		
FIN-474	Corporate Finance	3+0
XXX	University Elective	3+0
XXX	Accounting Elective-I	3+0
XXX	Finance Elective-I	3+0
RES-471	Final Project	3+0
Semester Credit Hours		15

LIST OF ELECTIVES

SPECIALIZATION COURSES - FINANCE

Finance		
FIN-486	Corporate Finance	3+0
FIN-487	Financial Economics	3+0
FIN-488	Credit Management	3+0
FIN-489	Taxation Management	3+0
FIN-490	Practice & Laws of Banking	3+0
FIN-491	Consumer Banking	3+0
FIN-492	Seminar in Finance	3+0
FIN-493	Risk Management	3+0
FIN-494	Auditing	3+0
FIN-495	Islamic Financial System	3+0
FIN-496	Credit Analysis & Investment Banking	3+0
FIN-497	Investment & Portfolio Management	3+0
FIN-498	Public Finance	3+0
FIN-499	Treasury & Funds Management	3+0
FIN-451	Green Finance	3+0
FIN-452	Managerial Finance	3+0
FIN-453	International Financial Management	3+0
FIN-454	Investment Banking	3+0
FIN-455	Financial Risk Management	3+0
FIN-456	Advanced Corporate Finance	3+0
FIN-457	Financial Econometrics	3+0
FIN-458	Branch Banking	3+0
FIN-459	Marketing of Financial Services	3+0
FIN-460	Strategic Financial Management	3+0
FIN-461	Contemporary Issues in Finance	3+0
FIN-462	Regulations & Financial Markets	3+0
FIN-463	Sharia Compliant Financial Markets & Institutions	3+0
FIN-464	Contract Management	3+0
FIN-465	Alternative Finance	3+0
FIN-466	Digital Currency	3+0
FIN-467	International Banking	3+0
FIN-468	Behavioral Finance	3+0
FIN-469	Empirical Research in Finance	3+0
FIN-470	Mergers & Acquisitions	3+0

SPECIALIZATION COURSES - ACCOUNTING

ACC-470	Financial Statement Analysis	3+0
ACC-471	Advanced Managerial Accounting	3+0
ACC-472	Accounting Theory	3+0
ACC-473	Advanced Auditing	3+0
ACC-474	Advance Financial Reporting	3+0
ACC-475	Essential Software in Accounting	3+0
ACC-476	Tax Management & Optimization	3+0
ACC-477	HR Accounting	3+0
ACC-478	Responsible Accounting	3+0
ACC-479	ESG Accounting	3+0
ACC-480	Enterprise Resource Planning	3+0
ACC-481	Advance Financial Accounting	3+0
ACC-482	Digital Accounting	3+0

BS BUSINESS ANALYTICS

SCOPE AND OPPORTUNITIES

The BS (Business Analytics) Programme is planned for individuals who want to develop analytical skills by mixing business theory, data analytics skills, practical knowledge, and professional skills in preparation for careers as business leaders. The BS Business Analytics is a dynamic degree Programme aimed to provide strong analytical and critical thinking abilities to students who wish to explore the power of data analysis to facilitate decision-making processes in organizations and solve business problems. The Programme prepares the next generation of managers with the expertise to manage and analyse data to solve organizations' pressing challenges in management, HRM, finance, operations, and marketing.

MISSION OF THE BS (BUSINESS ANALYTICS) PROGRAMME

- To be recognized as one of the leading undergrad businesses & analytics programmes that nurture individuals by imparting quality education to investigate the industry's and society's local and global challenges.
- To develop future business analysts with strong analytical and critical thinking abilities to make business decisions for local and global markets.

FEE STRUCTURE FOR NORTH

Tuition Fee/Credit	Exam Fee/Credit	No. of Credit/Semester	Total Tuition Fees	Total Exams Fee	Semester Registration Fee	Activity fee /Semester	Semester Fees
3000	400	15	45000	6000	5000	2000	58000
Admission fee (One Time)							12000
Security Deposit (One Time and refundable)							5000

** Tuition Fee and Exam Fee is calculated with Credit hours and will be changed in different Semesters
Note: Any additional taxes imposed by the government will be the liability of the students/parents/guardians.

The University reserves the right to increase the fees if required according to the recommendation of the Governing Body.

CREDIT HOUR DISTRIBUTION OF THE COURSES

The Department of Management Technology & Information Science follows HEC guidelines for distributing credit hours between core courses and general education courses. Any changes to the curriculum are only made after a thorough deliberation in the Board of Studies (BOS) meetings, which external experts also attend. The Programme comprises 132 credit hours.

CAREER OPPORTUNITIES

In the rapidly growing field of big data and analytics, there is a high demand for skilled professionals who can leverage analytics to translate unstructured data into valuable business insights. The BS BA degree provides diverse career opportunities for graduates, including business analysts, operations analysts, people analysts, financial analysts, and market or consumer analysts.

PROGRAMME EDUCATIONAL OBJECTIVES

PEO1: To produce graduates with expertise to manage and analyse data for solving the challenges faced by the organization in management, HRM, finance, operations, and marketing to develop managerial qualities.

PEO2: To produce graduates who can creatively and critically analyse and evaluate problems quantitatively, and use information technology to solve business issues.

PEO3: To produce graduates who understand social and ethical issues concerning the business community.

PEO4: To produce graduates with strong decision-making skills for creating and managing innovations, new business development, and identifying high-growth potential entity

DURATION OF DEGREE PROGRAMME

BS (Business Analytics) (Minimum): 4 years
BS (Business Analytics) (Maximum): 7 years

ELIGIBILITY CRITERIA

- Intermediate or equivalent.
- Candidates who have completed 12 years of education and obtained degrees other than Matriculation (SSC) and Intermediate (HSC) are required to obtain an equivalence certificate from the Inter Board Committee of Chairman (IBCC).

SCHEME OF STUDY - SEMESTER WISE STRUCTURE

BS (Business Analytics)		
Course Number	Course Title	Credit Hours
Semester - 1		
1	Functional English	3
2	Principle of Management	3
3	IT in Business	2+1
4	Islamic Studies/Ethics	3
5	Basic Mathematics & Calculus	3
Semester Credit Hours		15
Semester - 2		
6	Fundamentals of Accounting	3
7	Micro-Economics	3
8	Principles of Marketing	3
9	Communication & Presentation Skills	3
10	Pakistan Studies	3
Semester Credit Hours		15
Semester - 3		
11	Business Statistics	3
12	Macro Economics	3
13	Business Communication	3
14	Marketing Management	3
15	Sociology	3
16	Programming Fundamentals	2+1
Semester Credit Hours		18
Semester - 4		
17	Business Finance	3
18	Data Structures & Business Applications	2+1
19	Economy of Pakistan	3
20	Consumer Behavior	3
21	Statistical Inference	3
22	Cost & Managerial Accounting	3
Semester Credit Hours		18
Semester - 5		
23	Financial Institutions & Markets	3
24	Quantitative Skills	3
25	Organizational Behavior	3
26	Digital Business	3
27	Fundamentals of Business Intelligence & Analytics	2+1
28	Logic and Critical Thinking	3
Semester Credit Hours		18
Semester - 6		
29	Legal and ethical Issues in Business Analytics	3
30	Business Research Methods	3
31	Human Resource Management	3
32	Financial Management	3
33	Databse Systems	2+1
34	Entrepreneurship	3
Semester Credit Hours		18
Semester - 7		
35	Leadership	3
36	University Elective	3
37	Machine Learning for Business Analytics	2+1
38	Business Data and Text Mining	2+1
39	Final Year Project - I	0+3
Semester Credit Hours		15
Semester - 8		
40	Project Management	3
41	University Elective	3
42	Decision Science for Business	2+1
43	Predictive Analytics	2+1
44	Final Year Project - II	0+3
Semester Credit Hours		15

BS MANAGEMENT & TECHNOLOGY (BSM&T) EVENING PROGRAMME

SCOPE AND OPPORTUNITIES

This Programme offers a unique combination of courses from Business Management and Information Technology to develop the skills that ensure a sustainable Digital future. The graduates are prepared to oversee complex projects and manage individuals to work with ever changing environment and be on the cutting edge of advancement and the longer term of work. The Programme concentrates on database systems, data visualization tools and techniques, statistical modeling, data mining, optimization, simulation, and their applications in business disciplines such as accounting, finance, human resources, insurance, management, and marketing. The emphasis is placed throughout the programme on developing all-rounded communication & soft skills, analytical & reasoning skills, ethical decision making and problem-solving capabilities. Graduates in Management & Technology go on to become chief technology officers, project managers, business development executives/managers, product managers, marketing managers, analytics managers, business analysts, technical programme managers, senior product managers, and technical product managers, Financial Analysts.

FEE STRUCTURE

Monthly Instalment (Tuition fee + Examination Fee)	
8500	(48 installments for four years)
Admission fee (One Time)	15000
Security Deposit (One Time and refundable)	5000

Note: Any additional taxes imposed by the government will be the liability of the students/parents/guardians.

The University reserves the right to increase the fees if required according to the recommendation of the Governing Body.

Fees once deposited are not refundable, except security deposits, for any reason whatsoever.

PROGRAMME EDUCATIONAL OBJECTIVES

Consistent with the department Vision and Mission, the Programme Educational Objectives of the study Programme BS Management & Technology are to educate individuals with interdisciplinary and practical knowledge who:

PEO-1: Will demonstrate in- depth knowledge of Business Management and Information Technology

PEO-2: Will have ability to understand, diagnose,

MISSION OF THE PROGRAMME

The Programme aims to produce graduates that are intellectually and morally capable to add value to the industry and society by supervising new and complex projects by using various technologies that facilitate individuals to work with ever changing environment at large scale and provide the sustainable solutions through professional, research and entrepreneurial skills.

DURATION OF DEGREE PROGRAMME

BS Management & Technology Duration (Minimum): 4 years Duration (Maximum): 7 years

ELIGIBILITY CRITERIA

The criteria for students seeking admission to Programme are as follows:

- Intermediate or equivalent examination.
- Minimum score for eligibility is 50% in the ZU Admissions Test.

Note: Candidates who have completed 12 years of education and obtained degrees other than Matriculation (SSC) or Intermediate (HSSC) are required to obtain an equivalence certificate from the Inter Board Committee of Chairman (IBCC).

communicate and provide solutions to business and technical problems

PEO-3: Serve the society with their innovative ideas to manage various technologies maintaining the ethical standards

PEO-4: Will promote continuous development of professional and technical know-how in decision making process.

THE CREDIT HOUR DISTRIBUTION OF THE COURSES

The Department of Management Technology & Information Sciences follows HEC guidelines for distribution of credit hours between core and

elective courses. The Programme comprises of 132 credit hours.

SCHEME OF STUDY - SEMESTER WISE STRUCTURE

Semester – I			
Code	Title	Credit Hour	Pre- Requisites
ENG-110	Functional English	3+0	None
MGT-110	Principle of Management	3+0	None
CIV-110	Islamic Studies	3+0	None
NAS-110	Applied Mathematics I	3+0	None
CSE-110	Discrete Structures	3+0	None
CSE-111T	Computer Fundamentals & Programming	2+0	None
CSE-111L	Computer Fundamentals & Programming-LAB	0+1	None
Total		17+1	
Semester – II			
NAS-121	Applied Mathematics II	3+0	NAS-110
ECO-120	Micro Economics	3+0	None
MKT-120	Principle of Marketing	3+0	None
CIV-121	Pakistan Studies	3+0	None
ENG-121	Communication & Presentation Skills	3+0	None
CSE-122T	Object Oriented Programming	2+0	None
CSE-122L	Object Oriented Programming-LAB	0+1	None
Total		17+1	
Semester – III			
QAN-230	Logic & Critical Thinking	3+0	None
ECO-231	Macro Economics	3+0	ECO-120
LAW-230	Business Law	3+0	None
MKT-231	Marketing Management	3+0	MKT-120
ACC-230	Financial Accounting	3+0	None
CSE-233T	Data Structures	2+0	None
CSE-233L	Data Structure-LAB	0+1	None
Total		17+1	
Semester – IV			
FIN-240	Introduction to Business Finance	3+0	ACC-230
SSC-240	Business Ethics	3+0	None
A&H-240	Foreign Language	3+0	None
QAN-241	Statistical Inference	3+0	None
CSE-244T	Database Management System	2+0	CSE-233T
CSE-244L	Database Management System-LAB	0+1	CSE-233L
Total		14+1	
Semester – V			
CSE-355T	Operating Systems	2+0	CSE-233T
CSE-355L	Operating Systems-LAB	0+1	CSE-233L
FIN-351	Financial Management	3+0	FIN-240
SSC-351	Organizational Behavior	3+0	None
BTM-350	Management Information Systems	3+0	None
CSE-356T	Artificial Intelligence in Business	2+0	None
CSE-356L	Artificial Intelligence in Business-LAB	0+1	None
Total		13+2	
Semester – VI			
MGT-361	Human Resource Management	3+0	MGT-110
RES-360	Research Methodology	3+0	None
SCM-360	Introduction to Supply Chain Management	3+0	None
BTM-361	Digital Business	3+0	None
ENG-363	Technical & Business Writing	3+0	None
ACC-361	Cost & Managerial Accounting	3+0	FIN-240
Total		18	
Semester – VII			
ENT-470	Entrepreneurship	3+0	None
BTM-472	Enterprise Resource Planning	3+0	MIS
ECO-472	Managerial Economics	3+0	ECO-231
BTM-474	Business Process Management	3+0	None
RES-471	Project/ Thesis – I	3+0	None
Total		15	
Semester – VIII			
BTM-483	Business Intelligence & Analytics	3+0	None
MGT-482	Information technology Project Management	3+0	None
CSE-487	Information Security	3+0	None
MGT-483	Total Quality Management	3+0	None
RES-482	Project/ Thesis – II	3+0	RES-471
Total		15	

MASTER OF BUSINESS ADMINISTRATION (MBA)

INTRODUCTION

Ziauddin University is a well-known Chartered University. Ziauddin University is now offering Master of Business Administration (MBA) at both North Nazimabad and Clifton Campuses. The Master of Business Administration (MBA) Programme is one of the professional programmes that is planned for individuals who want to mix business theory, practical knowledge and professional skills in preparation for careers as business leaders. The curriculum used is integrated with experiential learning by applying the newest management tools and techniques. Case studies and project work are among the pedagogies used for delivery of the curriculum content. Students have a choice to do a Research Thesis or undertake a Capstone Project, a real-life project in their specialized area with a related company. It is a diverse course that has various areas of specialization including:

1. Healthcare Management
2. Rehabilitation Management
3. Technology Management
4. Finance
5. Islamic Banking and Finance
6. Human Resources Management
7. Marketing
8. Supply Chain Management

MBA PATHWAYS

MBA has several paths available to help professionals advance their careers.

For students with a 4-year business degree / 16-years of education

- Average duration of the MBA Programme is 1.5 years. Average duration of the MBA Programme is 1.5 years.
- Ten courses (30 credits) that may have option

of Capstone project/Research Thesis (6 credits)

- The maximum duration to complete this degree is 4 years.

For students with a non-business undergraduate degree of 4 years/ 16-years of education,

- Average duration of the MBA Programme is 2 to 2.5 years.
- Twenty courses (60 credits) that may have option of Capstone project/Research Thesis (6 credits)
- The maximum duration to complete this degree is 4 years.

For students with an undergraduate degree of 2 years/ 14-years of education,

- Average duration of the MBA Programme is 3.5 years (BBA bridge Programme of 2 years +1.5 years)
- Thirty-five courses of 105 credits (75 credits for BBA bridge + 30 credits) that may have option of Capstone project/Research Thesis (6 credits)
- The maximum duration to complete this degree is 8 years.

DURATION OF DEGREE PROGRAMME

MBA (for 16 years Business education graduates): 1.5 years
MBA (for 16 years non-Business education graduates): 2 to 2.5 years
MBA (for 14 years education graduates): 3.5 years

ELIGIBILITY CRITERIA

- 16 years of education with a minimum CGPA of 2.0 or equivalent
- Or
- 14 years of education with a minimum CGPA of 2.0 or equivalent (for admission in BBA bridge + MBA Programme)

NORTH NAZIMABAD MBA FEE STRUCTURE

Admission Fee (Only once)	Rs. 15,000
Security Deposit (only once and refundable)	Rs. 5,000
Student Activity Fee (per semester)	Rs. 2,000
Semester registration Fee (per semester)	Rs. 8,000
Tuition & Examination Fee 15,000/ course (for 3 courses)	Rs. 45,000
Total	Rs. 75,000

CLIFTON MBA FEE STRUCTURE

Admission Fee (Only once)	Rs. 20,000
Security Deposit (only once and refundable)	Rs. 5,000
Student Activity Fee (per semester)	Rs. 2,000
Semester registration Fee (per semester)	Rs. 8,000
Tuition & Examination Fee 22,000/ course (for 3 courses)	Rs. 66,000
Total	Rs. 101,000

SEMESTER WISE BREAK-UP

MBA 1.5 years	North Nazimabad campus	Clifton Campus
Semester 1	Rs. 75,000	Rs. 101,000
Semester 2	Rs. 55,000	Rs. 76,000
Semester 3	Rs. 70,000	Rs. 98,000

MBA 2.5 years	North Nazimabad campus	Clifton Campus
Semester 1	Rs. 90,000	Rs. 123,000
Semester 2	Rs. 70,000	Rs. 98,000
Semester 3	Rs. 70,000	Rs. 98,000
Semester 4	Rs. 70,000	Rs. 98,000
Semester 5	Rs. 70,000	Rs. 98,000

SCHEME OF STUDY - SEMESTER WISE STRUCTURE

MBA (1.5 Years) - Proposed		
Course Code	Course Title	Credit Hours
Semester - 1		
RES-510	Applied Business Research	3
MAN-510	Strategic Management	3
	Specialization I	3
	Semester Credit Hours	9
Semester - 2		
FIN-520	Strategic Finance	3
	Specialization II	3
RES-521	Research Project / Research Thesis I/Elective I	3
	Semester Credit Hours	9
Semester - 3		
MKT-530	Strategic Marketing	3
	Specialization III	3
	Specialization IV	3
RES-532	Research Project / Research Thesis-II/ Elective II	3
	Semester Credit Hours	12
	Total Credit Hours	30

MBA- 2.5 Years		
Course Code	Course Title	Credit Hours
Semester - 1		
MAN-510	Theory & Practice of Management	3
ECO-510	Business Economics	3
ACC-510	Financial Accounting	3
QAT-521	Statistical Inference	3
	Semester Credit Hours	12
Semester - 2		
COM-520	Business Communication	3
FIN-520	Financial Management	3
ACC-511	Cost & Managerial Accounting	3
QAT-510	Quantitative Tools for Managers	3
	Semester Credit Hours	12
Semester - 3		
RES-630	Applied Business Research	3
MAN-521	Strategic Management	3
ENT-640	Entrepreneurship	3
MKT-520	Marketing Management	3
	Semester Credit Hours	12
Semester - 4		
FIN-631	Strategic Finance	3
MKT-631	Strategic Marketing	3
	Specialization I	3
RES-641	Research Project / Research Thesis I/Elective I	3
	Semester Credit Hours	12
Semester - 5		
	Specialization II	3
	Specialization III	3
	Specialization IV	3
RES-642	Research Project / Research Thesis-II/ Elective II	3
	Semester Credit Hours	12
	Total Credit Hours	60

SPECIALIZATION COURSES

Finance		
Course Code	Course Title	Credit Hours
FIN-521	Corporate Finance	3+0
FIN-522	Financial Economics	3+0
FIN-523	Credit Management	3+0
FIN-524	Taxation Management	3+0
FIN-525	Practice & Laws of Banking	3+0
FIN-526	Consumer Banking	3+0
FIN-527	Seminar in Finance	3+0
FIN-528	Risk Management	3+0
FIN-529	Auditing	3+0
FIN-530	Performance Management	3+0
FIN-531	Credit Analysis & Investment Banking	3+0
FIN-532	Investment & Portfolio Management	3+0
FIN-533	Public Finance	3+0
FIN-534	Treasury & Funds Management	3+0
FIN-535	Green Finance	3+0
FIN-536	Managerial Finance	3+0
FIN-537	International Financial Management	3+0
FIN-538	Corporate Governance	3+0
FIN-539	Financial Statement Analysis	3+0
FIN-540	Issue in FinTech	3+0

Islamic Banking & Finance		
IBF-510	Advanced Islamic Banking & Finance	3+0
IBF-511	Sharia Governance	3+0
IBF-512	Risk Management in Islamic Finance	3+0
IBF-513	Islamic Financial System	3+0
IBF-514	Insurance and Takaful Management	3+0
IBF-515	Islamic Asset and Fund Management	3+0
IBF-516	Islamic Economics: Theories and Practices	3+0
IBF-517	Islamic Microfinance: Theory and Practices	3+0
IBF-518	Islamic Capital Markets	3+0
Marketing		
MKT-521	Sales Management	3+0
MKT-522	Retail Marketing	3+0
MKT-523	Cyber Marketing	3+0
MKT-524	Brand Management	3+0
MKT-525	Marketing Research	3+0
MKT-526	Export Marketing	3+0
MKT-527	Agriculture Marketing	3+0
MKT-528	Seminar In Marketing	3+0
MKT-529	Tourism Marketing	3+0
MKT-531	Services Marketing	3+0
MKT-532	International Marketing	3+0
MKT-533	Advertising Management	3+0
MKT-534	Trade Marketing	3+0
MKT-535	Marketing of Financial Product	3+0
MKT-536	Distribution Channels	3+0
MKT-537	Digital Marketing	3+0
MKT-538	Marketing Analytics	3+0
Human Resource Management		
HRM-521	Labor Laws in Pakistan	3+0
HRM-522	Employee Performance Management	3+0
HRM-523	International HRM	3+0
HRM-524	HR Development	3+0
HRM-525	Cases and Exercise in Personnel/HRM	3+0
HRM-526	Organizational Development	3+0
HRM-527	Essential of Training & Development	3+0
HRM-528	Industrial Relations	3+0
HRM-529	Reward Management	3+0
Logistics & SCM		
SCM-521	Strategic SCM	3+0
SCM-522	Sourcing and Logistics Management	3+0
SCM-523	Operational Planning in Supply Chain	3+0
SCM-524	Sustainable Supply Chain Management	3+0
SCM-524	Supply Chain Modeling	3+0
SCM-525	Total Quality Management	3+0
SCM-526	Inventory Management	3+0
SCM-527	Demand Forecasting	3+0
SCM-528	Operational Planning in Supply Chain	3+0
SCM-529	Strategic Operation Management	3+0
SCM-530	Strategic Procurement in Supply Chain	3+0
SCM-531	Supply Chain Strategy, Design and Compliance	3+0
SCM-532	Supply Chain Mapping	3+0
SCM-533	Enterprise Resource Planning	3+0
SCM-534	Public Procurement	3+0

Healthcare Management		
HCM-510	Leadership in Healthcare	3+0
HCM-511	Change Management in Healthcare	3+0
HCM-512	Personal Management in Healthcare	3+0
HCM-513	Managerial Finance for Healthcare	3+0
HCM-514	Credit Management for Healthcare	3+0
HCM-515	Taxation Management for Healthcare	3+0
HCM-516	Risk Management for Healthcare	3+0
HCM-517	Sales Management for Healthcare	3+0
HCM-518	Brand Management for Healthcare	3+0
HCM-519	Marketing Research for Healthcare	3+0
HCM-520	Services Marketing for Healthcare	3+0
HCM-521	Advertising Management for Healthcare	3+0
HCM-522	Distribution Channels for Healthcare	3+0
HCM-523	Digital Marketing for Healthcare	3+0
HCM-524	Labor Laws in Pakistan for Healthcare	3+0
HCM-525	Employee Performance Management for Healthcare	3+0
HCM-526	HR Development for Healthcare	3+0
HCM-527	Industrial Relations for Healthcare	3+0
HCM-528	Organizational Development for Healthcare	3+0
HCM-529	Reward Management for Healthcare	3+0
HCM-530	Training & Development for Healthcare	3+0
HCM-531	Supply Chain Management for Healthcare	3+0
HCM-532	Marketing of Health Services for Healthcare	3+0
HCM-533	Inventory Management for Healthcare	3+0
Rehabilitation Management		
RHM-510	Professional Practice & Ethics in Rehabilitation Management	3+0
RHM-511	Sports Finance	3+0
RHM-512	Sports Marketing	3+0
RHM-513	Leadership in Rehabilitation Management	3+0
RHM-514	Change Management in Rehabilitation Management	3+0
RHM-515	Personal Management in Rehabilitation Management	3+0
RHM-516	Managerial Finance for Rehabilitation Management	3+0
RHM-517	Credit Management for Rehabilitation Management	3+0
RHM-518	Taxation Management for Rehabilitation Management	3+0
RHM-519	Risk Management for Rehabilitation Management	3+0
RHM-520	Sales Management for Rehabilitation Management	3+0
RHM-521	Brand Management for Rehabilitation Management	3+0
RHM-522	Marketing Research for Rehabilitation Management	3+0
RHM-523	Services Marketing for Rehabilitation Management	3+0
RHM-524	Advertising Management for Rehabilitation Management	3+0
RHM-525	Distribution Channels for Rehabilitation Management	3+0
RHM-526	Digital Marketing for Rehabilitation Management	3+0
RHM-527	Labor Laws in Pakistan for Rehabilitation Management	3+0
RHM-528	Employee Performance Management for Rehabilitation Management	3+0
RHM-529	HR Development for Rehabilitation Management	3+0
RHM-530	Industrial Relations for Rehabilitation Management	3+0
RHM-531	Organizational Development for Rehabilitation Management	3+0
RHM-532	Reward Management for Rehabilitation Management	3+0
RHM-533	Training & Development for Rehabilitation Management	3+0
RHM-534	Supply Chain Management for Rehabilitation Management	3+0
RHM-535	Marketing of Health Services for Rehabilitation Management	3+0

DOCTOR OF PHILOSOPHY (PhD) IN MANAGEMENT SCIENCES

SCOPE OF THE DEGREE PROGRAMME

PhD Programme enables graduates to develop advanced skills in designing and conducting research. Such skills are highly applicable to various careers in academia, business, government and non-profit organizations. A doctoral degree programme in management sciences imparts several skills that can be applied as part of an independent researcher, corporate manager, independently as a consultant, or even working in the public policy field. There is an increasing emphasis in Pakistan to improve management sciences education to manage businesses in finance, Human Resources Management, Marketing, Technology Management and related domains. Although many universities offer PhD in Management Sciences but Ziauddin University has the competitive advantage of having a strong foundation of health and engineering disciplines for interdisciplinary topics that can support and facilitate a broad range of specializations pertaining to management sciences.

OBJECTIVE OF THE DEGREE PROGRAMME

Programme Educational Outcomes:

PEO1: To produce graduates for responsible and impactful research.

PEO2: To produce graduates up-to-date Knowledge through research to meet local and global needs of the academia, industry and policy making institutions and society.

PEO3. To produce graduates with scientific, critical, innovative thinking, and practical skills that will help generate novel ideas and solutions for basic & applied real-world management problems

PEO4. To produce graduates with proficiencies in the quantitative and qualitative problem-solving skills

Programme Learning Outcomes:

PLO1. Demonstrate an in-depth knowledge of business and management sciences research. (PEO 1, PEO2, PEO 3).

PLO2. Ability to systematically review, analyse, and interpret the scientific literature and innovations in the areas of management sciences. (PEO1, PEO 2, PEO 3, PEO4)

PLO3. Ability to conduct high-quality basic & applied research and effectively disseminate the research outputs in international research

journals of repute, conferences, seminars, patents, research proposals, and other scientific venues. (PEO1, PEO 2, PEO 3, PEO4)
PLO4. Contribute to original research to broaden the boundary of knowledge through dissertations. (PEO2, PEO 3, PEO4)

Competencies of a Learner:

- Skillful
- Self-directed and life-long learner
- Communicator
- Collaborator
- Professional
- Researcher
- Leader

ELIGIBILITY CRITERIA

(Ziauddin University, Postgraduate Policy, Section 25.2, Page no. 14. Policy is also given below)

PhD Programme Admission

i. At least 18 years of education in the relevant discipline (MBA & MS (Management Science), Minimum CGPA 3.0/4.00 or 60% marks from HEC recognized institute (preferably the undergraduate and postgraduate degrees should be HEC attested or have an HEC equivalence certificate in case of foreign university education).

ii. Passed

(a) Graduate Record Examination (GRE) subject test with 60% or equivalent marks administered by the Education Testing service, or

(b) A Graduate Admission Test (GAT) with 60% marks administered by HEC authorized Testing Council, or

(c) As per HEC guidelines, an equivalent test developed by the university or by another university for admissions to graduate programmes with 70% marks.

iii. An interview with faculty/Departmental Admission committee (that should be notified through Registrar office).

25.3 In case of any other scale of marking in pre-requisite transcript /degree for MS / M Phil / PhD programmes, HEC conversion formula should be consumed to determine the equivalent CGPA. 25.4 If more than one marking scales are mentioned on pre-requisite degree / transcript for MS / MPhil / PhD programmes, CGPA will be considered for admission eligibility of candidate in the specific programme.

FEE STRUCTURE FOR NORTH

Admission Fee (Only once)	Rs. 20,000
Security Deposit (only once and refundable)	Rs. 5,000
Semester Fee (per Semester)	Rs. 5,000
Examination Fee (per course)	Rs. 2,000
Tuition Fee (Per Course)	Rs. 13,000
Comprehensive Examination Fee (Per Attempt)	Rs. 5,000
Supervision Fee (Per Semester)	Rs. 18,000
PhD Dissertation Evaluation Fee (Per Submission)	USD 600
GEC Evaluation Fees (Per Evaluation)	Rs. 8,000
Viva Voce Exams Fee (Per Attempt)	Rs. 20,000

LIST OF CORE COURSES

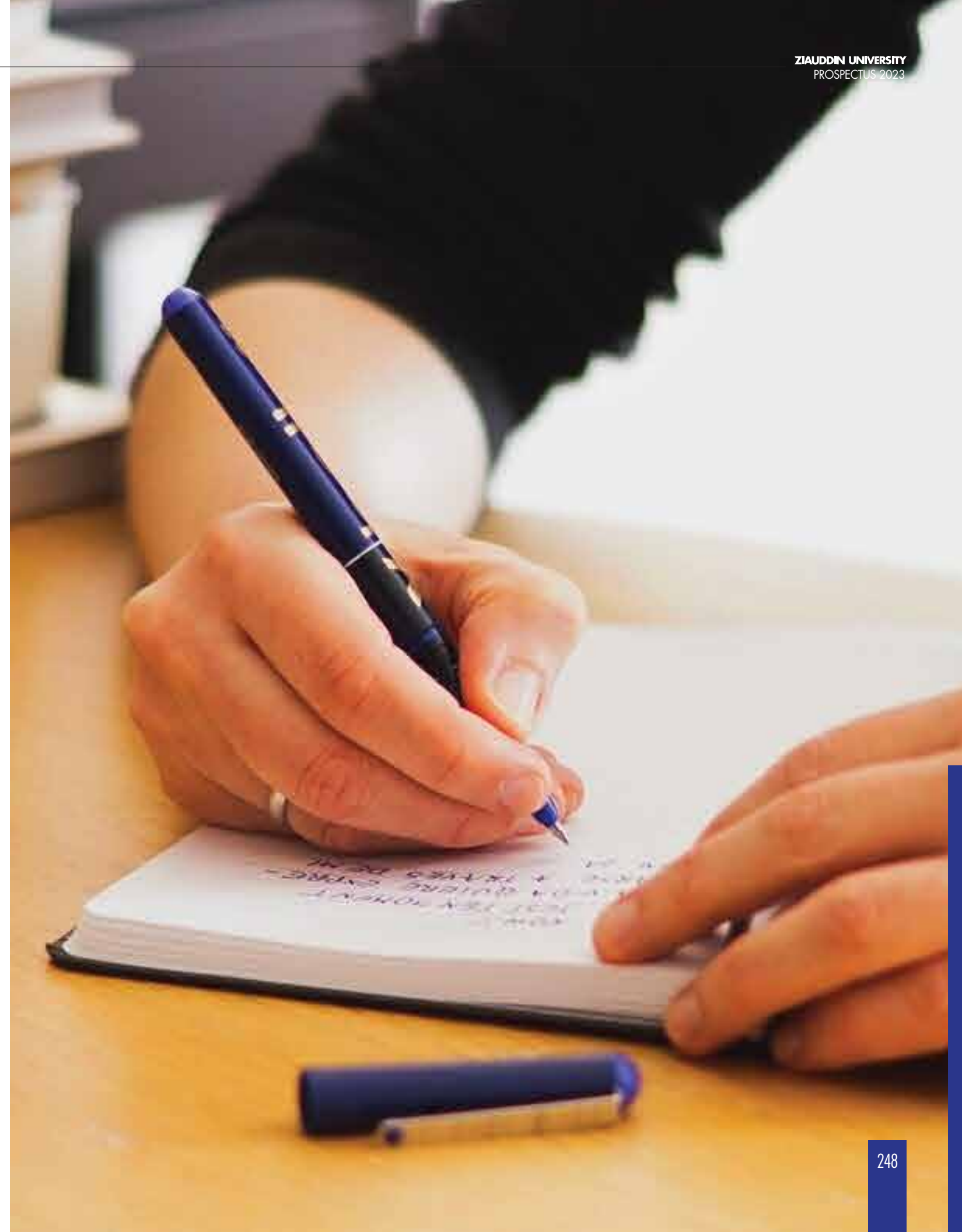
Semester	Code	Title	Pre-Req	Cr. Hrs
Semester 1	RES-710	Advanced Research Methodology	None	3+0
	RES-711	Advanced Quantitative Research	None	3+0
	RES-712/ECO-710	Advanced Qualitative Research or Advanced Econometrics for Finance	None	3+0
Semester 2		Elective I	None	3+0
	IRS-720	Independent Research Study I	RES-710, RES-711, RES-712/ECO-710	3+0
	IRS-721	Independent Research Study II	RES-710, RES-711, RES-712/ECO-710	3+0
Credit Hours				18

PHD DISSERTATION - 30 CREDIT HOURS

Semester	Code	Title	Pre-Req	Cr. hrs
Semester 3	PRD810	Research Proposal		6+0
Semester 4	PRD811	PhD Dissertation I	PRD810	6+0
Semester 5	PRD822	PhD Dissertation II	PRD811	6+0
Semester 6	PRD823	PhD Dissertation III	PRD822	12+0
Credit Hours				30
Total Credit Hours (Course Work + Dissertation) (18+30)				48

LIST OF ELECTIVES

Sr. #	Code	Title	Cr. Hrs
1	MAN-730	Philosophies of Leadership	3+0
2	MAN-731	Advance International Business Management	3+0
3	MAN-732	Classical and Contemporary Management	3+0
4	MAN-733	Advance Leadership and Change Management	3+0
5	MAN-734	Crisis Management	3+0
6	MAN-735	Seminar on Contemporary Business and Management Issues	3+0
7	MAN-736	Leadership: Theoretical and Practical Perspective	3+0
8	MAN-737	Seminars on Leadership/Management	3+0
9	HRM-730	Strategic Organizational Development	3+0
10	HRM-731	Advance International Human Resource Management	3+0
11	HRM-732	Seminar on Organizational Environment	3+0
12	HRM-733	Competitive Human Resource Strategies in Developing Countries	3+0
13	ENT-730	Advance Entrepreneurship	3+0
14	FIN-730	Advance International Financial Management	3+0
15	FIN-731	Econometric Issues	3+0
16	FIN-732	Dynamic Asset Pricing Theory	3+0
17	FIN-733	Advanced Behavioral Finance	3+0
18	FIN-734	Corporate Governance	3+0
19	FIN-735	Advanced Issues in Fintech	3+0
20	FIN-736	Advanced Islamic Banking & Finance	3+0
21	FIN-737	Advanced Corporate Finance	3+0
22	FIN-738	Seminar on Global Financial Market	3+0
23	MKT-730	Cross Cultural Consumer Research	3+0
24	MKT-731	Advance E-Marketing	3+0
25	MKT-732	Advanced Consumer Behavior	3+0
26	MKT-733	Advanced Brand Management	3+0
27	MKT-734	Advanced Distribution Channels	3+0
28	TEC-730	Statistics with Technology Applications	3+0
29	TEC-731	Technology Policy & Strategy	3+0
30	TEC-732	Principles of Technology Innovation Management	3+0
31	TEC-733	Advance Business Intelligence & Analytics	3+0
32	TEC-734	IT Project Management	3+0
33	TEC-735	Artificial Intelligence & Machine Learning	3+0
34	TEC-736	Emerging Trends in Technologies	3+0
35	TEC-737	Technopreneurship	3+0



DEPARTMENT OF ARCHITECTURE & ENVIRONMENTAL DESIGN

VISION

To contribute towards sustainable development by producing professionals who are aware and sensitive towards natural & built environment and community issues, and possess required knowledge and skills with esteem for research to resolve them through aesthetically appealing architectural solution.

MISSION

To instill in our students the basic and time relevant knowledge & skill sets, enabling them to find creative solutions for individual & communal issues through research leading to architectural design solutions and to make social and environmental consideration, a part of their design thinking through curriculum, projects selection, rubrics, and by connecting students with organizations & professionals, who have expertise in sustainable projects.

INTRODUCTION

The Department of Architecture & Environmental Design at the Ziauddin University Faculty of Engineering, Science, Technology & Management is established with the objective to develop into an institution of architectural thought focusing on the socio-cultural, environmental, technological, artistic and metaphysical standards. The academic programs of the department follow the curriculum outlines developed by the Higher Education Commission (HEC) and concerned regulatory authorities, where applicable.



BACHELOR IN ARCHITECTURE (B. ARCH.)

INTRODUCTION

Architecture is a multifaceted field which deals mainly with planning and designing of spaces and the structures which enclose them. It is a combination of art and science which needs knowledge of design, environment, society and technology for problem identification and solving through some aesthetically sound solutions.

In the scenario of current era of environmental and social issues, Architectural studies are in high demand around the world and its popularity is increasing due to the fact that it has lots of potential for growth in contemporary market. Particularly in Pakistan, there is a growing trend of hiring professional architects for designing all types of building with interior.

Due to its wide acceptance, it has become imperative to train future architects with right architecture knowledge and design tools in order to facilitate the highly competitive construction industry.

Keeping this in view Ziauddin University is introducing Bachelors of Architecture programme with the entitlement of B. Arch. Degree. Its curriculum is in line with the guidelines provided by HEC and Pakistan Council of Architects and Town Planners (PCATP).

WHY ARCHITECTURE FROM ZIAUDDIN UNIVERSITY?

Considering the diversity and rapid developments in the field of Architecture, the curriculum incorporates not only the core aspects of architecture such as Architectural Design, Interior Design, Landscape Design, Project Management and Urban Planning, but also consists of modern skills and tools including latest software, and concepts like Green Architecture & Building Information Modeling (BIM).

Further our focus is on skill specialization by aligning curriculum with outlines provided by national & international agencies like LEED, BREEAM, Autodesk etc. to enable the students to get international certifications for most time relevant knowledge and skill sets like Green Architecture, BIM etc.

CAREER PROSPECTS

Diverse nature of the field opens multiple avenues for the architecture graduates in both public and private sectors locally and internationally; the domain includes,

- Architectural (Building) Design
- Interior Design
- Product Design
- Landscape Design
- Urban Planning
- Project & Construction Management
- Building Information Modeling (BIM)
- Environmental and Social Consultancy

Architects can also establish their own businesses after some years of experience in an organization / Architectural Firm.

ELIGIBILITY CRITERIA

- Minimum Second division (50 % and above) in the Intermediate (Pre-Engineering), A-Levels or equivalent qualifications with Math as a compulsory subject.
 - For HSC equivalent qualifications IBCC Equivalence Certificate is required.
 - D. A. E. with Math as compulsory subject
 - Aptitude Test & Interview will be conducted
- Ziauddin University admits students whose educational background is comprehensive and who can achieve success in higher education. Applications received for admission are reviewed by the concerned department. The applicants are required to appear in admission test and interview. The final merit is determined on the basis of past academic performance and performance in the aptitude test and interview.

FEE STRUCTURE

Bachelors in Architecture (B. Arch.)	Per Cr. Hr	Cr. Hrs.	Total (PKR)
Tuition	2,700	19	51,300
Examination	300	19	5,700
Semester Registration (Per Semester)			5,000
Student Activity (Per Semester)			2,000
Admission (One Time Only)			10,000
Misc Charges			45,000
Security Deposit			5,000
Grand Total (1st Semester)			124,000

PROGRAMME DURATION

Bachelor in Architecture (B. Arch.) - 5 Years

LOCATION

ZUFESTM, Education City, Link Road, Gadap Town, Karachi.

CONTACT INFORMATION

021-36644153, 021-36684406



FACULTY MEMBERS

DEPARTMENT OF ELECTRICAL ENGINEERING		
Dr. Muhammad Yousuf Irfan Zia	Associate Professor	PhD
Engr. Ashfaq Baloch	Sr. Lecturer	Master
Engr. Amad Ali Pathan	Lecturer	Master
Engr. Fazul Muhammad	Lecturer	Master
Engr. Muzammil Nayyar	Lab Engineer	Master
Engr. Syed Mudassir Ahmed	Lab Engineer	Bachelor
Engr. Muhammed Arsalaan	Lab Engineer	Bachelor
Mr. Waleed Farooqui	Lab Assistant	DAE
Mr. Ebad ul Haque	Lab Assistant	Bachelor
DEPARTMENT OF COMPUTER SCIENCE & SOFTWARE ENGINEERING		
Dr. Sheikh Muhammad Munaf	Professor	PhD
Dr. Syed Muhammad Atif	Assistant Professor	PhD
Mr. Arsal Ahmed Khan	Sr. Lecturer	MS
Ms. Sidra Farooq	Sr. Lecturer	MS
Mr. Abdul Salam	Lecturer	MS
Mr. Muhammad Anas	Lecturer	MS
Ms. Aqsa Shahid	Lecturer	MS
Mr. Muhammad Mudassir	Lab Lecturer	BS (Computer Science)
Mrs. Faryal Zehra	Lab Lecturer	BS (Software Engineering)
DEPARTMENT OF MANAGEMENT, TECHNOLOGY & INFORMATION SCIENCE		
Dr. Saifullah	Assistant Professor	PhD
Dr. Nazia Keerio	Assistant Professor	PhD
Ms. Sania Zafar	Sr. Lecturer	MBA
Mr. Ghazanfar Ali	Lecturer	MBA
Mr. Rashid Ali	Lecturer	MPhil
DEPARTMENT OF CIVIL ENGINEERING		
Dr. Samia Tariq	Associate Professor	PhD
Engr. Sumaira Ismail	Sr. Lecturer	ME
Engr. Jahanzaib Sherani	Lecturer	ME
Engr. Kashif Rafique Memon	Lecturer	ME
Engr. Dhanik Vikrant	Lab Engineer	ME
Engr. Alyas Khan	Lab Engineer	ME
Dr. Abdul Aziz Ansari	Professor	PhD
Dr. Samia Tariq	Associate Professor	PhD
Dr. Gul Muhammad	Assistant Professor	PhD
Engr. Muhammad Kamran	Senior Lecturer	ME (Master of Engineering)
Engr. Sumaira Ismail	Senior Lecturer	MS (Master of Science)
Engr. Jahanzaib Sherani	Lecturer	Enrolled in PhD
Engr. Kashif Rafique Memon	Lecturer	Enrolled in PhD
Engr. Abdul Rafay Khan	Lecturer	MS (Master of Science)
Engr. Dhanik Vikrant	Lab Engineer	M.Eng. (Master of Engineering)
Engr. Alyas Khan	Lab Engineer	M.Eng. (Master of Engineering)

DEPARTMENT OF BIOMEDICAL ENGINEERING		
Dr. Saad Jawaid Khan	Professor	PhD
Dr. Ali Asghar	Assistant Professor	PhD
Dr. Fariha Ibrahim	Assistant Professor	PhD
Dr. Bushra Zafar	Assistant Professor	PhD
Dr. Natasha Butt	Assistant Professor	PhD
Dr. Iffat Imran	Sr. Lecturer	PhD
Engr. Mehwish Faiz	Assistant Professor	ME
Engr. Hira Zahid	Assistant Professor	ME
Engr. Daniyal Alvi	Lecturer	ME
Ms. Farhat ul Ain Siddique	Lecturer	MPhil
Ms. Nusrat Zehra	Lecturer	MPhil
Engr. Taha Mushtaq Shaikh	Lecturer	MBA
Engr. Sana Rehan	Lecturer	ME
Ms. Manal Noushad	Lecturer	ME
Rabia Fatima	Lab Lecturer	
Ms. Farhat Perveen	Lecturer	
Mr. Ehtesham Asif	Lecturer	
Ms. Rabiya Asad	Lecturer	
Syed Hassan Sarwar	Lab Engineer	
Ms. Nadia Tahir	Lab Lecturer	
Mr. Ehtesham Asif	Lecturer	
Ms. Farhat Perveen	Lecturer	
Ms. Rabiya Asad		
Ms. Nadia Tahir	Lab Lecturer	
Ms. Sameen Ansari	Lab Lecturer	
DEPARTMENT OF ARCHITECTURE AND ENVIRONMENTAL DESIGN		
Ar. Abdul Nasir Qureshi	Associate Professor/HOD	M. Arch.
Ar. Lalarukh Ahmed	Associate Professor	M. Arch.
Ar. Rabia Bibi	Lecturer	M. Arch.
Rabia Siddiqui	Assistant Professor	Masters
Ar. Mushtaque Ali	Assistant Professor	PhD in Process, M. Arch.
Ar. Surhan Fatima	Lecturer	M. Arch.
Ar. Aziz-ullah Khan	Studio Coordinator	B. Arch.



FACULTY OF LIBERAL ARTS & HUMAN SCIENCES

FACULTY OF LIBERAL ARTS & HUMAN SCIENCES

KEY INFORMATION

DEAN

Dr. Shehla Najib Sidiki

CONTACT INFORMATION

Website:

<https://lahs.zu.edu.pk>

Telephone: +92-21-35305790,
+92-21-35148626

Email: info@zu.edu.pk

Locate Us:

Ground Floor, H.A Arcade, B.C-05,
Block-1, Clifton, Karachi-75600



INTRODUCTION

The programmes offered at the Faculty of Liberal Arts and Human Sciences encourage students to cross traditional disciplinary boundaries to access available knowledge and skills in areas relevant to their interests and future life aspirations. For instance, we are happy to see a student majoring in Visual Arts study Biology, Psychology, and Anatomy as electives, and apply the knowledge and skills to the study of the human body in works of art. We believe that this interdisciplinary approach not only fosters the development of a holistic understanding and appreciation of the world around us, but it also helps to nurture the graduates' skills and abilities to analyse in-depth complex human issues which further results in identifying ways to address the issues effectively for peace and harmony.

VISION

To develop empowered individuals that are able to deal with the complexities of life and society using critical thinking, communication skills and a problem-solving approach.

MISSION

To provide students with a broad knowledge of the world to maximize their potential and engagement with human issues as citizens of a globalized and increasingly technological world.

THE PUBLIC FORUM SERIES

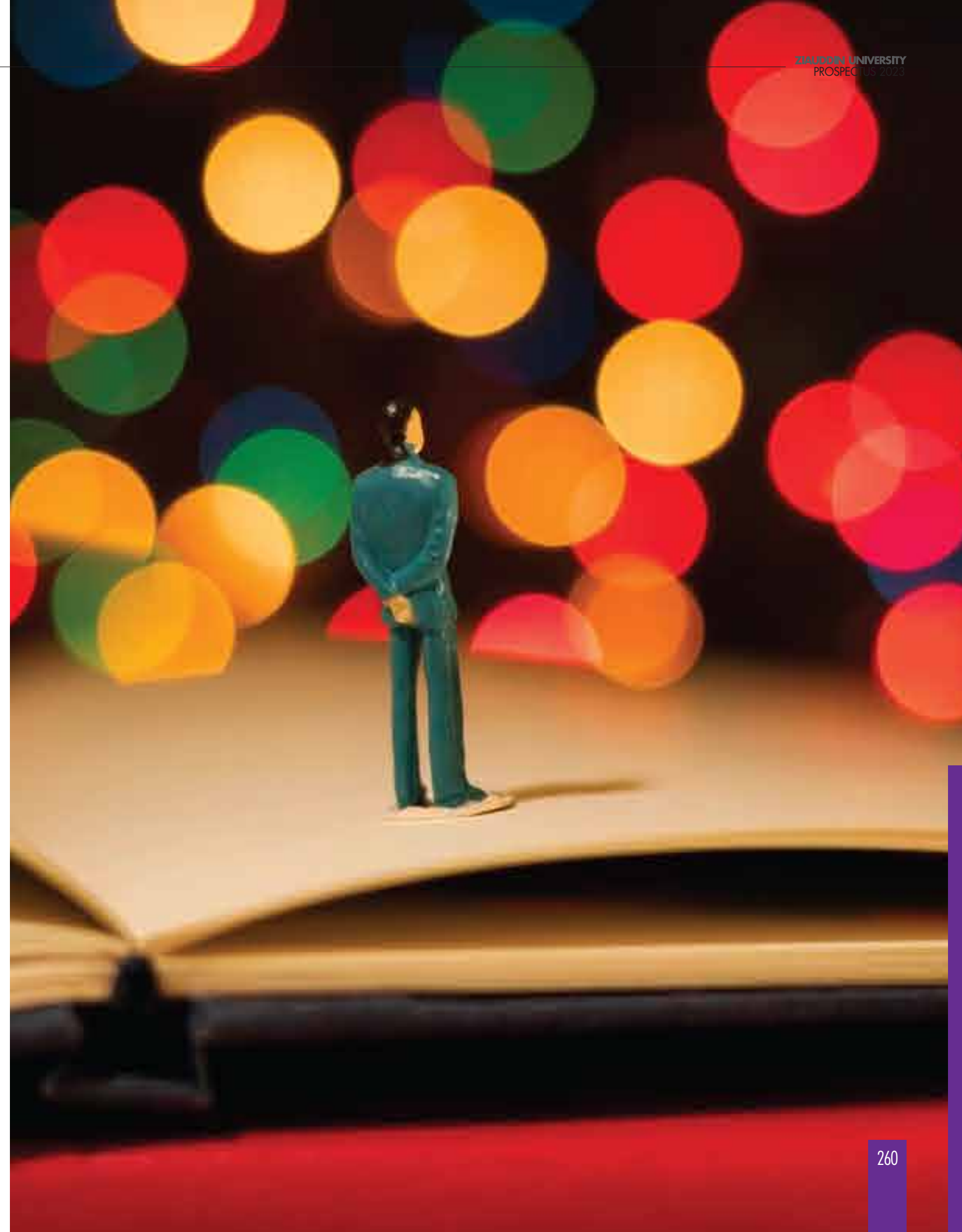
The Public Forum, an initiative of the Faculty of Liberal Arts and Human Sciences, aims to provide a platform for meeting of minds and provide an opportunity to the youth, in particular, to engage with the civil society in a well-informed discussion on public issues. It is held quarterly and is open to both students from all educational institutions and members of the public at large. It is offered free of charge to allow maximum participation of people from all walks of life.

LEARNING AND TEACHING

Our learning and teaching philosophy is student-centered. The aim is to develop students as life-long learners. Students are provided an environment for self-growth and are engaged in tasks and activities that help them grow as critical thinkers and autonomous learners. Both in-class and out-of-class opportunities to discuss, debate and dialogue on concepts and shared experiences lead to the learning and utilisation of these concepts in the real world. Internships and service learning are important components of students' learning experience in all colleges of the faculty.

CAREER OPPORTUNITIES

Graduates of the various programmes in the Faculty of Liberal Arts and Human Sciences will develop a range of 21st Century employability skills, such as analysis and synthesis, working collaboratively in teams, critical thinking and problem-solving, and effective oral and written communication. As a result, they will be able to follow diverse career pathways in various fields such as communication and design, banking, teaching, research, journalism, and media.



COLLEGE OF MEDIA SCIENCES

KEY INFORMATION

FOUNDING DIRECTOR
FAIZAN S. SYED

ACTING PRINCIPAL
Dr. Shehla Najib Sidki

CONTACT INFORMATION

Website:
<https://zcoms.zu.edu.pk/>
Telephone:
+92-21-35305474
Email:
zcoms@zu.edu.pk
Locate Us:
Admin Office, 3rd Floor, Dental
Building

“My experience at Ziauddin College of Media Sciences has been one of a kind. Throughout these four years, each course has helped me learn about the world of media and what it takes to survive and thrive in one. From group projects, presentations and practical assignments to solo-based learning, Ziauddin College of Media Sciences has it all. However, one of the main highlight of the college is its teachers. Each teacher is well-versed in their respective field. They not only teach, but encourage students to do their best, no matter what. Here in ZCOMS, one can learn and present their ideas in an inclusive space and receive constructive feedback from industry professionals.

As far as academics go, ZCOMS has really accomplished their mission to provide only the best. As a student, I have noticed a lot of growth within myself in the past four years. Theory-based learning and practical learning have given me a chance to enhance my academic knowledge as well as interpersonal skills. The camera equipment and studios at ZCOMS have also helped me implement my knowledge and help me better understand my subjects. Let's not forget my peers who have made my journey at ZCOMS a very exciting one.

All in all, ZCOMS has provided me with four memorable years of learning, understanding, and growing not only in my academics but as a person too, and I am glad to be a part of a college that treats its students so well.”

SANILA AZHAR
BS IN COMMUNICATION & MEDIA SCIENCES - 2023

INTRODUCTION

Ziauddin College of Media Sciences (ZCOMS) at Ziauddin University was conceived with a vision to bridge the gap between academia and practice. Therefore, the essence of programmes offered at ZCOMS is to train students in parallel application of the different areas, be it print, radio, TV, news, social media, or emerging technologies.

The college caters to the growing needs of Pakistan's media industry. As the media industry continues to grow, there is a great deal of demand for qualified media professionals with academic and practical knowledge required by the industry. The college offers a 4-year bachelor's degree in Communication & Media Sciences and a 4-year bachelor's degree in Digital Media Marketing. These undergraduate academic programmes cover a variety of liberal arts and technically oriented subjects including theoretical, analytical, and practical application to communication process and the media. ZCOMS draws its strength from its on-site radio station, 'ZU FM 98.2' and its own digital agency 'East River'. As

a result, ZCOMS is emerging as a premier media institution in Pakistan.

VISION

Prepare students to become media professionals of global caliber who are futuristic in vision, possessing interdisciplinary leadership qualities.

MISSION

ZCOMS offers media education by providing state-of-the-art infrastructure to develop curiosity and highest intellectual and professional growth for the advancement of the media industry and development of a coherent communicative ethical society through research, exploration, and experimentation.

PROGRAMMES OFFERED

ZCOMS offers the following two 4-year undergraduate programmes:

- Bachelor of Studies in Communication and Media Sciences (BS-CMS)
- Bachelor of Studies in Digital Media Marketing (BS-DMM)

BS IN COMMUNICATION & MEDIA SCIENCES

VISION

To provide quality education in Media Sciences for engagement in and growth of the media industry and to create interdisciplinary leaders.

MISSION

BS-CMS incorporates a blend of theoretical and practical education in Media Sciences that develops intellectual potential through modern collaborative pedagogy enabling wise, forward-looking critical thinkers and leaders to grow professionally.

INTRODUCTION

This programme covers a variety of liberal arts and technically oriented subjects covering theoretical, historical, analytical, and critical approaches to communication processes and the media. At the end of the four years programme, the graduates are equipped with necessary technical and professional orientation to qualify for jobs in businesses or institutions that require effective visual communicators as well as the background needed to pursue further education in related fields.

The BS-CMS programme offers the following specialisations as majors:

COMMUNICATION DESIGN

This specialisation teaches students how to translate ideas into concepts and design with the help of visuals to attract attention, interest, and to sell an idea. It is a multidisciplinary field that combines marketing, advertising, and design; covers courses on video production, art, illustration, typography, image manipulation, and branding. The students are trained to create meaningful messages with compelling images for various mediums. The specialisation enhances the overall communicative and visual skills of the students.

FILM & TV

Film, in its many forms, does not only entertain, but also informs and brings the world together. At ZCOMS, the nature of the Film & TV specialisation ensures that the student understands both the theoretical and the practical framework of the discipline. Students are taught by leading media professionals who collaborate closely with them to develop their skills. Access to professional production facilities gives the students an opportunity to

gain first-hand experience and prepare them for the professional world.

JOURNALISM

The human appetite for information is insatiable and the demand for news will always be prevalent. With unique and thorough training in reporting, writing, editing, news, and skills of interviewing, students leave their mark in the evolving field of journalism. At ZCOMS, the Journalism programme teaches students the art of communicating clearly and directly with their audience and writing objectively without personal bias, which is the true essence of journalism. Over the past decade, the medium has changed greatly with the surge in web, blogging and social media platforms. These technologies serve as vital means of immediate and instantaneous source of news and information. The students specialising in journalism are trained to harness all the modern technologies that are shaping the news industry.

MINORS

The BS-CMS degree is designed in a way to allow students to get a minor in a field different than their major by taking four courses (12 credit hours) from another specialisation.

DUAL MAJOR

Students can opt for a dual major by taking 12 additional courses (36 credit hours) from a different specialisation.

CAREER OPPORTUNITIES

The graduates of BS-CMS can pursue a variety of career pathways leading to senior positions in the media industry. The organisations the graduates can find opportunities in are: advertising agencies, production houses, digital media agencies, FMCG companies, media buying houses, TV channels, and radio stations, to name a few. The skills and knowledge imparted help graduates in their career paths leading to important roles in the field such as script writers, art directors, copywriters, producers, editors, graphic designers, data analysts, content writers, digital content producers, news reporters, and PR professionals.

DEGREE STRUCTURE

The degree is sub-divided into the following course categories: General Education, Foundation, Major, and Minor/Elective.



Study Scheme of BS Communication & Media Sciences – Major in Communication Design

All courses except Internship are 3 credit hours each. Internship is a non-credit hour course.

SEMESTER 1

No.	Code	Course	Category
01	GED101	Design Fundamentals	General Education
02	GED108	Functional English	General Education
03	GED105	Islamic Studies (Moral Ethics)	General Education
04	MSG101	Art, Design & Film History	Foundation
05	MSG109	Drawing & Perspective	Foundation
06	MSG102	Multimedia Foundation	Foundation

SEMESTER 2

No.	Code	Course	Category
07	GED103	Pakistan Studies	General Education
08	GED110	Sociology	General Education
09	MSG106	Art of Music	Foundation
10	MSG108	Digital Graphics	Foundation
11	MSG103	Presentation Skills	Foundation
12	MSG105	Digital Photography	Foundation

SEMESTER 3

No.	Code	Course	Category
13	GED201	Communication Studies	General Education
14	GED210	Philosophy	General Education
15	MSG203	Concept & Content Development	Foundation
16	MSG206	Camera & Lighting Techniques	Foundation
17	MSG202	Digital Audio Video	Foundation
18	MSG204	Digital Marketing Fundamentals	Foundation

SEMESTER 4

No.	Code	Course	Category
19	GED209	Maths & Stats	General Education
20	GED211	Media Psychology	General Education
21	GED202	Media Writing	General Education
22	MSG201	Drama & Theatre	Foundation
23	MSC203	Digital Photography Post	Major
24	MSC202	Design Thinking	Major

SEMESTER 5

No.	Code	Course	Category
25	MSG304	Media Laws & Ethics	Foundation
26	MSG305	Radio Programming & Production	Foundation
27	MSF301	Art Direction	Major
28	MSC306	Design Practice	Major
29	MSG309	Editing & Grading	Major
30	MSD306	Integrated Marketing Communications	Major

SEMESTER 6

No.	Code	Course	Category
31	GED301	Research Methods	General Education
32	MSC303	Branding Design	Major
33	MSC309	Media Planning	Major
34	MSD311	Social Media Content Production	Major
35	MSC311	UX/UI Development	Major
36	XXX001	Elective 1	Minor / Elective

No.	Code	Course	Category
	MSG414	Internship	Foundation

SEMESTER 7

No.	Code	Course	Category
37	MSG401	Entrepreneurship	Foundation
38	MSC401	Packaging Design	Major
39	MSC412	Visual Communication Challenges	Major
40	MSC413	Thesis I - Communication Design	Major
41	XXX002	Elective 2	Minor / Elective

SEMESTER 8

No.	Code	Course	Category
42	MSC414	Thesis II - Communication Design	Major
43	XXX003	Elective 3	Minor / Elective
44	XXX004	Elective 4	Minor / Elective

Study Scheme of BS Communication & Media Sciences – Major in Film & TV

All courses except Internship are 3 credit hours each. Internship is a non-credit hour course.

SEMESTER 1

No.	Code	Course	Category
01	GED101	Design Fundamentals	General Education
02	GED108	Functional English	General Education
03	GED105	Islamic Studies (or Moral Ethics)	General Education
04	MSG101	Art, Design & Film History	Foundation
05	MSG109	Drawing & Perspective	Foundation
06	MSG102	Multimedia Foundation	Foundation

SEMESTER 2

No.	Code	Course	Category
07	GED103	Pakistan Studies	General Education
08	GED110	Sociology	General Education
09	MSG106	Art of Music	Foundation
10	MSG108	Digital Graphics	Foundation
11	MSG103	Presentation Skills	Foundation
12	MSG105	Digital Photography	Foundation

SEMESTER 3

No.	Code	Course	Category
13	GED201	Communication Studies	General Education
14	GED210	Philosophy	General Education
15	MSG203	Concept & Content Development	Foundation
16	MSG206	Camera & Lighting Techniques	Foundation
17	MSG202	Digital Audio Video	Foundation
18	MSG204	Digital Marketing Fundamentals	Foundation

SEMESTER 4

No.	Code	Course	Category
19	GED209	Maths & Stats	General Education
20	GED211	Media Psychology	General Education
21	GED202	Media Writing	General Education
22	MSG201	Drama & Theatre	Foundation
23	MSF202	Film Design	Major
24	MSF201	Script Writing	Major

SEMESTER 5

No.	Code	Course	Category
25	MSG304	Media Laws & Ethics	Foundation
26	MSG305	Radio Programming & Production	Foundation
27	MSF301	Art Direction	Major
28	MSF304	Direction	Major
29	MSG309	Editing & Grading	Major
30	MSF308	Life Drawing	Major

SEMESTER 6

No.	Code	Course	Category
31	GED301	Research Methods	General Education
32	MSF303	Audio Recording & Production	Major
33	MSF307	Digital Compositing	Major
34	MSF309	Production	Major
35	MSF302	Storyboarding	Major
36	XXX001	Elective 1	Minor / Elective

No.	Code	Course	Category
-	MSG414	Internship	Foundation

SEMESTER 7

No.	Code	Course	Category
37	MSG401	Entrepreneurship	Foundation
38	MSF411	Documentary Writing & Production	Major
39	MSF401	Sound Design	Major
40	MSF413	Thesis I - Film & TV	Major
41	XXX002	Elective 2	Minor / Elective

SEMESTER 8

No.	Code	Course	Category
42	MSF414	Thesis II - Film & TV	Major
43	XXX003	Elective 3	Minor / Elective
44	XXX004	Elective 4	Minor / Elective

Study Scheme of BS Communication & Media Sciences – Major in Journalism

All courses except Internship are 3 credit hours each. Internship is a non-credit hour course.

SEMESTER 1

No.	Code	Course	Category
01	GED101	Design Fundamentals	General Education
02	GED108	Functional English	General Education
03	GED105	Islamic Studies (or Moral Ethics)	General Education
04	MSG101	Art, Design & Film History	Foundation
05	MSG109	Drawing & Perspective	Foundation
06	MSG102	Multimedia Foundation	Foundation

SEMESTER 2

No.	Code	Course	Category
07	GED103	Pakistan Studies	General Education
08	GED110	Sociology	General Education
09	MSG106	Art of Music	Foundation
10	MSG108	Digital Graphics	Foundation
11	MSG103	Presentation Skills	Foundation
12	MSG105	Digital Photography	Foundation

SEMESTER 3

No.	Code	Course	Category
13	GED201	Communication Studies	General Education
14	GED210	Philosophy	General Education
15	MSG203	Concept & Content Development	Foundation
16	MSG206	Camera & Lighting Techniques	Foundation
17	MSG202	Digital Audio Video	Foundation
18	MSG204	Digital Marketing Fundamentals	Foundation

SEMESTER 4

No.	Code	Course	Category
19	GED209	Maths & Stats	General Education
20	GED211	Media Psychology	General Education
21	GED202	Media Writing	General Education
22	MSG201	Drama & Theatre	Foundation
23	MSJ201	Journalism Principles	Major
24	MSJ202	Media & Politics	Major

SEMESTER 5

No.	Code	Course	Category
25	MSG304	Media Laws & Ethics	Foundation
26	MSG305	Radio Programming & Production	Foundation
27	MSJ303	Digital Journalism	Major
28	MSG309	Editing & Grading	Major
29	MSJ301	News & TV Production	Major
30	MSJ305	News Writing & Reporting	Major

SEMESTER 6

No.	Code	Course	Category
31	GED301	Research Methods	General Education
32	MSJ308	Feature Writing	Major
33	MSD311	Social Media Content Production	Major
34	MSJ310	Sub Editing	Major
35	MSJ302	Urdu News Writing	Major
36	XXX001	Elective 1	Minor / Elective

No.	Code	Course	Category
-	MSG414	Internship	Foundation

SEMESTER 7

No.	Code	Course	Category
37	MSG401	Entrepreneurship	Foundation
38	MSF411	Documentary Writing & Production	Major
39	MSJ401	Investigative Journalism	Major
40	MSJ413	Thesis I - Journalism	Major
41	XXX002	Elective 2	Minor / Elective

SEMESTER 8

No.	Code	Course	Category
42	MSJ414	Thesis II - Journalism	Major
43	XXX003	Elective 3	Minor / Elective
44	XXX004	Elective 4	Minor / Elective

COMMUNICATION DESIGN MINOR/ELECTIVES

Any course (other than thesis) offered in Communication Design major can be selected as a minor/elective from any other major (provided the prerequisite requirement is met). If all 4 courses are selected from Communication Design major, then it will be considered as a minor in Communication Design.

FILM & TV MINOR/ELECTIVES

Any course (other than thesis) offered in Film & TV major can be selected as a minor/elective from any other major (provided the prerequisite requirement is met). If all 4 courses are selected from Film & TV major, then it will be considered as a minor in Film & TV.

JOURNALISM MINOR/ELECTIVES

Any course (other than thesis) offered in Journalism major can be selected as a minor/elective from any other major (provided the prerequisite requirement is met). If all 4 courses are selected from Journalism major, then it will

be considered as a minor in Journalism.

DIGITAL MEDIA MARKETING MINOR/ELECTIVES

All courses are 3 credit hours each. These courses are also offered as electives.

- Marketing Management
- Digital Media Foundation
- E-Business Essentials
- Editing & Grading
- Integrated Marketing Communications
- Web Development
- Database Principles
- Media Planning
- Social Media Content Production
- UX/UI Development
- Content Management Systems
- Business Intelligence

SOCIAL MEDIA CONTENT & MONETISATION MINOR

All courses are 3 credit hours each. All 4 of the following courses must be completed in order to get a minor in Social Media Content

- & Monetisation.
- Becoming a Social Media Personality
 - Social Media Content Production
 - Content Monetisation
 - Social Media as a Business

DIGITAL AUDIO PRODUCTION MINOR

All courses are 3 credit hours each. All 4 of the following courses must be completed in order to get a minor in Digital Audio Production.

- Audio Production Environment
- Synthesis & Sound Design

- Mixing & Mastering
- Music Industry Dynamics

VFX MINOR

All courses are 3 credit hours each. All 4 of the following courses must be completed in order to get a minor in Digital Audio Production.

- Animation Principles & Kinematics
- Particles & Effects
- Match Move & Motion Tracking
- Lighting, Reflection, & Post Processing Effects



BS IN DIGITAL MEDIA MARKETING

VISION

To provide quality education in Digital Media for engagement in and growth of the field of Digital Marketing and create interdisciplinary leaders.

MISSION

BS-DMM incorporates a blend of theoretical and practical education in Digital Media that develops intellectual potential through modern collaborative pedagogy enabling, forward-looking critical thinkers and leaders to grow professionally.

INTRODUCTION

The growth of social media has not only changed the way businesses operate but also influenced the way products and services are marketed. The latest online tools, technologies and platforms enable businesses to reach their targeted customer more accurately than ever before and interact with them using rich multimedia content. Recognizing the need of the day, ZCOMS offers a 4-year undergraduate programme in “Digital Media Marketing” where students will be taught the most effective ways of integrating media content with digital marketing activities. The students will be able to understand the broad system governing marketing activities and will get insights in different relevant areas such as data management, web content development, media management for web and social media targeting and optimisation.

Study Scheme of BS Digital Media Marketing

All courses except Internship are 3 credit hours each. Internship is a non-credit hour course.

SEMESTER 1

No.	Code	Course	Category
01	GED101	Design Fundamentals	General Education
02	GED108	Functional English	General Education
03	GED105	Islamic Studies (Moral Ethics)	General Education
04	MSG101	Art, Design & Film History	Foundation
05	MSG109	Drawing & Perspective	Foundation
06	MSG102	Multimedia Foundation	Foundation

SEMESTER 2

No.	Code	Course	Category
07	GED103	Pakistan Studies	General Education
08	GED110	Sociology	General Education
09	MSG106	Art of Music	Foundation
10	MSG108	Digital Graphics	Foundation
11	MSG103	Presentation Skills	Foundation
12	MSG105	Digital Photography	Foundation

MINORS

Students can get a minor by taking four courses (12 credit hours) from a specialisation other than Digital Media Marketing.

DUAL MAJOR

Students can opt for a dual major by taking 12 additional courses (36 credit hours) from a different specialisation.

CAREER OPPORTUNITIES

The field of digital marketing provides an opportunity for many creative people. The graduates of BS-DMM can pursue a variety of career pathways. From digital media agencies to production houses, from FMCG companies to public relations, digital media graduates can make their mark in any industry. A variety of jobs are available to the candidates trained in the field including content writers, digital media content developers, bloggers, vloggers, digital marketing strategists, data analysts and many more.

DEGREE STRUCTURE

The degree is sub-divided in the following course categories: General Education, Foundation, Major, and Minor/Elective.

SEMESTER 3

No.	Code	Course	Category
13	GED201	Communication Studies	General Education
14	GED210	Philosophy	General Education
15	MSG203	Concept & Content Development	Foundation
16	MSG206	Camera & Lighting Techniques	Foundation
17	MSG202	Digital Audio Video	Foundation
18	MSG204	Digital Marketing Fundamentals	Foundation

SEMESTER 4

No.	Code	Course	Category
19	GED209	Maths & Stats	General Education
20	GED211	Media Psychology	General Education
21	GED202	Media Writing	General Education
22	MSG201	Drama & Theatre	Foundation
23	MSD203	Marketing Management	Major
24	MSD201	Digital Media Foundation	Major

SEMESTER 5

No.	Code	Course	Category
25	MSG304	Media Laws & Ethics	Foundation
26	MSG305	Radio Programming & Production	Foundation
27	MSD304	E-Business Essentials	Major
28	MSG309	Editing & Grading	Major
29	MSD306	Integrated Marketing Communications	Major
30	MSD305	Web Development	Major

SEMESTER 6

No.	Code	Course	Category
31	GED301	Research Methods	General Education
32	MSD303	Database Principles	Major
33	MSC309	Media Planning	Major
34	MSD311	Social Media Content Production	Major
35	MSC311	UX/UI Development	Major
36	XXX001	Elective 1	Minor / Elective

No.	Code	Course	Category
	MSG414	Internship	Foundation

SEMESTER 7

No.	Code	Course	Category
37	MSG401	Entrepreneurship	Foundation
38	MSD401	Content Management Systems	Major
39	MSD412	Business Intelligence	Major
40	MSD413	Thesis I - Digital Media Marketing	Major
41	XXX002	Elective 2	Minor / Elective

SEMESTER 8

No.	Code	Course	Category
42	MSD414	Thesis II - Digital Media Marketing	Major
43	XXX003	Elective 3	Minor / Elective
44	XXX004	Elective 4	Minor / Elective

COMMUNICATION DESIGN MINOR/ELECTIVES

All courses are 3 credit hours each.

- Digital Photography Post
- Design Thinking
- Art Direction
- Design Practice
- Editing & Grading
- Integrated Marketing Communications
- Branding Design
- Media Planning
- Social Media Content Production
- UX/UI Development
- Packaging Design
- Visual Communication Challenges

FILM & TV MINOR/ELECTIVES

All courses are 3 credit hours each.

- Film Design
- Script Writing
- Art Direction
- Direction
- Editing & Grading
- Life Drawing
- Audio Recording & Production
- Digital Compositing
- Production
- Storyboarding
- Documentary Writing & Production
- Sound Design

JOURNALISM MINOR/ELECTIVES

All courses are 3 credit hours each.

- Journalism Principles
- Media & Politics
- Digital Journalism

- Editing & Grading
- News & TV Production
- News Writing & Reporting
- Feature Writing
- Social Media Content Production
- Sub Editing
- Urdu News Writing
- Documentary Writing & Production
- Investigative Journalism

SOCIAL MEDIA CONTENT & MONETISATION MINOR

All courses are 3 credit hours each. These courses are not offered as electives.

- Becoming a Social Media Personality
- Social Media Content Production
- Content Monetisation
- Social Media as a Business

DIGITAL AUDIO PRODUCTION MINOR

All courses are 3 credit hours each. These courses are not offered as electives.

- Audio Production Environment
- Synthesis & Sound Design
- Mixing & Mastering
- Music Industry Dynamics

VFX MINOR

All courses are 3 credit hours each. These courses are not offered as electives.

- Animation Principles & Kinematics
- Particles & Effects
- Match Move & Motion Tracking
- Lighting, Reflection, & Post Processing Effects

Study Scheme of Associate Degree in Media Sciences for either BS Communication & Media Sciences or BS Digital Media Marketing

Students have the option to exit the programme with an associate degree after completing 60 credit hours of the following listed courses with the title of Associate of Media Sciences.

All courses except Internship are 3 credit hours each. Internship is a non-credit hour course.

SEMESTER 1

No.	Code	Course	Scheme Category
01	GED101	Design Fundamentals	General Education
02	GED108	Functional English	General Education
03	GED105	Islamic Studies (or Moral Ethics)	General Education
04	MSG101	Art, Design & Film History	Foundation
05	MSG109	Drawing & Perspective	Foundation
06	MSG102	Multimedia Foundation	Foundation

SEMESTER 2

No.	Code	Course	Scheme Category
07	GED103	Pakistan Studies	General Education
08	GED110	Sociology	General Education
09	MSG106	Art of Music	Foundation
10	MSG108	Digital Graphics	Foundation
11	MSG103	Presentation Skills	Foundation
12	MSG105	Digital Photography	Foundation

SEMESTER 3

No.	Code	Course	Scheme Category
13	GED201	Communication Studies	General Education
14	GED210	Philosophy	General Education
15	MSG203	Concept & Content Development	Foundation
16	MSG206	Camera & Lighting Techniques	Foundation
17	MSG202	Digital Audio Video	Foundation
18	MSG204	Digital Marketing Fundamentals	Foundation

SEMESTER 4

No.	Code	Course	Scheme Category
19	GED202	Media Writing	General Education
20	MSG201	Drama & Theatre	Foundation

ELIGIBILITY CRITERIA

- Minimum A-Levels 3 passes from a recognized institution with equivalency certificate issued by Inter Board Committee of Chairmen (ibcc.edu.pk), OR
- Intermediate pass or equivalent with equivalency certificate issued by Inter Board Committee of Chairmen (ibcc.edu.pk)
- Merit will be decided upon basic admission criteria. However, the final list will be based on evaluation of ZCOMS entrance test score and interview.

FEE STRUCTURE

Admission fee	Rs. 10,000
Security deposit	Rs. 10,000
Activity fee	Rs. 10,000 (Per Year)
Course fee	Rs. 15,000/- per course & Rs.1000/- per exam
Thesis 1	Rs. 20,000/- Thesis 1 & Rs. 5000/- Thesis jury
Thesis 2	Rs. 20,000/- Thesis 2 & Rs. 5000/- Thesis jury

PROGRAMME DURATION

BS-CMS and BS-DMM are a four-year undergraduate programme comprising of 132 credit hours and 44 courses plus internship. These courses can be completed with a minimum duration of 4 years and maximum duration of 6 years.

ACADEMIC CALENDAR FOR THE YEAR 2023-24**Fall 2023**

Commencement of Regular Classes	Mon, Sep 11, 2023
Classes End	Sun, Dec 24, 2023
Final Exams Begin	Mon, Jan 01, 2024
Final Exams End	Sun, Jan 07, 2024

Spring 2024

Commencement of Regular Classes	Mon, Jan 22, 2024
Classes End	Sun, May 12, 2024
Final Exams Begin	Mon, May 20, 2024
Final Exams End	Sun, May 26, 2024

Summer 2024

Commencement of Regular Classes	Mon, Jun 24, 2024
Classes End	Sun, Aug 11, 2024
Final Exams Begin	Mon, Aug 12, 2024
Final Exams End	Wed, Aug 15, 2024

FACULTY MEMBERS**Mr. Faizan S. Syed**

Founder Director,
Ziauddin College of Media Sciences
MBA Finance and Investment Banking,
Cornell University, NY
BA Psychology and Economics,
University of Virginia

Dr. Shehla Najib Sidiki

Dean, Faculty of Liberal Arts &
Human Sciences
PhD Management, SZABIST

Mr. Latif Abbasi

Associate Professor
MPhil, Iqra University, Karachi
MBA Southeastern University Washington DC

Mr. Ata Syed

Assistant Professor
MBA Marketing, Iqra University
MMS Advertising, Iqra University

Dr. Muhammad Rehan

Assistant Professor
Ph.D., Islamia University, Bahawalpur

CONTACT INFORMATION**Address**

3rd Floor, Gate No 6, 4/B, Shahrah-e-Ghalib, Clifton, Karachi (75600)

Phone

021-38658952 (2294)

WhatsApp

0321-3665938

Email

zcoms@zu.edu.pk

COLLEGE OF LANGUAGES, LITERATURE & CULTURE

KEY INFORMATION

Academic Coordinator
Ms. Hina Khan

CONTACT INFORMATION

Website:
<https://cllc.zu.edu.pk/>
Telephone:
+92-21-35305790, +92-21-35148626
Email:
zeeshan.baig@zu.edu.pk
Locate Us:
Ground Floor, H.A Arcade, B.C-05,
Block-1, Clifton, Karachi-75600

“CLLC is a place of fun, culture, literature, learning, and so many more activities. Studying here has added extra value to my life by allowing me to meet different kinds of people and learn a number of new things. The faculty over here does not leave any stone unturned to shape one's future.”

MURK RIND
BS ENGLISH - FINAL YEAR STUDENT

Welcome to the College of Languages, Literature & Culture at Ziauddin University! We are a prestigious institution dedicated to providing high-quality education in languages, literature, and culture. Our college offers a diverse range of programmes designed to enhance linguistic proficiency, critical thinking, and cultural understanding.

From mastering languages and exploring the depths of literature to understanding the intersection of various disciplines such as sociology, psychology, gender studies, history, anthropology, and education, our curriculum is designed to broaden your horizons and develop your intellectual capabilities.

At the College of Languages, Literature & Culture, we strive to create an enriching learning environment. Our experienced faculty members employ innovative teaching methods that promote interactive learning, critical analysis, and creative expression. We encourage students to engage in academic discussions, seminars, and workshops, fostering intellectual growth and collaborative learning.

We provide state-of-the-art facilities to support your educational journey. Our well-stocked libraries and multimedia resources offer you the tools and resources necessary to excel in your studies. The college also organizes various educational activities such as literary events, cultural festivals, and guest lectures to enhance your learning experience and expose you to diverse perspectives.

Upon graduating from the College of Languages, Literature & Culture, you will be equipped with valuable skills that open doors to rewarding career opportunities. You can pursue careers in fields such as education, translation and interpretation, journalism, research, social change and development, cultural organizations, and more. Our programmes prepare you to become effective communicators, critical thinkers, and agents of positive change in society.

VISION

The College of Languages, Literature & Culture, housed within the Faculty of Liberal Arts and Human Sciences, aims to develop the next generation of citizens for an extremely fragmented yet interrelated world, with an appreciation and understanding of diversity in languages, literature and cultures within a broad humanistic context.

MISSION

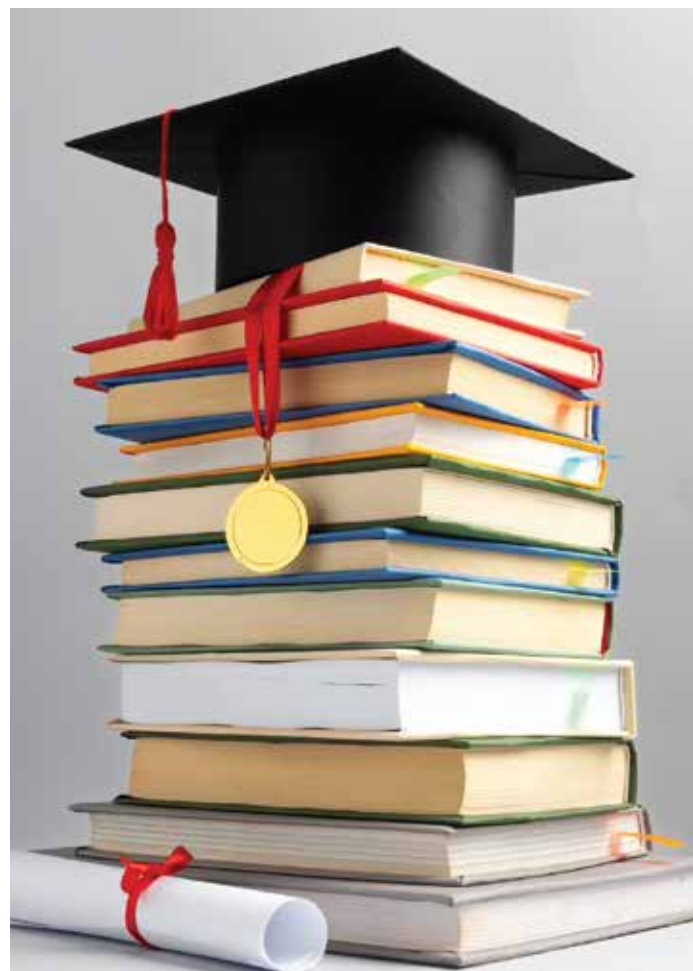
To engage in teaching, research and service in languages, literature and culture to develop graduates as critical thinkers with excellent language and communication skills, and an appreciation of diversity in cultures to promote tolerance and peace in a globalised world.

PROGRAMMES OFFERED

CLLC offers the following programmes:

Two 4-year undergraduate programmes:

- Bachelor of Studies in English (BS English)
- Bachelor of Studies in Social Change and Development



BS ENGLISH

VISION

To provide quality education in language and literature studies to help students understand and appreciate cultural, linguistic and ethnic diversity.

MISSION

Our mission is to offer a versatile and comprehensive BS English programme that cultivates a broad-based understanding of Linguistics and Literature and enables students to embrace and appreciate diversity alongside other 21st century learning skills.

PROGRAMME OVERVIEW

The 4 year BS programme allows students the freedom to choose and study a wide range of subjects, both within their Major and Minor as well as General Education courses to follow their diverse interests. While selecting a major provides them with a strong foundation in one concentrated area of study, the option to choose a minor from related disciplines can help them widen both their knowledge base and skill sets to follow a range of career options in their desired field.

The BS programme aims to develop graduates with critical thinking and other 21st-century skills such as creativity, collaboration, critical thinking and communication as well as problem-solving skills rated highly by employers. This will provide them with the cutting-edge skill set required to fulfill the changing requirements of the workforce in this fast-changing technological world

Study Scheme of BS English

All courses are three credit hours.

SEMESTER 1:

Functional English	None	Foundational	CHR
Islamic Studies / Moral Ethics	None	General Edu	3
ICT in digital Literacy	None	General Edu	3
Introduction to Literature I	None	Major	3
Introduction to Linguistics	None	Major	3
Gender in everyday life	None	General Edu	3

CAREER OPPORTUNITIES

The exit-level competencies of our BS English programme qualify our students to enter various domains in their professional lives. While knowledge, research and linguistic skills make academia, writing and journalism a few of the most lucrative areas, their leadership skills along with interdisciplinary expertise and in-depth historical and social awareness make them perfect candidates for achieving success in the CSS exams, in addition to careers in academia, and research and development work with NGOs and government institutions.

Moreover, having the opportunity to choose from a variety of minor subjects allows the students to expand their intellectual horizons in different dimensions of the contemporary globalized digital world, opening pathways to various industries like banking, and customer service.

COURSE REQUIREMENTS AND STRUCTURE

The HEC-approved curriculum will be used for the BS English Programme with relevant changes and additional General and Elective Courses as approved by the Ziauddin University Academic Council.

- The Foundation courses are mandatory for all students.
- Depending upon the results of the entrance test, the students will need to study up to two non-credit courses in years 1 and 2 to improve their English language skills. It will be mandatory for students to pass these courses.

SEMESTER 2:

Academic Reading and Writing	Functional English	Foundational	3
Pakistan Studies	None	General Edu	3
Introduction to Literature II	Introduction to Literature I	Major	3
Language, Culture, and Society	None	Minor	3
World History	None	General Edu	3
Perspective of identity in contemporary world	None	General Edu	3

SEMESTER 3:

History of English Literature I	None	Major	3
Learning and the Learner	Introduction to Linguistics	Major	3
Technical and Professional Writing	Academic Reading & Writing	Foundational	3
Introduction to Development & Social Change	None	Minor	3
Human Rights and Citizenship	None	General Edu	3
Quantitative Reasoning I	None	Foundational	3

SEMESTER 4:

History of English Literature II	History of English Literature I	Major	3
Phonetics & Phonology	Introduction to Linguistics	Major	3
Content Development	None	General Edu	3
Concepts and contemporary debates in Humanities and Social Sciences	None	Minor	3
Introduction to Psychology	None	Minor	3
Quantitative Reasoning II	Quantitative Reasoning I	Foundational	3

SEMESTER 5: (ANY 5)

World Literature in Translation/ Syntax	None	Major	3
Poetry I/ Morphology	None	Major	3
Fiction I /Sociolinguistics	None	Major	3
17th and 18th Century Prose /Discourse Analysis	None	Major	3
16th-20th Century Drama /Semantics and Pragmatics	None	Major	3
Literature and Society /Language and Gender	None	Major	3

SEMESTER 6: (ANY 5)

Poetry II/ Media Discourse Analysis	None/ Poetry I	Major	3
Fiction II/Translation Studies	None/ Fiction I	Major	3
Critical Approaches to Literature / Cognition, Metacognition and Reading	None	Major	3
Literary Movements/ Multilingualism and Translanguaging	None	Major	3
Pakistani Anglophone Literature /Language and Power	None	Elective	3
Dystopian Literature / TESOL	None	Elective	3

SEMESTER 7: (ANY 4)

Literary Theory and Criticism I */ World Englishes	None	Major	3
Introduction to 19th and 20th Century Poetry */Language in Education	None	Major	3
19th Century American Literature / Second Language Acquisition (3)	None	Major	3
Research Methodology for Literature*/ *Research Methods in Applied Linguistics (3)	None	Major	3
Shakespeare- The Play's the Thing/ *Contemporary Issues and Research in ELT	None	Major	3

SEMESTER 8: (ANY 4)

Literary Theory and Criticism II */Stylistics (3)	None	Major	3
20th Century American Literature / Genre Analysis (3)	None	Major	3
Postcolonial Literary Studies /*Research Project In Applied Linguistics (3)	None	Major	3
Feminist Literature / Computational Linguistics	None	Elective	3
Dissertation Or Literary Pedagogy & Practicum / Corpus Linguistics	None	Elective	3

BS SOCIAL CHANGE AND DEVELOPMENT

VISION

To nurture an inter-disciplinary and comprehensive understanding of the complex problems of development and social change.

MISSION

BS Social Change & Development cultivates problem and evidence-based learning approach which directs students to practically engage with the issues within our society. This programme invites students to become agents of social change and in turn strengthen their community and society by resolving global/local issues.

PROGRAMME OVERVIEW

The 4 year BS Social Change & Development (SCD) programme provides students with a wide range of career prospects both locally and internationally that contribute to social change at varied levels. The SCD programme intends to nurture an interdisciplinary and comprehensive understanding of the complex problems of development and social change. The SCD programme equips its students with a thorough theoretical understanding together with hands-on and practical training. The 4-year BS Social Change & Development programme integrates social sciences disciplines such as anthropology; economics; political science and sociology along with contemporary thematic studies such as Gender and development; community engagement for sustainability and change; and conflict and alternative dispute resolution. The ZU Social Change & Development programme represents an innovative and a dynamic approach

to some of the problems faced by our society at local levels including rural and urban settings within cities and provinces at national levels and also at regional and international levels.

CAREER OPPORTUNITIES

- Civil Services
- SME – associates
- CSR associates at banks/ Multinational firms
- Legal team associates
- Citizen journalism
- Content developers/Documentary Developers
- Social Media Influencers
- Education and Development sector
- Researchers at NGOS & INGOS
- Monitoring & Evaluation
- Teaching and lectureship
- Mediation counselor
- Social entrepreneurs

COURSE REQUIREMENTS AND STRUCTURE

The HEC approved curriculum will be used for the BS Social Change and Development programme with relevant changes and additional General and Elective Courses as approved by the Ziauddin University Academic Council.

Please note:

The Foundation courses are mandatory for all students.

Depending upon the results of the entrance test, the students will need to study up to two non-credit courses in years 1 and 2 to improve their English language skills. It will be mandatory for students to pass these courses.

Study Scheme of BS Social Change & Development

All courses are three credit hours.

SEMESTER 1

No.	Code	Course	Category
1	ENG 101	Functional English	Foundational
2	PST 101	Pakistan Studies	Foundational
3	SCD 101	Introduction to Sociology	General Education
4	ELIN 311	Literature and Society	General Education
5	GCE 102	Perspectives on Identity in the Contemporary World	General Education
6	GCC 101	Introduction to ICT & Digital Literacy	General Education

SEMESTER 2

No.	Code	Course	Category
1	ENG 102	Academic Reading and Writing	Foundational
2	IST 101	Islamic Studies/Moral Ethics	Foundational
3	GCC 106	Quantitative Reasoning I	Foundational
4	SCD 102	Introduction to Social Psychology	Foundational
5	SCD 103	Gender and Social Change	Major
6	SCD 104	Individual wellbeing and development	General Education

SEMESTER 3

No.	Code	Course	Category
1	ENG 201	Technical & Professional Writing	Foundational
2	SCD 201	Development of Social Thoughts	Major
3	SCD 205	Introduction to Social Change & Development	Major
4	SCD 207	Social Anthropology: Cultural Representations, beliefs, and Practices	Major
5	GCC 207	Quantitative Reasoning II	Foundational
6	SCD 210	Project Planning & Management	Major

SEMESTER 4

No.	Code	Course	Category
1	SCD 202	Classical Sociological Theory	Major
2	SCD 204	Social Philosophy & Critical Thinking	Major
3	SCD 206	Population Studies	Major
4	SCD 208	Economics and Development	Major
5	SCD 209	Sustainable Development- From MDGs to SDGs: Major Learning and Implications	Major
6	SCD 211	Internship project (SDGs - Project Practicum)	Major

SEMESTER 5

No.	Code	Course	Category
1	SCD 301	Social Sciences Research	Major
2	SCD 302	Social Change and Development in Pakistan	Major
3	SCD 303	Sociology of Human Rights	Major
4		Elective I	-
5		Elective II	-
		Electives I (Options)	-
	i. SCD 307 ii. SCD 308 iii. SCD 309	1. Development communication 2. International relations 3. NGO management	-
		Electives II (Options)	-
	i. SCD 310 ii. SCD 311 iii. SCD 312	1. Media as 4 th pillar of state for social change and Development 2. Visual Storytelling: Photography & documentary in advocacy 3. Introduction to Environmental Sociology	-

SEMESTER 6

No.	Code	Course	Category
1	SCD 304	Diversity, Social Justice, Equity and Development	Major
2	SCD 305	Rural & Urban Development: Issues and Perspectives	Major
3	SCD 306	Research thesis and report	Major
4		Elective III	-
5		Elective IV	-
		Electives III (Options)	-
	i. SCD 313 ii. SCD 314 iii. SCD 315	1. Introduction to Peace & Conflict Studies 2. Peace leadership in South Asia 3. Alternative dispute resolution	-
		Electives IV (Options)	-
	i. SCD 316 ii. SCD 317 iii. SCD 318	1. Social statistics 2. Results-based project management 3. Financial management	-

SEMESTER 7

No.	Code	Course	Category
1	SCD 401	Philosophy of Development & Psychology of Poverty	Elective
2	SCD 402	Poverty/Development Advocacy through performing Arts	Elective
3	SCD 403	Poverty & women empowerment	Elective
4	SCD 404	Social enterprise Incubation	Elective

SEMESTER 8

No.	Code	Course	Category
1	SCD 405	Philosophy & Psychology of Human Nature and well being	Elective
2	SCD 406	Health/Education Issues across Cultures and Ideologies	Elective
3	SCD 407	Study of social enterprises in health care/Education: Operations and Processes	Elective
4	SCD 408	Social Enterprise incubation	Elective

ELIGIBILITY CRITERIA

BS English:

Intermediate/A Levels (or equivalent) with a minimum of 50% (or equivalent) marks in the last exam.

BS in Social Change & Development:

Minimum A-Levels 3 passes/ 45% marks in Intermediate or equivalent from a recognized institution.

Nature / Duration

- BS Programmes are 4-year undergraduate programmes.

ACADEMIC CALENDAR FOR THE YEAR 2023-24

Fall 2023

Commencement of Regular Classes	Mon, Sep 11, 2023
Classes End	Sun, Dec 24, 2023
Final Exams Begin	Mon, Jan 01, 2024
Final Exams End	Sun, Jan 07, 2024

Spring 2024

Commencement of Regular Classes	Mon, Jan 22, 2024
Classes End	Sun, May 12, 2024
Final Exams Begin	Mon, May 20, 2024
Final Exams End	Sun, May 26, 2024

Summer 2024

Commencement of Regular Classes	Mon, Jun 24, 2024
Classes End	Sun, Aug 11, 2024
Final Exams Begin	Mon, Aug 12, 2024
Final Exams End	Wed, Aug 15, 2024

CONTACT INFORMATION

Address
Ground Floor, BC-05, H.A Arcade, Block-1, Clifton, Karachi.

Phone
021-35305790

Email
zeeshan.baig@zu.edu.pk

FACULTY MEMBERS

Dr. Shehla Najib Sidiki

Dean, Faculty of Liberal Arts & Human Sciences
Associate Professor
Ph.D. Management, SZABIST

Ms Hina Khan

Academic Coordinator
M.S in linguistics
M.A ELT
MBA HR & Finance

Mr. Zahid Yaseen

Lecturer
MA in Literature, Karachi University

Ms. Fasiha Irfan

Lecturer
MA in Literature, Karachi University



COLLEGE OF EDUCATION

KEY INFORMATION

PRINCIPAL

Ms. Rana Hussain

CONTACT INFORMATION

Website:

<https://coe.zu.edu.pk>

Telephone:


(9221)36830303

Email:

info@zu.edu.pk

Locate Us:

D-65, Block-H, North Nazimabad,
Karachi



I am certain that studying at Ziauddin University – College of Education was not only the best time span of my life but a great choice as well to pursue my professional qualification. CoE seemed like a fairy-tale place where diversity and academic excellence were in perfect harmony. It had not only offered me opportunities to grow as a person but in my profession as well. The institution sets challenges far beyond those of any other B.Ed. Colleges. More importantly, they challenge you to be independent, which for me, really made professional growth much smoother. From Principal to Faculty, everyone on campus is quite supportive and always tries to make learning possible in an interactive and interesting manner. Thus, making an individual fond of being part of classroom discussions. I am proud to be known as a 'Ziauddinian' from CoE.

ARSALAN IQBAL
B.ED. (HONS)

The College of Education is part of the Faculty of Liberal Arts and Human Sciences (FLAHS). The Principal in consultation with the Dean (FLAHS) makes all independent decisions pertaining to the academics, budget, staffing, and other administrative matters. The College of Education has a Board of Studies, chaired by the Principal and comprising both internal and external members. All COE programs, after approval by the Board of Studies, are presented to the Academic Council of Ziauddin University for endorsement.

VISION

To harness and maximize human potential and capabilities in the field of education that can contribute to the development and betterment of society and the nation as a whole.

MISSION

The mission of the Ziauddin College of Education is two-fold:

- To excel in enhancing the scholarship of teaching and learning, thereby setting a national standard of academic excellence in education.
- To provide leadership in service and outreach initiatives by actively engaging schools to foster communities of practice for teachers and bolster school development programmes.

PROGRAMMES/COURSES

College of Education offers the following two 4-year undergraduate programmes:

- Bachelor in (Education) Degree Programme
- Associate Degree in Education.
- BS Education and Psychology Programme 4 Year

BACHELOR IN EDUCATION DEGREE PROGRAMME

VISION

To harness and maximize the human potential and capabilities by achieving recognition for the outstanding academic performance in teacher education, educational research, and professional and educational development services.

MISSION

The Ziauddin College of Education is committed to providing educational solutions for academic challenges by improving teaching and learning and providing leadership in service and outreach, through engaging schools to organize communities of practice for teachers and strengthen school development programmes.

PROGRAMME OVERVIEW

The programme will prepare you to be a scholar or college lecturer post-MS. Education. Whereas B.Ed. (Hons) will prepare you for taking action and education as a catalyst for change. B.Ed. is practical learning that prepares graduates as practitioners in different walks of education teaching leading designing curriculum writing textbooks and building capacities of children as well as adults.

FUNCTIONAL ENGLISH - I

After completing this course, Student Teachers will:

- have improved their listening and reading skills in English
- be able to communicate in written and oral English with peers and teachers
- rely less on their first languages and increase their use of English in formal and informal situations
- have a deeper understanding of correct English structures in descriptive, narrative, and instructional texts.

METHODS OF TEACHING

This course is an introduction to teaching methods used in primary schools. Because you have been a primary school student, you will recognize some of these methods. However, you know them from a student's perspective rather than from a teacher's perspective. Teaching methods are often divided into two broad

categories: teacher-centered methods (also called direct instruction) and learner-centered methods (also called indirect instruction or inquiry-based learning). An effective teacher knows several methods, some teacher-directed and others learner-directed. From among these methods, a teacher selects the one method or combination of methods most likely to achieve a particular lesson's objectives with a particular group of students.

SCIENCE - I

This course will refresh and strengthen Student Teachers' subject-matter knowledge. It lays a foundation for the pedagogical content knowledge also required to effectively teach general science in primary school. The course covers core concepts in physical science, life science, and earth science. Also covered are the teaching strategies and instructional approaches that best support the development of conceptual understanding of science.

CHILD DEVELOPMENT

The primary focus of this course is learning about children in order to become an effective teacher. It provides Student Teachers with an overview of child development and growth as a holistic process. The latest research and thinking about the conditions that affect children's learning and development will be addressed across developmental domains and stages of development. Development of language and cognition as well as the emotional, social, and physical characteristics of children will be explored. Student Teachers will form their own child development theories. Implications of child development theory for schools, teachers, and society will be considered. Student Teachers will be provided with real experiences to study and observe children at different levels of development. They will have an opportunity to enhance their understanding of how people learn, individual differences and learning styles, and how theories of learning and development relate to classroom learning and teaching. The course will enable Student Teachers to create learning environments that suit the needs of an individual child as well as children in general.



CLASSROOM MANAGEMENT

One of the foremost reasons cited for teacher burnout is the challenge of classroom management. This comes as little surprise as classrooms are crowded, busy places in which students of diverse backgrounds and learning styles must be organized, directed, and actively involved in learning. Many events need to occur simultaneously, and the course of these events is often unpredictable. Teachers must react often and immediately to evolving problems and needs. Teaching in such settings requires a highly developed ability to manage people, space, time, and activity. In this course, prospective teachers will be encouraged to explore their own beliefs about teaching and learning to arrive at a philosophy of classroom management that places learning as an ultimate goal. Prospective teachers will be given the chance to explore curricular concerns of what to teach and how to teach it and to view lesson planning as the consequence of these decisions. They will also study research and best practices on differentiation of instruction, classroom structures, routines, procedures, and community building.

COMPUTER LITERACY

This course will prepare teachers to understand, use, and apply technologies (computers, digital cameras, mobile phones) in effective, efficient, and ethical ways. Advanced technologies are more pervasive today than they have ever been, and their uses are expanding continually. Information and Communications Technology (ICT) is significantly enhancing and altering human activity and enabling us to live, work, and think in ways that most of us never thought possible. Prospective teachers will actively explore the fundamental concepts, knowledge, skills, and attitudes for applying technology in educational settings. They will also learn to develop skills like collaboration, higher-order thinking, problem-solving, and self-direction through the effective use of technology tools and resources, thus enabling them to be lifelong learners in the twenty-first century.

ENGLISH - II

This is the second English course for Student Teachers in ADE/B.Ed. (Hons) programmes. It aims to develop skills for effective communica-

tion and presentation using clear and appropriate English. The course comprises five units that focus on developing effective communication strategies, making oral presentations, understanding intonation patterns and their role in determining the meaning of a message or text, and how to present information in speech and writing. The first five weeks are devoted to developing the Student Teachers' language confidence and interpersonal skills. This is followed by task-based projects that incorporate all four language skills in order to develop the Student Teachers' proficiency in the English language.

MATHEMATICS I: GENERAL MATHEMATICS

This course is designed to prepare Student Teachers for teaching mathematics in elementary grades. It provides opportunities for Student Teachers to strengthen their mathematical knowledge and skills and to gain confidence in their understanding of mathematics. An important outcome of this course is for Student Teachers to be able to teach mathematics successfully in the primary, elementary, and middle grades. Research-based knowledge about good maths instruction provides a solid base of information for educators to use as they identify mathematics skills that Student Teachers need to develop, as well as teaching strategies and instructional approaches that best support the development of these skills. The course design is based on what research tells us about good maths instruction.

MATHEMATICS II: GENERAL MATHEMATICS

This course will equip Student Teachers with the knowledge and skills to teach maths in elementary grades. They will become familiar with the mathematics content in Pakistan's National Curriculum and expected student learning outcomes. Student Teachers will learn to use a variety of instructional methods that promote active learning of maths, including making and using teaching and learning materials. They will plan mathematics lessons and activities, and engage in practice teaching of maths.

PAKISTAN STUDIES

By the end of this course, Student Teachers will be able to:

- create awareness among children about Pakistan as an enlightened nation by comparing it with the rationale and endeavors for Pakistan's creation
- educate children about the key concepts in disciplines comprising Pakistan Studies, including history, geography, economics, and political science
- assist children in identifying various perspectives on current, persistent, and controversial issues in Pakistan; identify their own position on these issues, and be able to support them
- instill in Student Teachers a sense of patriotism, tolerance, active citizenship, and respect for cultural diversity and religious harmony
- design and implement a project to promote active and responsible citizenship and help children and young people do the same.

ART, CRAFTS, AND CALLIGRAPHY

The Art, Crafts, and Calligraphy course will help prepare Student Teachers to teach these subjects in the elementary grades. It provides Student Teachers with an opportunity to develop their knowledge and understanding of art, crafts, and calligraphy (with a focus on Pakistani artists, calligraphers, and craftsmen and women) and to practice making their own works using a variety of techniques. Given that this is a teacher education course, Student Teachers also examine the role of art in child development; the importance of art, craft, and calligraphy in the curriculum; and the links between art, crafts, and calligraphy and other subjects such as science, math, and social studies. Student Teachers will have learned about lesson planning, classroom assessment, and classroom management in other courses; in this course, they will focus on these three skills as they apply to teaching and learning art, crafts, and calligraphy in the elementary grades.

INFORMATION AND COMMUNICATION TECHNOLOGIES IN EDUCATION

The focus of this course is to provide you with the knowledge and skills regarding how ICTs can be used to engage students in the learning process, improve understanding of content as well as instructional and assessment practices, and enhance communication and collaboration in the classroom. By 'student', we mean here children in primary or lower secondary grades. To attain this end, Student Teachers will design and create instructional units in

which technology plays a central role and implement these units with students. The course also examines other non-computer technologies and looks at current technology trends.

SCIENCE - II

This course will strengthen prospective Student Teachers' subject-matter knowledge. It provides further opportunities to deepen the pedagogical science content knowledge required to effectively teach general science in elementary school. The course covers core concepts in physical science, life science, and earth science. It also covers teaching strategies and instructional approaches that best support the development of a conceptual understanding of science. In contrast to Science I, which dealt with simpler concepts, Science II establishes connections between core concepts, such as matter and energy, and entire systems, such as Earth's systems or systems within the human body.

TEACHING LITERACY

The purpose of this course is to help Student Teachers understand the theory and practice of teaching early reading and writing. Reading and writing are seen as related, integrated meaning-making processes that are reciprocal with the oral language processes of listening and speaking. Like oral language, reading and writing develop over time through a child's active interaction with print and the environment and with support and facilitation by the teacher. Adopting effective strategies that foster success and a love of reading is key to supporting all children as they become readers and writers.

CLASSROOM ASSESSMENT

Classroom assessment, a set of educational practices taught in this course, enables a teacher to make instructional decisions with and for students based on information obtained from frequent evaluations of learning. There are many definitions of classroom assessment. Here is one: Tests have a role in the evaluation of learning in school. However, there are notable differences between a test and an assessment. Any given test is a one-time event. Classroom assessment is a continuous process. Some tests, called external tests, are created by people who do not know the students who will take the test. In contrast,

assessments are planned and conducted by teachers with their own students. Tests are part of the assessment process, but they are only one of many assessment tools. Assessment is a broad concept. A teacher conducting an assessment collects information about learning from several perspectives and uses more than one assessment tool.

SCHOOL, COMMUNITY, AND TEACHER

The purpose of this course is to provide Student Teachers with a strong foundation for understanding the relationship between and among teachers, the school, and the families and community that support the school. Basic conceptualizations of educational institutions and the role of the teacher in relating to these institutions will be considered. Student Teachers will also explore how cultural, social, and historical forces have shaped their understanding of the relationship teachers have with schools, communities, and families in Pakistan. The course will explore the social context of schooling and examine how the work of teachers is nested within schools and communities. It will provide orientation to the process of socialization in schools and how social factors affect education.

TEACHING ENGLISH

This three-credit course has been designed to enable Student Teachers to teach English using an interactive, communicative approach to children aged 6 to 13. It will be taught over 16 weeks with three face-to-face sessions per week, making a total of 48 sessions. The course aims to be comprehensive in its coverage and depth so that, upon its completion, Student Teachers will have gained both a theoretical understanding of the basic principles of second-language acquisition and the practical knowledge of how to apply these principles effectively in the language classroom. The course focuses on ways to teach young learners the four language skills—listening, reading, speaking, and writing—to enable them to reach a basic level of communicative competence in both spoken and written English. In addition to learning how to teach and integrate the four skills in an interactive, learner-centered manner, Student Teachers will gain an understanding of how grammar lessons and vocabulary acquisition can be incorporated

into a communicative teaching approach.

TEACHING SOCIAL STUDIES

This course will help you, as a Student Teacher, to reflect on the purpose of teaching social studies and to shape your approach to teaching the subject. It will prepare you to teach the knowledge, skills, values, and attitudes essential for democratic citizenship. As a social studies teacher, you will have the opportunity to encourage informed and responsible civic action. Social studies teachers have an added responsibility to help children understand their world. Moreover, your task becomes more challenging given the dynamic nature of society and the subject matter, the nature and needs of learners, and the wide variety of learning contexts in Pakistan.

CURRICULUM DEVELOPMENT

Curriculum development is intended to orient Student Teachers to the principles, processes, and procedures of curriculum design and development. Student Teachers will be informed about the objectives, selection of content, its scope and outcomes, teaching strategies, and design of instructional materials. This course will also include various factors that affect the process of curriculum development and implementation. Student Teachers will learn about traditional and progressive notions of curriculum monitoring, assessment, and evaluation as well as how these notions influence curriculum improvement efforts. This course gives Student Teachers the opportunity to develop an in-depth understanding of the central idea of the curriculum. Furthermore, it will enable Student Teachers to plan and develop curricula to meet the needs of their students.

EDUCATIONAL PSYCHOLOGY

This course is an introduction to educational psychology that covers the basic concepts, theories, and principles of human development, learning, motivation, individual differences, intelligence, and assessment. Additionally, it relates how these concepts are applied to classroom teaching. In an educational setting, it is essential for teachers to know about human development and how students learn. Students learn according to their own pace and ability, so concepts about individual differences and different types of learners are also covered.

FOUNDATIONS OF EDUCATION

The purpose of this course is to help Student Teachers recognize the worth of the foundations of education, and examine their role and significance in the whole process of education in Pakistan. Student Teachers will develop a comprehensive understanding of the terms foundations and education in light of the various ideological, philosophical, psychological, sociological, and historical perspectives that have influenced education. Foundations are essentially basic ways of thinking about schooling and the formal processes of education. The course will inform them about the influence of social forces, such as politics, social structure, culture, history, and economics, on the selection of content, the methods of teaching, and the aims of education. Student Teachers will examine the classical and contemporary philosophical perspectives on education, the significance of societal culture and its social structure in education, and how education in return strengthens both, as well as the significance of psychology in the teaching-learning process.

COMPARATIVE EDUCATION

The Comparative Education course is divided into five units. The course provides an overview of methods, major concepts, and current trends in the field. Notions of comparative education will be introduced in Unit 1, focusing on purposes, methods, and approaches. Further, the scope of comparative education will be discussed, together with the determinants of a national education system, in Unit 2. The remaining units cover topics such as a comparative view of education in Pakistan and comparative education in selected developing as well as developed countries. The course will enable Student Teachers to identify the strengths and limitations of various education systems through international comparative research.

CONTEMPORARY ISSUES AND TRENDS IN EDUCATION

The Contemporary Issues and Trends in Education course will assist Student Teachers in appreciating the strengths, challenges, innovations, and reforms in education at both national and international levels. They will be empowered not only to adopt viable strate-

gies and approaches in their professional practice but also to implement prescribed educational policies and programmes. There are many issues in education; some are general and are found across the globe, while others are specific to Pakistan. Contemporary issues such as health, housing, gender disparity, poverty, pressure groups, family, and community values affect education at local, national, and international levels. Education also plays a role in addressing these issues. This course focuses on the following issues and trends: globalization; the Millennium Development Goals (MDGs), Education for All (EFA), and national goals; diversity; the role of peace education at the micro- and macrolevels; the role of schools in today's society; and the changing roles of teachers.

INTRODUCTION TO GUIDANCE AND COUNSELLING

This course has been designed to introduce the concept, scope, and theories that govern the process of guidance and counseling in education. It will enable Student Teachers to identify areas of guidance and counseling at the elementary level. Through the knowledge and skills acquired from this course, they will be well-equipped to explore the talents and potential of their students, while preparing them for life in the 21st century. The course will include both theoretical knowledges of guidance and counseling and the development of Student Teachers' counseling skills. It will strengthen their ability to exercise active listening skills, reflect on students' problems, and help them choose potential solutions to their problems. The course will also enable Student Teachers to design school-wide guidance and counseling programmes.

MATHEMATICS - III (TEACHING MATHEMATICS PEDAGOGY OPTION)

Mathematics is the mother of all subjects. It appears in all walks of life; even a mason has to calculate the area of the building when claiming his wages. But teachers' existing beliefs about and perceptions of teaching mathematics in our context are not promising. We are more focused on the transmission of knowledge by engaging students in memorizing mathematical rules and formulae, rather than on engaging them in constructing mathematical knowledge and under-

standing mathematical concepts. Mathematics learning can inculcate problem-solving, logical thinking, and reasoning skills in students only when they are taught in such a way that they learn conceptually instead of by drill and practice. In previous semesters, we have focused on mathematics content, but this course intends to extend Student Teachers' understanding of pedagogy as well as build their understanding of the nature of mathematics, teacher beliefs and perceptions, and mathematics teaching and learning. This will enable Student Teachers to develop students' problem-solving, logical thinking, and reasoning skills. This course will help in creating awareness of the history of mathematics as well as its scope and significance.

RESEARCH METHODS IN EDUCATION

The course Research Methods in Education is designed to orient Student Teachers to the concept and methods of education research. In particular, the course focuses on action research, and it aims to equip Student Teachers with the necessary skills to plan and conduct action research in an educational setting. Action research is a form of research that can be used to improve professional practices in the classroom. It can help in both personal development and institutional improvement. This course will also help Student Teachers to write research proposals and research reports and to create presentations to discuss their work.

SCIENCE - III (TEACHING SCIENCE PEDAGOGY OPTION)

Science education needs reform in the philosophical, instructional, and pedagogical dimensions of current practice. Particularly, instructional settings and strategies used by teachers can create an environment that fosters a constructive and active view of the learning process. Learning does not occur by passive absorption of scientific facts; rather, it involves learners in constructing their own meaning and assimilating new information to develop new understandings. In Science III, the overall thrust of the course is on the development of scientific knowledge, skills, and attitudes in Student Teachers in the areas of life science, physical science, and Earth and space science. Therefore, this course empha-

sizes developing inquiry, problem-solving, and decision-making abilities in Student Teachers so they may maintain a sense of wonder and curiosity about the world around them.

TEACHING ENGLISH - II (TEACHING ENGLISH PEDAGOGY OPTION)

This three-credit hour course has been designed to develop pedagogical skills in Student Teachers for teaching and assessing the English language to students in elementary grades. The course spans 16 weeks. The basic aim of the course is to enable Student Teachers to master the pedagogies related to teaching and assessment in the English language. Student Teachers will also be able to integrate the practical activities meant for the development of the four skills with the pedagogies. They will also gain practical experience in the teaching of grammatical as well as lexical aspects of the English language. Student-centered and communicative approaches will be followed. The course will include a research-based project related to teaching learning problems in English as a Second Language (ESL) classrooms and their potential solutions. At the end of the course, Student Teachers will have a good understanding of practical classroom problems in the teaching of English and their solutions. This course aims to enable Student Teachers to put their knowledge of different English language teaching approaches learned in the previous course into practice most suitably according to their own specific needs.

TEACHING SOCIAL STUDIES - II (TEACHING SOCIAL STUDIES PEDAGOGY OPTION)

Social studies is concerned with human beings and their relation to society, and a social studies curriculum should address the totality of human experience over time and space. It is connected with the past, is linked to the present, and looks ahead to the future. This is a combination of history, geography, sociology, basic science, economics, anthropology, archaeology, and psychology. However, this course will mainly focus on the teaching of history and geography. The purpose of this course will be to integrate the elements and concepts of history and geography, such as change, continuity, and chronology.

RESEARCH PROJECT

The Research Projects in Education course is a practical course in which Student Teachers will be involved in the action research process. The course will enable them to plan, act, observe, and reflect during action research. As the action research process entails an ongoing analysis of data, Student Teachers will be engaged in the same process for their individual projects and will receive guidance from their supervisors. Student Teachers will disseminate their findings in the form of reports.

SCHOOL MANAGEMENT

School today is experiencing a paradigm shift in conceptions and operations related to school management. Systems thinking has become the major paradigm for school improvement efforts. Traditional analytical thinking focuses on isolating smaller and smaller parts of a system for study. Systems thinking, on the other hand, focuses on interactions between the different components of a system and aims to consider the system as a whole rather than as separate components within a whole. Thus, in a school system, each part or individual is a necessary component for the system's optimal function. The main goal of this course is to develop the capacity of Student Teachers to understand school as a system and to view school management through a systems approach. This will enable them to identify and examine their role in the school system and its significance in improving the learning outcomes of students. The course will also help Student Teachers to unearth, examine, and consider alternatives to the norms that shape status quo teaching if they are to become innovative and thoughtful professionals.

TEST DEVELOPMENT AND EVALUATION

The Test Development and Evaluation course will focus on knowledge, understanding, and skills in the development of valid, reliable, and adequate tests and evaluation procedures as a means to improve learning. Major topics covered include theories of test development, characteristics of a good test, steps in test construction, alternative assessment strategies, and evaluation and accountability based on value addition. Assessment methods include written tests, assignments, presentations, observation, peer assessment and self-assessment, and portfolios. At the end of the course,

Student Teachers will be able to plan, organize, develop, administer, and score tests, report student performance, and utilize results to improve student learning.

EARLY CHILDHOOD CARE AND EDUCATION

Educational research suggests that early experiences of a child has a profound effect on attainment at later stages in life. Therefore, it is important to invest in children's education to provide positive and enabling experiences right from an early age. Quality early childhood programmes not only help in brain development but also contribute to the physical, emotional and social development of a child.

THE DEVELOPMENTAL PRACTICUM

Every practicum experience is guided by three participants: (1) the Student Teacher, (2) the Cooperating Teacher, and (3) the College/University Supervisor. What happens in the classroom and how it is interpreted will depend on the views of each member of the triad. It is important to negotiate common expectations for roles and responsibilities. If expectations are clear and understood by each member, the experience is more likely to be satisfactory for all. Student Teachers should take ownership of their own learning and at the same time receive consistent feedback and daily mentoring from their Cooperating Teachers at the school. While the Cooperating Teachers' role is primarily mentoring, they are also required to provide the Student Teachers with formative and summative feedback.

PRACTICUM I & II

Student Teachers will be able to:

- reflect on and learn from connecting theory and their teaching practice
- collaborate with peers, Cooperating Teachers, other school staff, and the College/University Supervisor, establishing professional relationships
- invite, accept, and utilize formative feedback from the Cooperating Teaching, peers, and the College/University Supervisor in a non-defensive manner
- produce plans for teaching and learning that reflect the use of appropriate instructional methods and strategies to meet the needs of all students within the context of the practicum classroom

- utilize appropriate instruments or techniques for informally and formally assessing children's learning and children's learning needs
- recognize cognitive and affective needs of children, and establish learning Environments and use activities appropriate to meeting those needs.

LONG PRACTICUM

This course is a practical teaching, reflecting and re-thinking course on the role of the teacher, teaching practice based on reflective practices. The students teach this course along with the fieldwork of the research project most of the work that student teachers carry out feedback into the research project

TEACHING OF ISLAMIYAT

This course aims to enable candidates to:

1. Understand the nature and characteristics of Islamic Studies.
2. Design and use modern means and techniques in the implementation of the lessons in Islamic Studies.
3. Create effective assessment tools in Islamic education.
4. Acquire moral values and positive trends for the teaching profession. Observe and evaluate teaching practice in Islamic Studies

ASSOCIATE DEGREE

Students have the option to exit the programme with an associate degree after completing 2 years (4 semesters).

CAREER PROSPECTS

B.Ed. although teaching school children is the main focus but the interdisciplinary approach of the programme prepares graduates to see education holistically and prepare them to serve in any leadership role in education.

The graduates can avail following Career Opportunities

- Subject teachers /Professional Development Teachers
- Textbook Developers
- Test Items Designers
- Researchers

They can get jobs in many other related fields too like, publishing houses, education consultancies, career consultancies, study abroad agencies, newspapers, education department, and educational websites.

DEGREE STRUCTURE

The degree is subdivided into the following course categories: General Education, Foundation, Major, and Minor/Elective.

Study Scheme of

All courses are three credit hours.

Sem-ester	HEC Category	Course Title	Credit Hours	Content Category	Course Code
1	Content	General Science	3	[GEN] General	GEN 101
1	Compulsory	English – I [Functional]	3	[HUM] Humanities	HUM 101
1	Content	Urdu/**Regional Languages	3	[HUM] Humanities	HUM 102
1	Compulsory	Islamic Studies/** Ethics	2	[HUM] Humanities	HUM 121
1	Foundation	Child Development	3	[SCL] Social Science	SCL 101
1	Foundation	General Methods of Teaching	3	[PDG] Pedagogy	PDG 141
2	Compulsory	General Mathematics	3	[GEN] General	GEN 102
2	Compulsory	Computer Literacy	2	[GEN] General	GEN 111
2	Communication	English – II	3	[HUM] Humanities	HUM 103
2	Compulsory	Pakistan Studies	2	[HUM] Humanities	HUM 122
2	Foundation	Classroom Management	3	[PDG] Pedagogy	PDG 101
2	Professional	Teaching Islamic Studies (Methods of)	3	[PDG] Pedagogy	PDG 142

3	Professional	Information and Communication Technology	3	[GEN] General	GEN 212
3	Content	Art, Crafts and Calligraphy	3	[GEN] General	GEN 221
3	Professional	Teaching Literacy Skills	3	[PDG] Pedagogy	PDG 243
3	Professional	The teaching of General Science	3	[PDG] Pedagogy	PDG 244
3	Professional	Teaching of Urdu/ ** Regional Languages	3	[PDG] Pedagogy	PDG 245
3	Short Term	Teaching Practice	3	[PDG] Pedagogy	PDG 246
4	Foundation	School, Community and Teacher	3	[SCL] Social Science	SCL 202
4	Foundation	Classroom Assessment	3	[PDG] Pedagogy	PDG 202
4	Professional	Teaching of English	3	[PDG] Pedagogy	PDG 247
4	Professional	Teaching of Mathematics	3	[PDG] Pedagogy	PDG 248
4	Professional	Teaching of Social Studies	3	[PDG] Pedagogy	PDG 249
4	Practice	Teaching Practice	3	[PDG] Pedagogy	PDG 250
5	Compulsory	English – III	3	[HUM] Humanities	HUM 304
5	Foundation	Educational Psychology	3	[SCL] Social Science	SCL 303
5	Foundation	Curriculum Development	3	[PDG] Pedagogy	PDG 303
5	Foundation	Foundations of Education	3	[PDG] Pedagogy	PDG 321
5	Discipline Specific	Content Course – I	3	[ELC] Elective	ELC 301
5	Discipline Specific	Content Course – I	3	[ELC] Elective	ELC 302
6	Professional	Comparative Education	3	[PDG] Pedagogy	PDG 304
6	Professional	Introduction to Guidance and Counseling	3	[PDG] Pedagogy	PDG 305
6	Professional	Contemporary Issues and Trends in Education	3	[PDG] Pedagogy	PDG 322
6	Discipline Specific	Content Course – II	3	[ELC] Elective	ELC 303
6	Discipline Specific	Content Course – II	3	[ELC] Elective	ELC 304
7	Professional	Research Methods in Education	3	[PDG] Pedagogy	PDG 423
7	Teaching	Pedagogy – I	3	[PDG] Pedagogy	PDG 424
7	Teaching	Pedagogy – II	3	[PDG] Pedagogy	PDG 425
7	Short Term	Teaching Practice	3	[PDG] Pedagogy	PDG 451
7	Discipline Specific	Content Course – III	3	[ELC] Elective	ELC 405
7	Discipline Specific	Content Course – III	3	[ELC] Elective	ELC 406
8	Professional	Research Project	3	[GEN] General	GEN 431
8	Professional	School Management	3	[PDG] Pedagogy	PDG 406
8	Professional	Test Development and Evaluation	3	[PDG] Pedagogy	PDG 407
8	Long Term	Teaching Practice	6	[PDG] Pedagogy	PDG 452

BS EDUCATION AND PSYCHOLOGY PROGRAMME 4 YEARS

VISION

To produce skilled professionals with exceptional understanding of human behavior in education by applying psychological principles which will help them address challenges and elevate teaching practices.

MISSION

Education and Psychology programme aims to equip students with the knowledge, skills, and theoretical foundations needed to understand learning processes and address educational challenges. We foster critical thinking, problem-solving skills, and a scientific mindset, empowering students to contribute significantly to the field of Education and Psychology.

PROGRAMME OVERVIEW

The primary aim of the Education and Psychology programme at Ziauddin University is to facilitate the development of concepts, principles, and modern methods, and the important theoretical foundations necessary to understand the process of learning with a view to identify and analyze educational problems and suggest relevant solutions. To accomplish this, the programme has two main aims:

To prepare professionals who are competent in the science that studies human behavior in educational situations during the learning

process. This includes the study of the psychological requirements of the educational process, understanding the mechanisms of the learning process, motivations of behavior, mental processes, educational guidance, individual differences in schools and schooling, understanding and appreciating individual and cultural diversity, etc.

To prepare professionals in charge of education to be able to apply the educational and psychological principles in practical ways in educational and classroom situations to resolve educational problems using research and evaluation processes, thus achieving an effective learning environment.

POST PROGRAMME PROSPECTS

- Education Psychologist
- School Counsellor for Schools & Colleges
- Curriculum Developer (identifying students' learning needs and designing courses/curricula accordingly)
- Policy Advisor

PROGRAMME STRUCTURE

The HEC revised curriculum of Psychology 2013 and the Undergraduate Policy of 2020 (under discussion) has guided the programme structure. The configuration of courses and credits is shared below.

Study Scheme of

BS Education and Psychology a 4-year degree programme that consists of 132 credit hours.

Sr.	Categories	No. of courses	Credit Hours
1.	Compulsory Requirement (No Choice)	8	24
2.	General Courses to be chosen from other departments	8	24
3.	Discipline Specific Foundation Courses	11	33
4.	Major Courses including research project / Practicum	13	39
5.	Electives within the majors	4	12
	Total	44	132

Courses

.	Discipline Specific Foundation Courses	Credit Hours	S.No.	Major Courses including research project / Practicum	Credit Hours
1.	Introduction to Psychology	3	1.	Ethical Issues of Psychology	3
2.	Foundations of Education	3	2.	General Methods of Teaching	3
3.	History & Schools of Psychology	3	3.	Comparative Education	3
4.	Curriculum Development	3	4.	Analysis & Treatment of Developmental Disabilities	3
5.	Educational Psychology	3	5.	Practicum I	3
6.	Classroom Assessment	3	6.	Child Assessment & Psychometric	3
7.	Psychology of Cognition & Perception	3	7.	Reflective Practices	3
8.	Personality Theories	3	8.	Classroom Management	3
9.	School Management	3	9.	Practicum II	3
10.	Introduction to Social Psychology	3	10.	Studies of Childhood & Child Psychopathology	3
11.	Human Development & Psychology	3	11.	Advanced Practicum	3
			12.	Research Methods	3
			13.	Research Project	3
	Total Credit Hours	33		Total Credit Hours	39

Compulsory Courses

S.No.	Course Title	Credit Hours
1.	Pakistan Studies	3
2.	Islamiat/Ethics	3
3.	Urdu	3
4.	Information Communication Technology	3
5.	Functional English	3
6.	Communication Skills	3
7.	Technical Writing & Presentation Skills	3
8.	Mathematics and Statistics	3
	Total Credit Hours	24

General Courses from other departments

S.No.	Course Title	Credit Hours
1.	Communication Studies	3
2.	Design Thinking	3
3.	Digital Journalism	3
4.	Entrepreneurship	3
5.	Language, Culture and Identity	3
6.	Language and Education	3
7.	Planning and managing language learning and teaching in under-resourced and large classes	3
8.	Teaching Young Learners	3
	Total Credit Hours	24

Elective Courses (2 from each discipline Total4)

Suggested Electives

Psychology

S#	Courses	Credits	Courses	Credits
	Introduction to Rehabilitation	3	Sustainable Development Goals	3
	Health Psychology	3	Early Childhood Care and Education	3
	Positive Psychology	3	Education Leadership and Management	3
	Crisis Intervention /Disaster & Trauma Management	3	Role of Media in Education and Society	3
	Theories of Guidance and Counseling	3	Introduction to Education Policy and Planning	3
	Organizational Behavior	3	Environmental Studies	3

ELIGIBILITY CRITERIA

For admission in the BS Education Psychology programme, the candidate must have completed O-Levels (minimum 8 subjects including 5 compulsory subjects; English, Urdu, Math's, Islamiat & Pakistan Studies) and A-levels (minimum 3 Subjects)/ 12th Grade/ Intermediate with minimum second division or equivalent from a recognized institution.

PRE-REQUISITES

- Education-based electives, can be taken after the students have attained 39 credits from the Education Major courses.
- Psychology-based electives, can be taken after the students have attained 39 credits from the Psychology Major courses.

Semester-wise Breakup

DS= Discipline Specific
Comp= Compulsory
Maj= Major
Gen= General

S.No.	Courses	Credit Hours
Semester 1		
1.	Foundations of Education (DS)	3
2.	Introduction to Psychology (DS)	3
3.	Functional English (Comp)	3
4.	Islamiat/Religious Education (Comp)	3
5.	Pakistan Studies (Comp)	3
6.	Information Communication and Technology (Comp)	3
Total		18
Semester 2		
1.	Islamiat/ Religious Education (Comp)	3
2.	General Methods of Teaching (Maj)	3
3.	Introduction to Social Psychology (DS)	3
4.	Urdu (Comp)	3
5.	Human Development and Psychology (DS)	3
6.	Classroom Management (Maj)	3
Total		18

Semester 3		
1.	Communication Skills (Comp)	3
2.	History of School and Psychology (DS)	3
3.	Analysis & Treatment of Developmental Disabilities (Major)	3
4.	School Management (DS)	3
5.	Comparative Education (Maj)	3
6.	Educational Psychology (DS)	3
Total		18
Semester 4		
1.	Basic Mathematics and Statistics (Com)	3
2.	Technical Writing and Presentation Skills (Com)	3
3.	Personality Theories (DS)	3
4.	Classroom Assessment (Maj)	3
5.	Practicum I (Developmental) (Maj)	3
6.	Studies of Childhood & Child Psychopathology (Maj)	3
Total		18
Semester 5		
1.	Communication Studies (Gen)	3
2.	Language and Education (Gen)	3
3.	Ethical Issues of Psychology (Major)	3
4.	Psychology of Cognition & Perception (DS)	3
5.	Child Assessment and Psychometric (Major)	3
6.	Elective I	3
Semester 6		
1.	Practicum II (Intervention) (Major)	3
2.	Design Thinking (Gen)	3
3.	Language Culture and Identity (Gen)	3
4.	Elective II	3
5.	Elective III	3
Total		15
Semester 7		
1.	Elective IV	3
2.	Introduction to Research Methods (Major)	3
3.	Entrepreneurship (Gen)	3
4.	Teaching Young Learners (Gen)	3
5.	Planning and managing language learning and teaching in under-resourced and large classes (Gen)	3
Grand Total		15
Semester 8		
1.	Research project (Major)	6
2.	Advanced Practicum (Major)	3
3.	Digital Journalism (Gen)	3
4.	Reflective Practices (Major)	3
Total		15
Grand Total		132

ELIGIBILITY CRITERIA

- Based on 45 % pass marks in the entry requirement certificate/degree.
- Entry Test in English and Logical Reasoning with 60 %
- A scenario-based interview with 40%.
- Pass marks in the Ziauddin Admission test are 60%.

FEE STRUCTURE

To be approved

PROGRAMME DURATION

A four-year undergraduate programme comprising of 132 credit hours and 45 courses. These courses can be completed with a minimum duration of 4 years and a maximum duration of 6 years.

ACADEMIC CALENDAR FOR THE YEAR 2023-24

Fall 2023

Commencement of Regular Classes	Mon, Sep 11, 2023
Classes End	Sun, Dec 24, 2023
Final Exams Begin	Mon, Jan 01, 2024
Final Exams End	Sun, Jan 07, 2024

Spring 2024

Commencement of Regular Classes	Mon, Jan 22, 2024
Classes End	Sun, May 12, 2024
Final Exams Begin	Mon, May 20, 2024
Final Exams End	Sun, May 26, 2024

Summer 2024

Commencement of Regular Classes	Mon, Jun 24, 2024
Classes End	Sun, Aug 11, 2024
Final Exams Begin	Mon, Aug 12, 2024
Final Exams End	Wed, Aug 15, 2024

CONTACT INFORMATION

Address

D-65, Block H, North Nazimabad Town, Karachi.

Phone

021- 36630303

FACULTY MEMBERS

Dr. Shehla Najib Sidiki

Dean, Faculty of Liberal Arts & Human Sciences
Associate Professor
Ph.D. Management, SZABIST

Rana Hussain

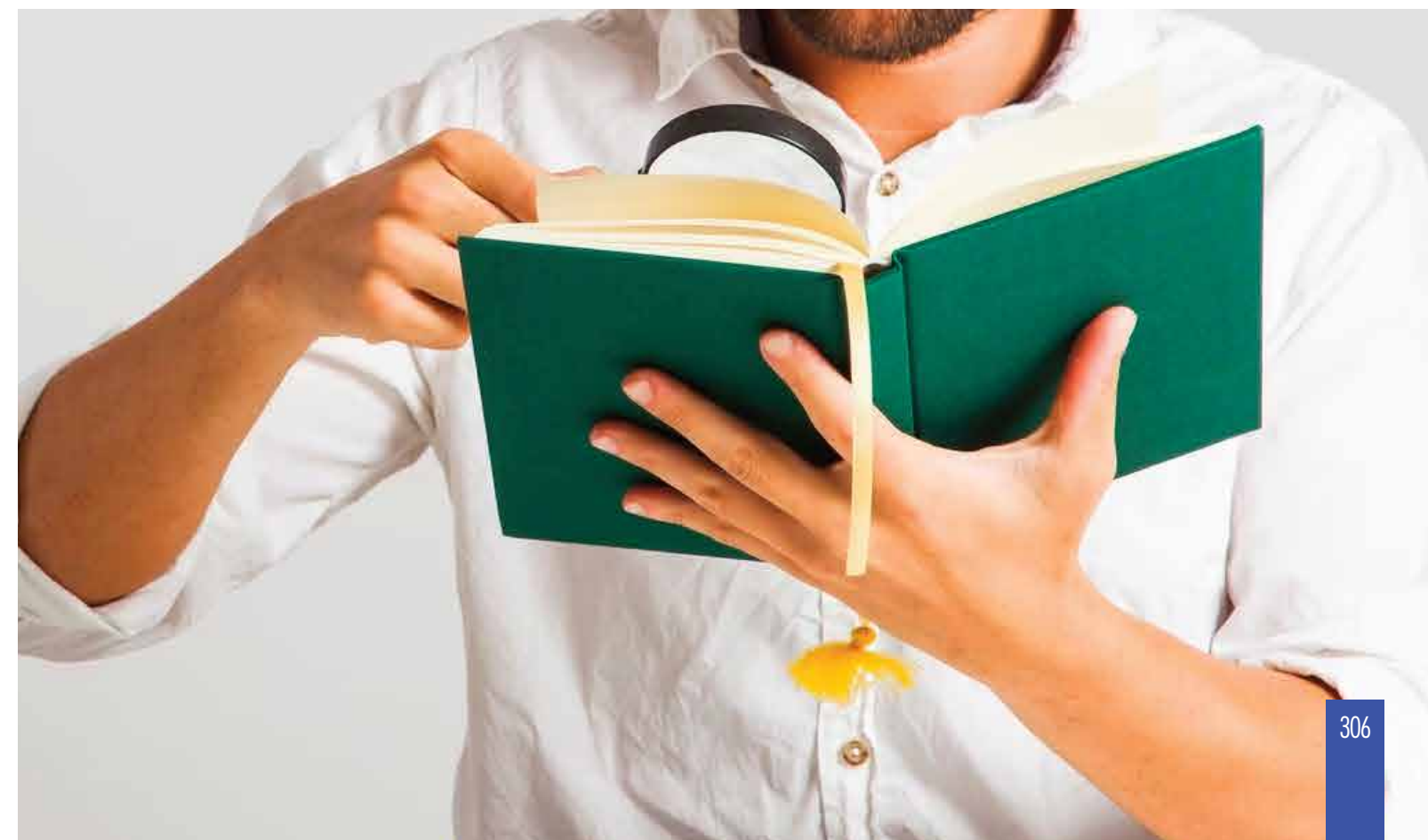
Principal College of Education Ziauddin University
Director Ziauddin School And College
MEd. University of Toronto (Canada)
Ex-Head Academic Programmes Aga Khan University-
Institute for Educational Development
Technical Adviser Curriculum (Sind Curriculum Council)
Secretary Teachers Resource Centre

Prof. Dr. Muhammad Yousuf Sharjeel

PhD (Psychological Testing)
PhD (Psychogenic Disorders & Dyslexia)
M.Phil. (Gold Medal) (Quality & Performance)
M.Ed. Planning & Management (Gold Medal)
B.Com, B.Ed. (Gold Medal)
C.P.S.E, Language & Learning (Bradford U.K)
Dip.Ed., Measurement & Testing (Bradford U.K)
C.O.T.E, Assessment Technology (Cambridge, U.K)
Licensed by Ministry of Education, U.A.E (1989)
Member A.E.R.A, U.S.A, M.S.E.R.A, U.S.A
HEC Research Supervisor
Patron-in-Chief, Journal of Educational Management and Social Sciences (JEMSS)
Life Member Pakistan Psychological Association PP/LM/15/599

Noor-e-Sahar

Sr. Lecturer Digital Literacy /ICT Specialist
Masters in Economics and Masters in Information Technology
Diploma in Teaching and Learning-University of Cambridge
Master Trainer for Education Technology



COLLEGE OF CLINICAL PSYCHOLOGY

KEY INFORMATION

Principal
Ms. Sarah Jahangir

CONTACT INFORMATION

Website:
<https://ccp.zu.edu.pk/>
Telephone:
021-35810547
Email:
info@zu.edu.pk
Locate Us:
Ground Floor, H.A Arcade, B.C-05,
Block-1, Clifton, Karachi-75600

My clinical psychology journey at Ziauddin University has been amazing. Currently I'm in 3rd year, and the practical skills I learn are really helpful. The College of clinical psychology has not only provided clinical exposure but excellent understanding of psychology concepts as well. The faculty as well as the environment is great. I have learned a lot and am still learning.

UMAIMA ABDUL JABBAR
COLLEGE OF CLINICAL PSYCHOLOGY

INTRODUCTION

The College of Clinical Psychology is providing quality education and clinical services.

Our mission is to create an inclusive community dedicated to innovation and excellence in teaching, research as well as public service and engagement through hard work, integrity, freedom and discovery.

Psychology is the scientific study of the mind and behavior, according to the American Psychological Association. Psychology is a multifaceted discipline and includes many sub-fields of study such as human development, sports, health, clinical, social behavior and cognitive processes. In the discipline of psychology, the College offers a variety of programmes:

1. BS in Clinical Psychology
2. MS in Applied Psychology (Postgraduate)

VISION

The College of Clinical Psychology is rooted in Ziauddin University's strong commitment to become the most distinguished provider of quality education and clinical services. It envisions applying scientific knowledge of human behavior to benefit individuals and society.

MISSION

College of Clinical Psychology is committed to equip students with rigorous academic knowledge, evidence-based clinical practice, and critical thinking abilities through education, research, and training in the psychological arena. The College prepares the next generation of ethical, knowledgeable, and innovative professionals using models emphasizing scientific rigor and experiential learning in conjunction with the academic programmes.

BS CLINICAL PSYCHOLOGY

INTRODUCTION

This 4-year BS is a unique programme designed to develop trained professionals in the field of Clinical Psychology. The initiative of introducing the programme has been taken by Ziauddin University to cater to the urgent demand for trained clinical psychologist all over the country and to equip graduates with a world class theoretical and clinical experience necessary to practice mental health evaluation and treatment of diverse populations.

The BS Clinical Psychology programme is both knowledge and skill oriented. The curriculum emphasizes in depth training - both theoretical and clinical- with clinical training (i.e. observation and performance of clinical work) within Ziauddin Hospitals, in special schools, and in mainstream schools.

The BS CP programme offers the evidence based supervised internship which is mandatory for the specialized courses in clinical psychology.

VISION

This programme aims to contribute to the advancement of knowledge through cutting-edge research and clinical practice in

the field of mental health services. We aim to develop graduates who can apply fundamental clinical psychology knowledge and develop the competencies and skill necessary for success in clinical psychology.

MISSION

BS Clinical Psychology programme provides an environment where graduate students can receive supervised training from qualified faculty and staff. Students are trained in the application, development, and refinement of psychotherapy and assessment skills, to improve their analytical and research abilities.

CAREER PROSPECTS

Graduates will be able to find numerous job opportunities in government and private organizations, NGOs and service sector institutions such as hospitals, rehabilitation centers and healthcare management programmes.

- Clinical psychologist
- Child psychologist
- Counsellors
- School Psychologist
- Armed Force Psychologist
- Clinical Case Manager

COURSE OUTLINE

SEMESTER 1

No.	Courses	Course	Category
1	GCC106	Elementary Maths & Stats	General Education
2	GCC101	English	Compulsory
3	GCC104	Pakistan Studies	Compulsory
4	CP101	Introduction to Psychology	Foundation
5	CP102	Introduction to Social Psychology	Foundation
6	GCE101	Introduction to Human Biology	General Education

SEMESTER 2

No.	Courses	Course	Category
7	GCC105	Intro to ICT & Digital literacy	General Education
8	GCC103	English II	Compulsory
9	GCC102	Islamic Studies	Compulsory
10	CP103	History & School of Psychology	Foundation
11	CP104	Human Development & Psychology	Foundation
12	GCE102	Neuroanatomy	General Education

SEMESTER 3

No.	Courses	Course	Category
13	GCE201	Intro to Stats	General Education
14	GCC201	English III	Compulsory
15	CP201	Elements of Clinical Psychology	Foundation
16	CP202	Personality theories	Foundation
17	CP203	Psychology of Cognition & Perception	Foundation
18	GCE202	Neurophysiology	General Education

SEMESTER 4

No.	Courses	Course	Category
19	GCE203	Biostatistics	General Education
20	CP204	Health Psychology	Major
21	CP205	Principles of Counseling & Psychotherapy I	Major
22	CP206	Child Developmental & Mental	Major
23	CP207	Ageing Psychology	Elective
24	CP208	Positive Psychology	Major

SEMESTER 5

No.	Courses	Course	Category
25	CP301	Research Methods in Psychology	Major
26	CP302	Fundamentals of Neuropsychology	Major
27	CP303	Mental Health & Psychopathology	Foundation
28	CP304	Psychological Test & Measurements I	Foundation
29	CP305	Educational Psychology	Major
30	CP306	Principles of Counseling & Psychopathology II	Foundation

SEMESTER 6

No.	Courses	Course	Category
31	CP307	Applied Behavior Analysis	Major
32	CP308	Psychological Test & Measurements II	Major
33	CP309	Organizational Psychology	Major
34	CP310	Community Psychology	Major
35	CP311	Forensic Psychology	Elective
36	CP312	Sports Psychology	Major

SEMESTER 7

No.	Courses	Course	Category
37	CP401	Professional Practices & Ethics in Psychology	Foundational
38	CP402	Psychopharmacology	Major
39	CP403	Special Education	Elective
40	CP404	Supervised Clinical Practice	
41	CP405	Clinical Decision making & Differential Diagnosis	Major
42	CP406	Qualitative & Quantitative Research	Major

SEMESTER 8

No.	Courses	Course	Category
43	CP407	Crises Intervention (Trauma/ Disaster/ Management)	Major
44	CP408	Cognitive Behavior therapy	Elective
45	CP409	Supervised Clinical Practice	
46	CP410	Rehabilitation Sciences	Elective
47	CP411	Research Project/Thesis	

ELIGIBILITY CRITERIA

- Minimum 50% marks in Intermediate/ A Level
- Commitment towards a helping profession
- Admission test and interview will also be conducted for admission purposes.

FEE STRUCTURE

Application	
Processing Fee	5,000 One time Only
Security Deposit	10,000 One Time Only
Admission Fee	50,000 One time Only
Tuition Fee	100,000 Per Semester
Examination Fee	10,000 Per Semester
Student Activity	8,000 Per Semester
Library Fee	20,000 Yearly
TOTAL	198,000

PROGRAMME DURATION

BS Clinical Psychology is a four-year undergraduate programme comprising of 140 credit hours and 47 courses. These courses can be completed within the duration of 4 years.



MS APPLIED PSYCHOLOGY

INTRODUCTION

MS Applied Psychology is a rigorous two-year programme that intends to produce competently trained practitioners and researchers, through the provision of advanced level of knowledge, training, and research.

VISION

Our programme's vision is to empower the students through evidence-based practices, foster a profound understanding of human behavior, and impart practical skills across diverse specialized fields of Psychology. Through our comprehensive curriculum and unwavering commitment to community welfare, we envision cultivating compassionate professionals who are capable of creating a lasting impact by applying psychological principles to promote mental health well-being and resilience.

MISSION

This programme's mission is to prepare ethical and innovative professionals through scientific rigor and experiential learning. The passion is to sharpen the analytical skills of students based on objective and pragmatic investigation of the psychological dynamics of society by offering various specializations and to provide the state-of-the-art community services

PROGRAMME OBJECTIVES

The programme objectives are to

1. Empirically appraise the delivery of psychological services to users.
2. Extensively use a variety of research methodologies and psychological approaches to generate new knowledge in a broad range of professional contexts.
3. Apply the knowledge and skills in diverse specialized fields of Psychology.

AREAS OF SPECIALIZATION

1. Clinical Psychology
2. Health Psychology
3. Child Psychology
4. Organizational Psychology

*Specializations available may change in accordance with university policy.

SCHEME OF STUDY

There are two streams offering for MS Applied Psychology:

MS (Course based stream)

Core Courses: 04 (12 credit hours)
Elective courses: 06 (18 credit hours)
Placement: 06 (6 credit hours)

MS (Research-based Stream)

Core Courses: 04 (12 credit hours)
Elective courses: 04 (12 credit hours)
Placement: 06 (6 credit hours)
Thesis: 06 (6 credit hours)

List of Elective Courses	Credit hours
Foundations of Clinical Psychology	03
Fundamentals of Neuropsychology	03
Neurophysiology & Psychopharmacology	03
Introduction to Psychology	03
Social Psychology	03
Personality Psychology	03
Psychodiagnosis and Psychological Assessment with Adults	03
Psychological Interventions-I	03
Psychodiagnosis and Psychological Assessment with Children and Adolescents	03
Psychological Interventions-II	03
Cognitive Behavior Therapy	03
Rehabilitation Psychology	03
Trauma and Crisis Interventions	03
Addiction	03
Organizational Behavior	03
Personnel Psychology	03
Vocational Guidance	03
Organizational Psychology and Psychometrics	03
Personal Training and Development	03
Psychology of Work	03
Organizational Leadership and Marketing	03
Psychology of Safety	03
Introduction to Health psychology	03
Chronic and Terminal Conditions	03
Assessment of Health Status and Quality of Life	03
Psycho-Social Aspects on Illness and Treatment	03
Health Care Leadership and Effecting Change	03
Occupational Health and Safety	03
Health Communications	03
Strategic Management of Health Care Organizations	03
Child and Adolescents Psychopathology: Assessment and Diagnosis	03
Approaches to Child and Adolescents Treatment -I	03
Family Psychology	03
Approaches to Child & Adolescent Treatment II	03
Educational Psychology	03
Applied Behavior Analysis	03
School Counselling	03
Thesis	06
Placements	06

*Electives in available field of specialization

CAREER PROSPECTS

Graduates will be able to find numerous job opportunities in government and private organizations, NGOs and service sector institutions such as hospitals, rehabilitation centers and healthcare management programmes.

- Clinical psychologist
- Child psychologist
- Counsellors
- School Psychologist
- Armed Force Psychologist
- Clinical Case Manager
- Research Organization

ELIGIBILITY CRITERIA

1. Candidates applying for admission in MS

Applied Psychology (Clinical Psychology, Health Psychology, Child Psychology) must have sixteen (16) years of education from an HEC recognized Higher Education Institute in the following disciplines, along with relevant work experience:

- a. BS/MA/MSc degree in Psychology with two years of clinical work experience in the relevant field or Post Magistral Diploma in clinical psychology (PMDCP)
 - b. BS degree in Clinical Psychology
2. Clearance of the GAT/Ziauddin University admission test with 50% marks.
 3. Interview and Psychological Assessment: This will be conducted to determine the suitability of the candidates for MS in Applied Psychology Programme.

SEMESTER-WISE BREAKDOWN

Semester I	
Courses	Credit Hours
Ethics and Professional Development	3
Research Methods in Psychology: Qualitative Approaches	3
Elective I	3
Elective II	3
Total	12
Semester 2	
Research Methods in Psychology: Quantitative Approaches	03
Advanced Statistics	03
Elective III	03
Elective IV	03
Total	12
Semester 3	
Placement I	03
Elective V or Thesis	03
Total	06
Semester 4	
Placement II	03
Elective VI or Thesis	03
Total	06

FEE STRUCTURE

Duration	2 Years
Admission Fee	50,000 One time
Application	
Processing Fee	5,000 One time
Tuition Fee	80,000 Per semester
Number Courses of Per Semester	04
Examination Fee	10,000 Per semester
Security Deposit (Refundable)	10,000 One time
Student Activity Fund	10,000 Per year
Total Fee 1st Semester	165,000

PROGRAMME DURATION

MS Applied Psychology is a two-year (4 semesters) Post graduate programme comprising of 36 credit hours and 47 courses. These courses can be completed within the duration of 4 years.

ACADEMIC CALENDAR FOR THE YEAR 2023-24**Spring 2023**

Orientation Spring 2023	Fri, Feb 24, 2023
Commencement of Regular Classes	Mon, Feb 27, 2023
Last Day to Drop Courses	Sun, Mar 12, 2023
Mid-term Exam Begins (8th Week)	Mon, Apr 17, 2023
Mid-term Exam End	Sun, Apr 23, 2023
Classes End	Sun, Jun 11, 2023
Final Exams Begin (17th Week)	Mon, Jun 19, 2023
Final Exams End	Sun, Jun 25, 2023
Announcement of Results	Mon, Jul 03, 2023

Summer 2023

Commencement of Regular Classes	Mon, Jul 03, 2023
Last Day to Drop Courses	Sun, Jul 09, 2023
Classes End	Sun, Aug 20, 2023
Final Exams Begin (9th Week)	Mon, Aug 21, 2023
Final Exams End	Wed, Aug 23, 2023
Announcement of Results	Mon, Aug 28, 2023

Fall 2023

Orientation Fall 2023	Fri, Sep 08, 2023
Commencement of Regular Classes	Mon, Sep 11, 2023
Last Day to Drop Courses	Sun, Sep 24, 2023
Mid-term Exam Begins (8th Week)	Mon, Oct 30, 2023
Mid-term Exam End	Sat, Nov 04, 2023
Classes End	Sun, Dec 24, 2023
Final Exams Begin (17th Week)	Mon, Jan 01, 2024
Final Exams End	Sun, Jan 07, 2024
Announcement of Finals Results	Mon, Jan 15, 2024

FACULTY MEMBERS**Dr. Shehla Najib Sidiki**

Dean of Faculty of Liberal Arts and Human Sciences

Ms. Sarah Jehangir

Head of Department, College of Clinical Psychology, Ziauddin University
PMD in Clinical Psychology, Diploma in Health-care management
MS in Clinical Psychology, (in process)

Dr. Saba Yasien

Associate Professor
MA, Post Magisterial Diploma in Clinical Psychology, M.Phil. and PhD

Dr. Sadaf Hafeez Chohan

Assistant Professor, Consultant Clinical Psychologist, Hypnotherapist
PMD in Clinical Psychology, Ph.D from Institute of Clinical Psychology, University of Karachi

Mr. Aoun Ali

Senior Lecturer
M.Phil. in Clinical Psychology from the Institute of Clinical Psychology University of Karachi

Ms. Shumaila Atif

Lecturer/ Clinical Psychologist
M.Phil. in Clinical Psychology

Ms. Anusha Sajid

Lecturer/ Clinical Psychologist
BS (Honors) Psychology, MSc Psychology

Ms. Syeda Sania Khalid

Lecturer/ Lab Psychologist
BS (Honors) Psychology, MSc Psychology

CONTACT INFORMATION**Address**

College Clinical Psychology, Block-1, Clifton, Karachi (75600)

Phone

021-35810547

Email

info@zu.edu.pk

Website

<https://lahs.zu.edu.pk>

FACULTY OF VETERINARY AND ANIMAL SCIENCES



FACULTY OF VETERINARY AND ANIMAL SCIENCES

KEY INFORMATION

DEAN

Prof. Dr. Zafar Iqbal Qureshi

CONTACT INFORMATION

Website:

<https://zu.edu.pk/faculty-of-veterinary-and-animal-sciences/>

Telephone:

021-35862937-9 EXT: 2701

Email:

info@zu.edu.pk

Locate Us:

Education City, Link Road, Karachi.

When I first applied to the Veterinary programme at Ziauddin University, I was filled with excitement. The chance to study in a new country, experience different cultures, and be provided with new opportunities was something I had been looking forward to.

In meeting my expectations, Ziauddin did not disappoint. Since coming here, I have been doing my level best to uphold the standards of this university. The opportunities that I have been provided have not only impacted my academic growth but my personal growth as well.

Although it has not been easy. The culture shock of going to a new country is quite jarring, and it took some time to adapt to it. However, I have reached out to various sources, including the staff members who have aided me in such endeavors. For this, I am truly grateful. I have often found myself impressed by how much care Ziauddin takes in nurturing their students and allowing them to reach their full potential.

Moreover, I was truly impressed by the equipment the university has provided us with. Along with the fact that Ziauddin has their own farm, it allows us to get hands-on experience in animal health care and treatment, which has been invaluable for me.

I am aware that there will be many challenges in the future, nevertheless, I am certain that with all that Ziauddin University has instilled in me, I will be more than capable of achieving my future goals. Anyone with the right amount of dedication and effort will surely find themselves achieving new heights at Ziauddin University.

FATIMAH MAISAAN ALI
1ST YEAR D.V.M STUDENT

INTRODUCTION

Land erosion, Water logging, Water shortage, and inherited division of land holdings have led to a drastic increase in the number of small agriculture/livestock farmers. The main reliance of these farmers for their livelihood has therefore been shifted to rearing livestock. Livestock is an important subsector of agriculture contributing about 61.89 percent to agriculture value and 14.04 percent to GDP. Additionally, 30-35 million of the rural population is engaged in livestock raising. The world is growing more complex, and knowledge of science, animals, animal production, and animal health is expanding rapidly. Consequently, people expect more and more from the veterinary profession. The veterinary profession must become capable of delivering higher and higher levels of services to all the classes of animals important to people and achieve an even higher level of competence in all veterinary activities.

Realizing the food needs, food safety, and food security for the human population in the future and to address the issue of climate change, the world animal health organization has emphasized on improvement of veterinary education standards in all veterinary teaching institutions of the world for the betterment of animals and public health. Therefore, livestock is vital for food security, rural development, and poverty alleviation in Pakistan. The steep rise in commodity prices has further enhanced the importance of this sector.

Ziauddin University Faculty of Veterinary and Animal Sciences is the first Pakistan Veterinary Medical Council-accredited institution in Karachi. Established with a purpose-built, state-of-the-art infrastructure, the faculty has excellent laboratories, spacious lecture/seminar halls equipped with multimedia, a library, and much more. The campus is spread over 75 acres of the picturesque landscape of Education City Link Road, only a 15 to 30-minute drive from the city. The campus is surrounded by dairy, cattle, sheep, goat, and poultry farms. It has close

linkages with these farmers, provincial livestock departments as well as other veterinary institutions of the country for creating industry awareness and providing farm management exposure to the students. A mini zoo, a goat farm, buffaloes, and several large animals are also other attractions of the faculty.

The teaching faculty is highly qualified, and most of them have foreign postgraduate qualifications and years of practical experience.

VISION

Improve animal and human health through excellence in veterinary education and clinical services with an ultimate goal to address food safety, food insecurity, and climate change impact.

MISSION

The ZUFVAS is dedicated to the well-being of animals and humans through excellence in education, research, veterinary practices, and services to the community with integrity, quality, creativity, innovation and commitment.

**DOCTOR OF VETERINARY MEDICINE (DVM)
05-YEAR DEGREE PROGRAMME****INTRODUCTION**

Doctor of Veterinary Medicine is a five-year, semester-based degree programme.

LEARNING AND TEACHING STRATEGIES:

Both national and international qualified teaching faculty promote better understanding through Presentation/Assignment/Seminar/Practical performance

TUTORIALS:

Fully Equipped labs
Farm Management
Clinical Practices (Supervised/Independent)
Clinical Training and Farm Management

Students of Ziauddin Faculty of Veterinary and Animal Sciences have the advantage to be a part of an organization with the setup for poultry birds, wildlife, small and large animals, and pet care clinic. Clinical training provides a better chance of learning and practicing the skills in the field, hence, preparing future veterinarians to play an important role in improving healthcare quality in society. Students of 3rd, 4th & 5th professionals will complete their clinical training at the link road campus of Dr. Ziauddin University. In addition, Ziauddin Faculty of Veterinary and Animal Sciences has close collaborations with other major Veterinary Sciences institutions like the Sindh Institute of animal health and local dairy, meat, poultry, fisheries, and wildlife farms in the Karachi area.



LIVESTOCK ASSISTANT DIPLOMA (LAD) 02-YEAR DIPLOMA COURSE

INTRODUCTION

The primary goal of a Livestock Assistant is to provide organized technical and skilled services of modern animal husbandry studies and techniques that help in improving the productivity of domestic livestock. In addition, these services ensure a sustainable livelihood and provide a route toward poverty alleviation, particularly in rural areas. Livestock Assistant Diploma at Ziauddin University is a 2-year programme that would professionally train students for assisting Doctor of Veterinary Medicine (DVM) graduates at veterinary hospitals, dispensaries, livestock farms, and fields. Moreover, it would ensure to provide of technical skills

for advising farmers on livestock management and hygiene practices, also efficiently handling major/minor livestock-related cases.

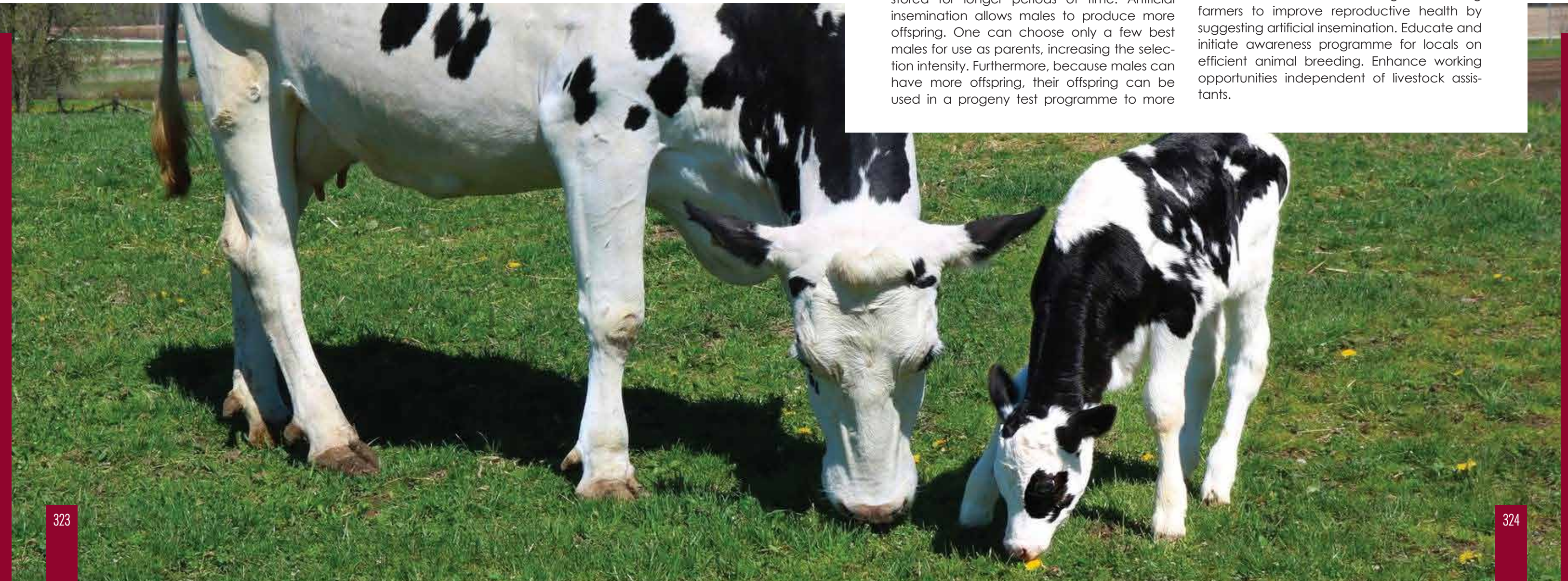
Further, the aim of the diploma includes teaching technical skills that would enable students with the services of analyzing signs of diseases and providing required treatment to sick or infected animals. To assist progressive farmers in improving the reproductive health of their animals. Helps in seasonal vaccinations against major animal diseases. Moreover, collection and analysis of blood, milk and fecal samples for proper laboratory diagnosis and improvement of animal health.

ARTIFICIAL INSEMINATION (A.I) 06- MONTH COURSE

INTRODUCTION

The primary aim of the Artificial Insemination Technique (AIT) is to provide biotechnological skilled services of modern animal husbandry studies and techniques that help in improving the productivity of livestock. Furthermore, this technique ensures to provide a route towards poverty alleviation, particularly in rural areas. AIT at Ziauddin University is a 6-month programme that would professionally train candidates in technical skills for advising farmers on a correct breeding plan. Semen can be easily transported; allowing multiple females in different geographical locations to be inseminated simultaneously, and semen can be stored for longer periods of time. Artificial insemination allows males to produce more offspring. One can choose only a few best males for use as parents, increasing the selection intensity. Furthermore, because males can have more offspring, their offspring can be used in a progeny test programme to more

accurately evaluate the genetic value of the male. Finally, individual farmers can use artificial insemination to increase the genetic pool with which his or their animals can be mated, potentially decreasing the effects of inbreeding. Male animals often grow to be larger than females and can consume relatively larger amounts of feed. Infected, male animals are often more strong, powerful, and potentially ill-mannered and thus require special housing and handling equipment. The benefits of more intense selection must be balanced against the negative effects of decreased variation. Further, the objectives of the diploma include imparting technical skills that would enable students with the skills of assisting and advising farmers to improve reproductive health by suggesting artificial insemination. Educate and initiate awareness programme for locals on efficient animal breeding. Enhance working opportunities independent of livestock assistants.



CAREER PROSPECTS OF PROGRAMME

- Teaching in Higher Education Institutions.
- Research organizations in veterinary and public health.
- Private Practices (Pets/animal health clinics)
- Private Business (Dairy farm, Poultry Farm, goat/Sheep farm, and fish farm)
- Government/Private Jobs
- Livestock/poultry disease diagnostic laboratories
- Consultancy

ELIGIBILITY CRITERIA

Doctor of Veterinary Medicine (DVM)

- Minimum of Higher Secondary Certificate Examination in Pre-Medical Group Examination held by a recognized Board of Intermediate Education in Pakistan or A Level and other equivalent to HSC (Pre-medical) for Doctor of Veterinary Programme.
- Applications from overseas candidates are also invited.
- Students awaiting results of Board of Intermediate / A-level Examinations are also eligible to apply.

Note: It is the responsibility of the applicant to apply according to instructions given with the application form.

- Applications are invited for, Link Road.
- (The final allocation based on the location will be at the discretion of Ziauddin University depending upon the number of applications.)

Documents to Be Submitted

- Attested copy of SSC / 'O' Level (IBCC Equivalence) Certificate
- Attested copy of HSC / 'A' Level (IBCC Equivalence) Certificate
- Attested copy of SSC / 'O' Level Mark Sheet
- Attested copy of HSC / 'A' Level Mark Sheet
- Attested copy of NIC or 'B' Form of Applicant
- Attested copy of NIC of 2 references
- Attested copy of NIC of Parents / Guardian
- HSC II Admit Card in case of result not announced
- Applicant's one (1) passport size photograph

Student Selection

Final selection of students is decided based on their performance in the following:

- Secondary School Certificate
- Higher Secondary Certificate
- Ziauddin University Test
- Interview

Aptitude Test

• The university conducts an Aptitude Test for all eligible candidates. The test consists of Multiple-Choice questions of various types. The test comprises four to five sections designed to assess each applicant's performance in the areas of

- Biology
- Chemistry
- Physics
- General Knowledge
- English

• The level of questions in sections of Biology, Physics, and Chemistry corresponds to that expected at the end of Intermediate Examination or equivalent qualifications.

Interview

• Applicants are interviewed to assess their suitability to complete their respective courses and pursue a career in veterinary sciences.

Notification of Admission

University will inform successful applicants and a deadline will be given for the confirmation of admission. Offers not accepted by the given deadline will be canceled

Livestock Assistant Diploma (LAD)

- Secondary Certificate Examination held by a recognized Board of Intermediate Education in Pakistan or A Level and other equivalent to HSC for LAD Programme.
- Applications are invited for Link Road Campus.

Artificial Insemination (A.I)

- Doctor of Veterinary Medicine (DVM) Graduates.
- Livestock Assistant Diploma (LAD) Certificate holder.
- Nominees from Dairy Sector (Minimum qualification HSC/Intermediate in (Pre-medical group).

FEE STRUCTURES

Doctor of Veterinary Medicine (DVM)

Application Fee	2,500
Admission Fee	25,000
Semester Tuition Fee	175,000
Security deposit (one-time refundable)	25,000
Student Fund	10,000
Total	237,500

Livestock Assistant Diploma (LAD)

Admission Fee	25,000
Security Deposit	10,000
Registration Fee	5,000
Student Fund	4,000
Semester Tuition Fee	50,000
Examination Fee	1,000
Total Amount	95,000

Artificial Insemination (A.I)

Admission Fee	25,000
Security Deposit	5,000
Registration Fee	2,500
Student Fund	2,000
Semester Tuition Fee	50,000
Examination Fee	500
Total Amount	85,000

TENTATIVE ACADEMIC CALENDAR 2024-25

DVM 1st Year (Batch-II)

SEMESTER-I (Spring)				
Semester	Event	Start	End	Duration
Spring	Admission Commencement	Wednesday, August 23, 2023	Wednesday, January, 2023	
Spring	Semester Start	Monday, February 05, 2024	Friday, June 07, 2024	17 weeks
Spring	Pre-Midterm Classes	Monday, February 05, 2024	Monday, March 29, 2024	8 weeks
Spring	Mid Term Exam	Monday, April 01, 2024	Monday, April 05, 2024	1 week
Spring	Post Midterm Classes	Monday, April 08, 2024	Friday, June 07, 2024	8 weeks
Spring	Termination of Classes	Friday, June 07, 2024		
Spring	Preparation week	Monday, June 10, 2024	Friday June 14, 2024	1 week
Spring	Final Exam	Monday June 21, 2024	Friday, June 28, 2024	2 weeks
Spring	End of Semester	Friday, June 28, 2024		
Break		Monday, July 01, 2024	Friday, July 12, 2024	2 weeks
SEMESTER-II (Fall)				
Fall	Admission Commencement	N/A		
Fall	Semester Start	Monday, July 15, 2024	Friday, November 08, 2024	17 weeks
Fall	Pre-Midterm Classes	Monday, July 15, 2024	Friday, September 13, 2024	8 weeks
Fall	Mid Term Exam	Monday, September 16, 2024	Friday, September 20, 2024	1 week
Fall	Post Midterm Classes	Monday, September 23, 2024	Friday, November 01, 2024	6 weeks
Fall	Termination of Classes	Friday, November 01, 2024		
Fall	Preparation week	Monday, November 04, 2024	Friday, November 08, 2024	1 week
Fall	Final Exams	Monday, November 11, 2024	Friday, November 22, 2024	2 weeks
Fall	End of Semester	Friday, November 22, 2024		
Break		Monday, November 25, 2024	Friday, December 06, 2024	2 weeks
SEMESTER (Winter)				
Winter	Admission Commencement	N/A		
Winter	Semester Start	Monday December 09, 2024	Friday, January 17, 2024	6 weeks
Winter	Pre-Midterm Classes	Monday December 09, 2024	Friday, December 20, 2024	2 weeks
Winter	Mid Term Exam	Monday, December 23, 2024	Friday, December 27, 2024	1 week
Winter	Post Midterm Classes	Monday, December 30, 2024	Friday, January 17, 2025	3 weeks
Winter	Termination of Classes	Friday, January 17, 2025		
Winter	Final Exams	Monday, January 20, 2025	Friday, January 31, 2025	2 weeks
Winter	End of Semester	Friday, January 31, 2025		



FACULTY MEMBERS

Dr. Zafar Iqbal Qureshi

Professor and Dean
Department of Theriogenology
D.V.M (UAF)
M. Phil. (UAF)
Ph.D. (UAF)
Post Doc (Canada)

Dr. Noor Muhammad Soomro

Professor
Department of Veterinary Pathology
D.V.M (SAU)
M.Sc.(SAU)
Ph.D. (UK)

Dr. Maria Amir Solangi

Assistant Professor and Vice Principal
Department of Veterinary Physiology
and Bio Chemistry
D.V.M (SAU)
M. Phil. (USA)
Ph.D. (Malaysia) in Progress

Dr. Zain ul Aabdin

Assistant Professor
Department of Preventive Veterinary Medicine
and Public Health
D.V.M (SAU)
M.Phil. (China)
Ph.D. (China)

Dr. Sheeraz Mustafa

Assistant Professor
Department of Animal Breeding and Genetics
D.V.M (SAU)
M.Phil.(SAU)
Ph.D. (China)

Dr. Muhammad Farooque

Assistant Professor
Department of Veterinary Microbiology
D.V.M (SAU)
M.Phil.(SAU)
Ph.D. (China)

Dr. Benazir Sahito

Assistant Professor
Department of Veterinary
Pharmacology and Toxicology
D.V.M (SAU)
M.Phil.(SAU)
Ph.D. (China)

Dr. Muhammad Waseem Usmani

Assistant Professor
Department of Veterinary Parasitology
D.V.M (UAF)
M.Phil. (UAF)
Ph.D. (UAF)

Dr. Nimra Hassan

Lecturer
Department of Veterinary Physiology
and Bio Chemistry D.V.M (SAU)
M.Phil.(SAU)

Dr. Adil Mustafa

Lecturer
Department of Poultry Husbandry/Sciences
D.V.M (SAU)
M.Phil.(SAU)

Dr. Ubaid Qureshi

Lecturer
Department of Livestock Management
D.V.M (SAU)
M.Phil.(SAU)

Dr. Jawed Ali Dhilloo

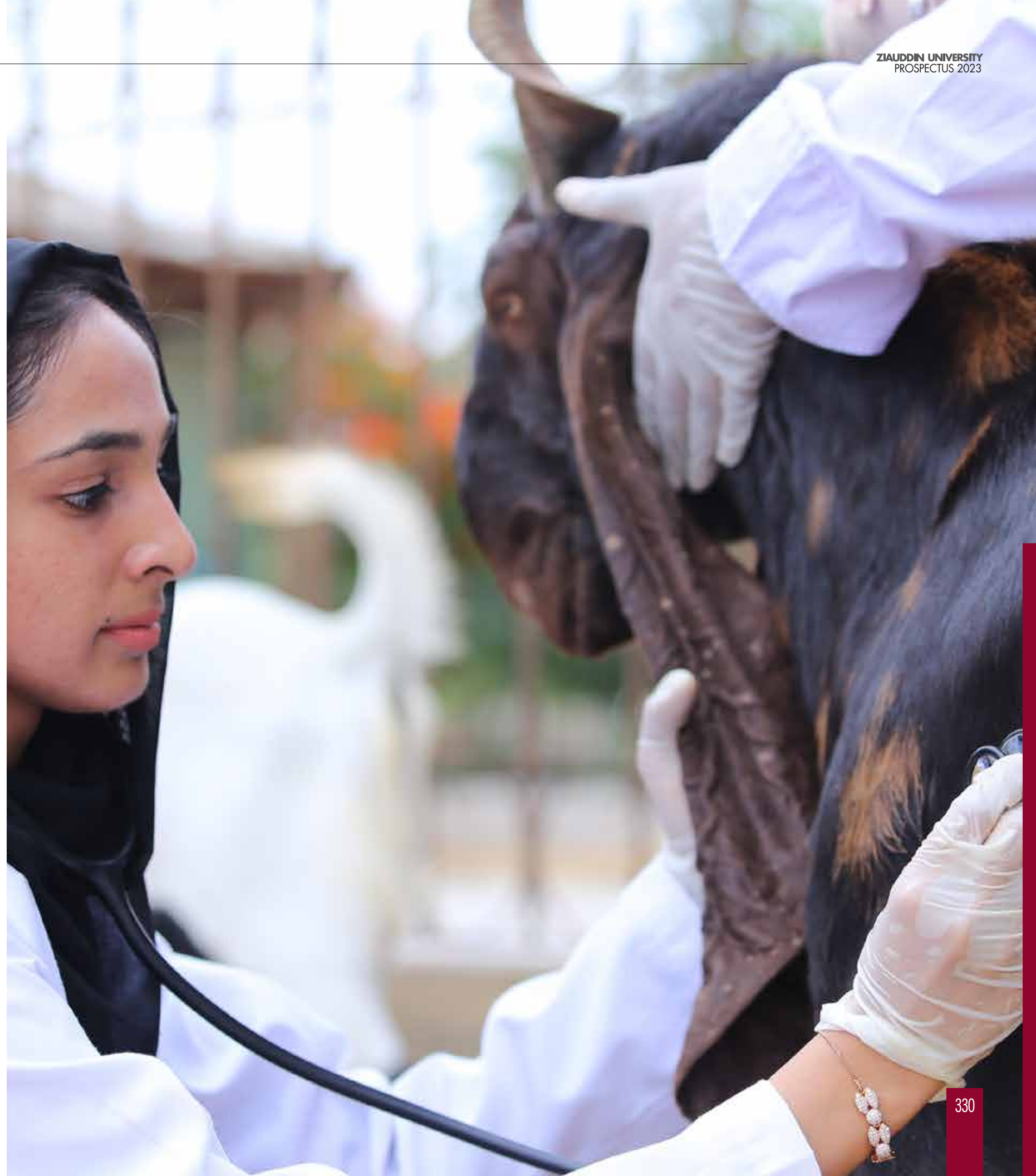
Lecturer
Department of Veterinary Surgery and Obstetrics
D.V.M (SAU)
M.Phil.(SAU)

Dr. Imran Khan Baloch

Lecturer
Department of Livestock Extension
D.V.M (SAU)
M.Phil.(SAU)

Dr. Hafiz Ahmed Hameed

Lecturer
Department of Veterinary Anatomy and Histology
D.V.M (UAF)
M.Phil.(UVAS)



DEPARTMENT OF CONTINUING PROFESSIONAL EDUCATION

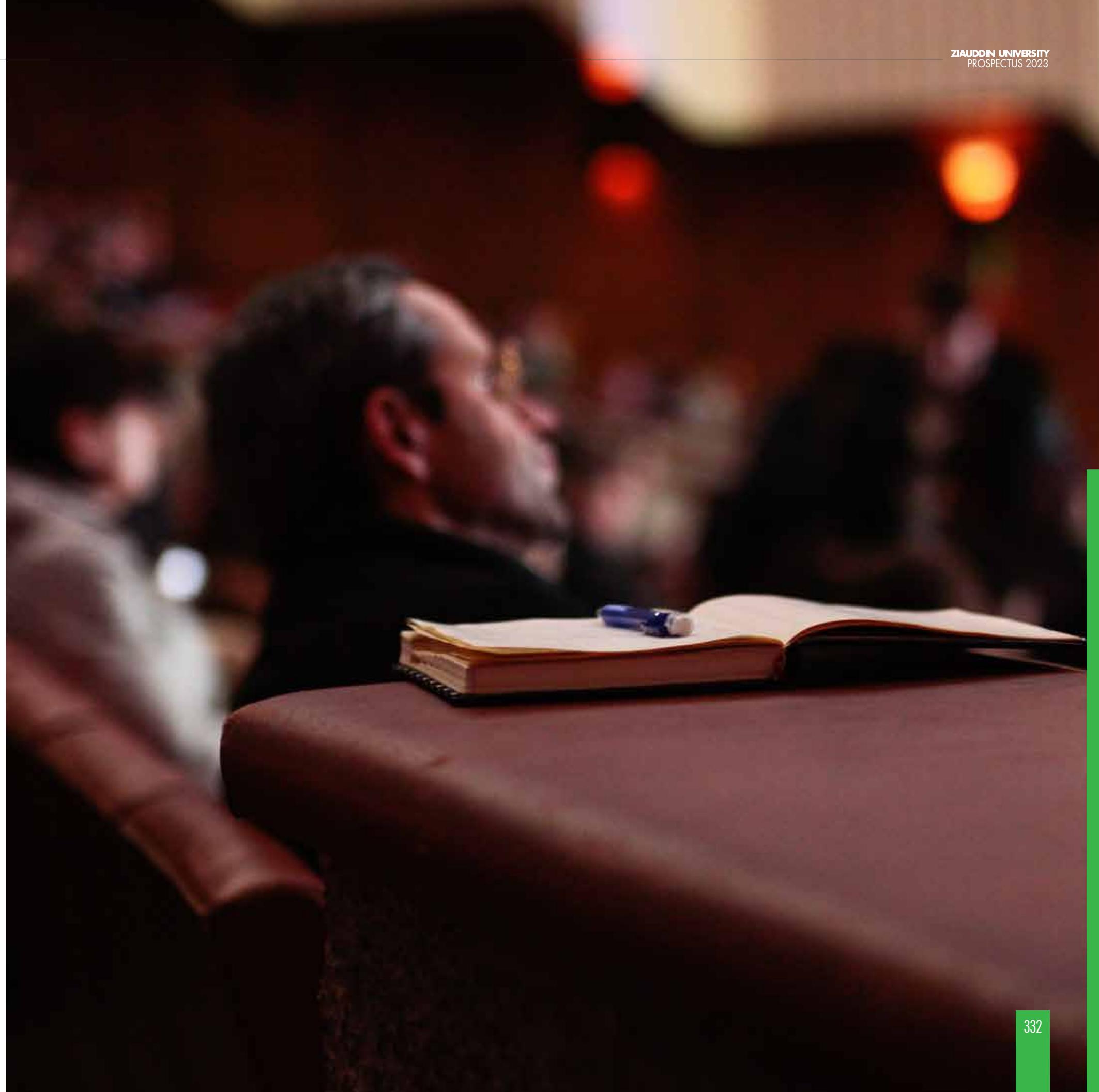
The Ziauddin University department of Continuing Professional Education is committed to serving through programmes of excellence in education, patient care, research and other public service initiatives, which advance the health of the general public. Continuing professional education provides opportunities for the healthcare professionals to continue learning, utilising adult learning principles and available technology.

Major responsibilities of the Programme are:

- To identify the educational needs and interests of professionals.
- To provide learning opportunities for new knowledge and skills.
- To partner with other healthcare facilities and educational institutions to promote public health.
- To strive to heighten the health professional's awareness of the need for compassion in patient care and the dignity of human life.

The DCPE provides assistance in planning, developing and providing activities to physicians, nurses and other allied health care personnel in ZU. The courses would be offered to healthcare providers at the local, national and regional levels in full compliance with University policies.

To maximise learning opportunities, a wide range of activities are offered which include, formal courses, seminars, workshops, video conferences/distance learning, journal clubs, grand rounds and teaching conferences, and innovative technologies such as web-based learning activities for personal skill development in medical procedures and teaching competence. All activities are conducted in compliance with the essentials of the PMDC and Accreditation Council for Continuing Medical Education and the rules and regulations of the Ziauddin University.



DIRECTORATE OF EDUCATIONAL DEVELOPMENT

The Directorate of Educational Development (DED) aims to enhance the quality of academic activities in all Higher Education Professions at ZU with a vision to bring recognition both at the national and international level through innovation, leadership, and Research. The scope of its activities includes:

- Review of undergraduate and postgraduate curriculum based on adult learning principles
- Capacity building of the faculty in innovative and student-centered methods of teaching, learning, and assessment.
- Consultations with all faculties and disciplines to address educational issues for better student learning .

The range of these services encompasses review of curricula, teaching, and assessment. To accomplish these tasks, DED works in collaboration with respective Deans, Principals, Associate Deans, Department Chairs, Programme Directors, and various committees on curriculum and assessment. Our main focus is on student centered learning by providing quality education in a conducive learning environment. To stay on par with international standards, DED has incorporated themes of Patient Safety and medical ethics into its curricula. To ensure the quality of programmes and to address any gaps, DED has conducted an institutional self-assessment of undergraduate medical and dental programmes according to the basic and quality standards of the World Federation of Medical Education (WFME).

DED promotes Faculty Development in educational methodologies as a mainstay of its mission by organizing and conducting educational workshops at the inter-professional level as a regular activity across institutions.

To promote the role of higher education teachers, faculty development courses are offered by DED on multiple platforms in different cycles. The aim is to engage teachers in the development of their teaching skills and to let them apply these skills to facilitate the process of student learning in a conducive learning environment.



DEPARTMENT OF RESEARCH

VISION

To be recognized as the icon of innovative cutting-edge basic applied and translational research.

MISSION

Advancing research and developing the University's reputation as the most renowned private sector academic research-based institution. Cutting-edge clinical and translational research- bringing medical innovation to patient care and industry. Promotion of independent research projects in all fields of degree-based programmes with a drive for lifelong learning through creativity, innovative research and commercialization, ensuring that research meets the highest ethical and quality standards through open and transparent process.

INTRODUCTION

Research excellence in all fields of study is central to the mission of Ziauddin University and a pinnacle priority, as the key element to the success of the University's academic profile needs to be preserved. Education at ZU would not be complete without its vital research community. The Health Sciences Research Program encompasses several faculties and departments across ZU campuses that contribute to a rich atmosphere. A wide range of research and clinical facilities for student learning and innovation are present on different campuses with extensive interaction between the basic science and clinical faculty. The Faculty of Health Sciences including the College of Medicine, Dentistry, Nursing, Rehabilitation, Speech-language & hearing sciences offer unparalleled opportunities for interdisciplinary cooperation in Speech-Language & Hearing Sciences education and research. The expertise of many Health Sciences faculty covers a broad spectrum of disciplines that includes both basic science wet-lab research and clinical research in human health and disease, with a provision of expanding graduate programmes to be offered in Medicine,

Pharmacy and Allied Health Disciplines. All are in the continued pursuit of ever-greater accomplishments in research through our commitment to innovation, excellence, and quality. We share new knowledge for educating and inspiring tomorrow's leaders as university education is all about the generation of new knowledge through research. Furthermore, ZU faculties maintain active research laboratories that are exploring existing questions, spanning from the most basic to the most translational aspects of health sciences.

MULTIDISCIPLINARY RESEARCH LABORATORY (MDRL)

The Department of Research maintains active research laboratories that are exploring existing questions, spanning from the most basic to the most translational aspects of health sciences research. The state-of-the-art research facilities comprises of multidisciplinary research laboratories (MDRL 1, 2 and 3) at Ziauddin University to support the research of undergraduate and postgraduate students of Ziauddin University with the provision of advanced instrumentation and guidance and supervision with provision of following facilities:

- Molecular Biology facility for DNA, RNA extraction, quantification, conventional and qPCR, gel electrophoresis
- Cell and Tissue Culture facility for cell lines and primary culture
- Stem cell culture facility
- Cryopreservation facility for cell lines
- Small animals handling and dissection facility
- Tissue Processing and Sectioning facility
- Animal house facility
- Imaging Facility with High-Resolution Microscopy
- Immunohistochemistry and Immunocytochemistry facility
- Proteomics facility
- Microbial Genomics facility
- Bioinformatics facility
- Animal House Facility
- Sample storage facility
- Sanger sequencing and NGS



INTERNATIONAL AND NATIONAL COLLABORATION

The Research Department's overarching aim in supporting international and national research collaboration is to maximize ZU's contribution towards knowledge generation and research enhancement. Following is the list of international and international collaborations:

- International Medical University, Malaysia
- Chapman University School of Pharmacy
- State University of New York at Stony Brook, USA
- University of Wisconsin School of Medicine, USA
- Suny Upstate Medical Center, Syracuse, NY, USA
- Al-Faisal University Riyadh, Kingdom of Saudi Arabia
- Department of Medicine and Lab Medicine, University of Ottawa, Canada
- Sheffield University, UK
- Dr. Panjwani Center for Molecular Medicine and Drug Research, Karachi, Pakistan.
- HEJ Research Institute of Chemistry, ICCBS, Karachi, Pakistan.
- Center for Bioequivalence Studies and Clinical Research (CBSCR), Karachi, Pakistan.
- National Center for Proteomics, Karachi, Pakistan.
- Jamil-ur-Rehman Center for Genome Research, ICCBS, Karachi, Pakistan
- Agha Khan University, Karachi, Pakistan
- Baqai University, Karachi, Pakistan
- Dow University of Health Sciences, Karachi, Pakistan

CORE LAB FACILITY SERVICES

Ziauddin University is offering core lab commercial services at an affordable cost to researchers. This includes RNA isolation, DNA isolation, cDNA synthesis, primer designing, conventional PCR, qPCR, RFLP, gel electrophoresis, gel imaging, nucleic acid sequence analysis, ELISA, HPLC, routine and specialized histological techniques, animal handling and dissection, tissue processing, staining, along with high-resolution microscopy and advanced imaging technology. Core personnel continue to stay abreast of technological advances. It is encouraged to contact research scientists to arrange for a consultation or to provide feedback. The faculty is available to develop projects of all calibre, standard or custom assay designs, and any other specialized application needs.

INTERNSHIP PROGRAMME

To promote science and technology capacity building, Ziauddin University as its intellectual and corporate social responsibility proudly runs the internship programme for indigenous and external students. This programme is designed and structured to target the students intending to pursue a career in research or higher learning by imparting knowledge and skills to inculcate analytical skills, critical thinking, wisdom and confidence in them. Our highly skilled faculty is engaged in training of scholars in the emerging fields of molecular medicine and genetics, molecular oncology, cell biology and histology, molecular diabetology, proteomics, stem cell culture, bioinformatics and microbial genomics. It is meant to provide scholars with the best opportunity to develop skills that promote their success during their graduate and post-graduate training and development of tools for conducting independent research in biomedical sciences.

RESEARCH COMMITTEES

Following research Committees operate for the supervision, monitoring and advocacy of research at ZU:

- Guidance and Examination Committee (GEC/RC)
- Ethical Research Committee (ERC)
- Clinical Research Committee (CRC)

WORKSHOPS/SEMINARS

The Department of Research is routinely organizing following workshops to promote the professional development of the faculty and student with capacity building in research, enhanced productivity and improved university ranking:

- Workshop on Research Methodology
- Hands-on Workshop on Cell Culture Techniques
- Hands-on Workshop on Fundamental Techniques in Molecular Biology
- Hands-on Workshop on Care and Use of Small Lab Animals
- Hands on workshop on Advanced Histology & microscopy
- Hands-on workshop on Bioinformatics and Computational Biology for the Beginners
- Public awareness seminar on Awareness and Education to Defeat Diabetes

PAKISTAN JOURNAL OF MEDICINE & DENTISTRY (PJMD)

PJMD is an open-access, peer-reviewed and quarterly scientific publication, launched in 2012, with a scope that covers all areas of Biomedicine and Dentistry. It is Indexed in HEC and PMDC CrossRef, COPE, ICMJE, IMEMR and PASTIC. It is Certified with International License Creative Commons Attribution-Non-Commercial-No-Derivatives 4.0. PJMD has successfully published 12 volumes and 49 issues up till 2023. The journal has a reputation for originality and quality and a fair and transparent review process dedicated to the swift publication of original research work.

FACULTY MEMBERS

Prof. Dr. Talat Mirza

MBBS, M.Phil., Ph.D. (Molecular Pathology)
Executive Director Research,
Meritorious Professor Pathology

Dr. Shumaila Usman

BS, Ph.D. (Molecular Medicine)
Assistant Professor,
Incharge Cell Culture lab

Dr. Ambrina Khatoon

B.Sc. (Hons.) M.Sc., Ph.D. (Biotechnology)
Assistant Professor
Ph.D. Coordinator,
Incharge Microbial Genomics and
Bioinformatics Lab

Dr. Rehan Imad

BSMT, Ph.D. (Molecular Medicine)
Assistant Professor
Incharge MDRL 1

Dr. Abdul Hameed

B.S., Ph.D. Postdoc (Japan)
Assistant Professor
Ph.D. Deputy Coordinator
Incharge Molecular Diabetology Lab

Dr. Yamna Khurshid

B.Sc. (Hons.), M.Sc., Ph.D. (Molecular
Medicine)
Assistant Professor
Incharge Proteomics Lab

STAFF MEMBERS

Mr. Moazzam Ali Shahid

M.Sc., M.Phil., Ph.D. (Scholar)
Research Officer

Ms. Saba Farooq

Assistant Manager
M.A Economics, M.Ed

Fariha Anum

Biostatistician
MSc – Statistics

Ms. Sadia Farrukh

M.Phil., PhD (Biochemistry)
Managing editor of PJMD

Ms. Tayyaba Rasool

M.Phil. Scholar
Assistant Editor PJMD

Mr. Aamir Khalil

Office Assistant



QUALITY ENHANCEMENT CELL

Ziauddin University has consistently led the way in embracing and implementing exemplary educational practices. The Quality Enhancement Cell (QEC) of Ziauddin University is firmly committed to ensure that all constituent colleges maintain the highest academic standards prescribed by accrediting bodies. Moreover, they are dedicated to continually enhancing the learning experiences of students.

The mission of the QEC at Ziauddin University is to propel the advancement of learning community by guaranteeing a perpetual enhancement in the quality of academic programs. This is achieved through rigorous accountability, meticulous policy review, systematic documentation, and comprehensive curriculum analysis. The ultimate goal is to identify and promote the adoption of best practices in the field of education.

At Ziauddin University, quality assurance is deeply ingrained in the principles of continuous improvement and actively involves all stakeholders. The QEC has cultivated a culture that recognizes the paramount importance of quality and quality assurance in the approval, monitoring, and periodic review of academic programs. The evaluation of academic programmes follows the HEC guidelines for self-assessment, ensuring thorough and standardized assessments. To ensure a proactive approach, an explicit follow-up procedure is in place to assess the actions taken by each program subsequent to the self-assessment process. Furthermore, the university conducts internal audits of academic and administrative departments to ensure compliance with the rigorous Quality Assurance Framework established by accrediting bodies.

The QEC takes the lead in spearheading the Institutional Performance Evaluation of Ziauddin University by the HEC. They bear the responsibility of meeting the HEC's stringent quality assurance requirements and providing the necessary data.

To remain at the forefront of advancements in the higher education sector and ensure continuous quality improvement, the dedicated staff of the QEC actively participates in national events organized by the HEC and other esteemed higher educational institutions in Pakistan. By

engaging with a wider education community, the QEC fosters an environment of collaboration and learning, thus contributing to the growth and development of the higher education landscape in Pakistan.

Accreditations

The Quality Enhancement Cell (QEC) at Ziauddin University plays a pivotal role in ensuring that all programmes offered by the university receive accreditation from the respective professional councils. This accreditation process is crucial as it not only certifies the quality of education but also enables students to obtain recognized degrees and licences to practice in their chosen fields.

Accreditation by the relevant professional councils serves as a validation of the university's commitment to maintaining high academic standards and providing students with a quality education that aligns with industry requirements. It also ensures that the degrees awarded by Ziauddin University hold weight and recognition within their respective industries and professions.

Student Feedbacks

Ziauddin University places a significant emphasis on the voices of its students, recognizing their invaluable role in shaping the quality of programs. Quality Enhancement Cell facilitates student to record their feedback. For this, a comprehensive Campus Management System has been implemented that allows students to provide feedback and suggestions online.

The Campus Management System serves as a vital platform for conducting various assessments, including online student course evaluations, teacher evaluation surveys, and faculty course review reports. Through these surveys and evaluations, students have the opportunity to express their thoughts and opinions about their educational experiences. The feedback gathered is meticulously analyzed, and improvements are promptly initiated based on the valuable insights provided by the students.

In addition to real-time feedback mechanisms, Ziauddin University also values the perspectives of its graduates, alumni, and employers.

Graduating students are encouraged to participate in surveys that assess the effectiveness of the programmes they have completed. Alumni surveys help in understanding the long-term impact of the university's education on their careers and personal growth. Employer surveys provide valuable insights into job readiness and skills of our graduates in the professional world.

The integration of these feedback mechanisms into educational processes of ZU demonstrates our commitment to continuous improvement. At Ziauddin University, the student voice is not only heard but actively used to shape the future of our programs, ensuring that we provide the highest quality education that meets the needs of our students and the demands of the job market.

Pakistan Qualification Register

The QEC offers invaluable services to Ziauddin University graduates by coordinating and managing the comprehensive data entry of all degree programmes into the esteemed Pakistan Qualification Register (PQR). The PQR, an online service provided by the HEC, guarantees the quality and international recognition of degrees/qualifications. It also facilitates seamless credit transfers, offers online degree attestation, and opens doors to national and international scholarships.

International Rankings

The Quality Enhancement Cell (QEC) of Ziauddin University plays a pivotal role in the University's pursuit of international recognition through various International Rankings. also

actively engages in various international rankings. These ranking have emerged as important benchmark, setting standards for institutional practices and reflecting institutional performance on a global scale.

Ziauddin University, through the dedicated efforts of its Quality Enhancement Cell (QEC), has achieved notable recognition in prestigious international rankings, including the Times Impact Ranking, Green Metrics, and QS International Ranking. In the recent UI Green Metric International Ranking, Ziauddin University secured a 202nd position most sustainable University in Asia, In QS Ranking secured 131th position in Southern Asia.

The QEC diligently gathers and provides the necessary data and information to the respective ranking organizations. Ensuring that Ziauddin University's achievement and contributions are accurately reflected. This includes quantitative data such as ranking positions, scores, and year-to-year improvements. By participating in these rankings, Ziauddin University aims to showcase its commitment to sustainability, societal impact, and academic excellence.

In essence, Ziauddin University's unwavering dedication to excellence in higher education is exemplified through the tireless efforts of its Quality Enhancement Cell. This commitment to quality assurance and continuous improvement positions the university as a beacon of academic excellence in Pakistan and beyond.

NATIONAL AND INTERNATIONAL RANKINGS



- Ranked **403rd** Most Sustainable University in the World.
- Ranked **205th** Most Sustainable University in Asia.
- Top **15th** Most Sustainable University in Pakistan out of 60 Universities.
- Top **6th** Private Sector Universities in Pakistan.
- Among **Top 2** Privates Sector Universities in Sindh.



- QS Asia University Rankings | 2023
- Ranked **501-550** in Asia.
 - Ranked **131** in Southern Asia.
 - Ranked **34th** in Pakistan.
 - Ranked **7th** in Sindh.
 - Ranked **6th** in Karachi.



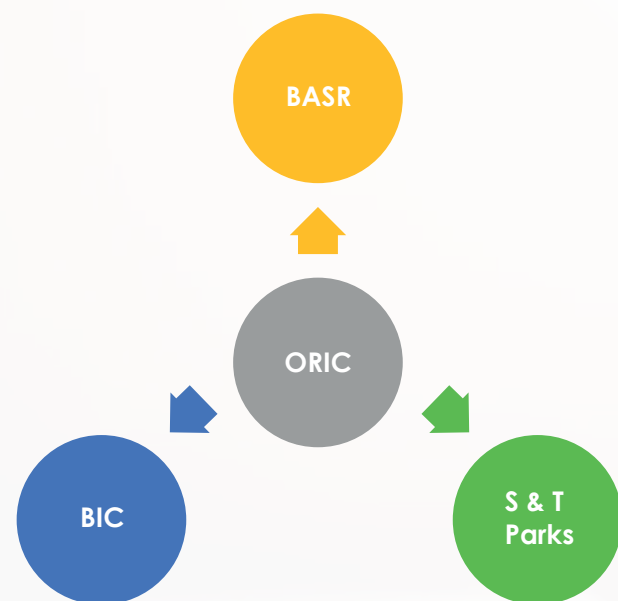
Overall Ranking	IN PAKISTAN THE RANKING IS 40TH and top 4th in sindh with other private sector Universities
SDG-3 Good Health & Well-being	Ranked 201-300 in the World, Top 3rd in Pakistan & 2nd in Sindh with other private sector Universities.
SDG-4 Quality Education	Ranked Top 10th in Sindh & Top 4th in Sindh with other private sector Universities.
SDG-5 Gender Equality	Ranked 201-300 in the World, Top 10th in Pakistan & 1st in Sindh with other private sector Universities.
SDG- 17 Partnership for the Goals	Ranked Top 7th in Sindh & Top 4th in Sindh with other private sector Universities.

OFFICE OF RESEARCH, INNOVATION & COMMERCIALISATION

Office of Research, Innovation and Commercialisation (ORIC) at Ziauddin University, is the centralised umbrella Directorate for research, innovation, commercialization and external collaborations. It strives to support high-quality applied research by developing linkages between Industry, Academia, Government and the Community. ORIC oversees activities related to research, publication conferences, workshops, international collaborations, industry affiliations and sustainability initiatives operational at the Ziauddin University, Karachi.

ORIC was established at the University in 2015 based on proposed guidelines of the Higher Education Commission (HEC), Islamabad for all Universities/DAIs of Pakistan, and is fully recognised and registered with HEC. The ORIC was officially notified by the HEC in October 2020. ORIC at Ziauddin University was established with an aim to provide strategic vision and operational support to the University's innovation & entrepreneurship ecosystem.

ORIC also aims to act as a catalyst for the transformation of knowledge towards innovation and its subsequent commercialisation leading to a positive impact on the welfare and well-being of our nation. In this regard it provides end to end services for all matters about research & development, innovation,



OBJECTIVES

- Developing strategic research directions and policies
- Increasing and diversifying research funding
- Strengthening university-industry relationships
- Promoting entrepreneurship and innovation
- Technology Transfer and commercialisation
- Sustainability and Internationalisation



ENTREPRENEURIAL SUPPORT SERVICES

Ziauddin University offers entrepreneurial support services to students through the Enterprise office which is under the umbrella of Office of Research, Innovation and Commercialization.

Business Incubation Services:

The enterprise office offers business incubation services aimed at nurturing and growing startups. The Office fosters a collaborative environment by organizing networking events, workshops, and seminars that connect startups with mentors, investors, and potential collaborators. Furthermore, comprehensive business development support, including assistance with business planning, market research, and strategy development, can help startups establish strong foundations.

Pre-incubation Services and Idea Validation:

For aspiring entrepreneurs who are in the early stages of idea formation, the Office can provide pre-incubation services. These services aim to validate business concepts and equip individuals with the necessary skills to succeed. To further prepare entrepreneurs, the Office can offer 3 months preincubation training programs covering essential entrepreneurial skills and guest speaker sessions.

Research and Innovation Society:

To foster a culture of innovation and collabora-

tion within the research and academic community, the Office has established a Research and Innovation Society. This society serves as a hub for knowledge sharing, idea generation, and collaboration. Activities within the society can include community-building initiatives, innovation challenges, hackathons, and seminars to facilitate the exchange of ideas and promote interdisciplinary collaboration.

Startup Mentorship:

Mentorship is a crucial component of entrepreneurial success. The Office can facilitate connections between startups and experienced mentors who can provide industry-specific guidance and advice. Networking events can serve as platforms for startups to meet potential mentors, investors, and strategic partners.

Funding and Investment Support:

Access to funding is critical for startup success. The Office can assist startups in identifying and pursuing startup grants, investor funding opportunities, and other financial resources. Additionally, the Office can facilitate connections with potential investors, venture capitalists, and angel investors to secure equity financing.

These services collectively contribute to a robust entrepreneurial ecosystem at Ziauddin, supporting the successful development of startups and innovative ideas.

RESEARCH OFFICE

Inclusive Research Initiatives:

ORIC actively promotes and supports inclusive research practices. We encourage students to participate in and contribute to these inclusive research efforts.

Assistance in Topic Selection:

We understand that choosing a research topic can be a critical first step in the research process. ORIC actively engages with students and faculty in brainstorming sessions to help identify impactful and relevant research topics.

Joint Projects and Collaborative Opportunities:

We facilitate joint research projects and collaborations with leading institutions, both nationally and internationally. These partnerships provide students with the opportunity to work on interdisciplinary research projects and gain exposure to a broader research community.

Regular Research Workshops:

ORIC organizes regular research workshops and training sessions to enhance students' research skills. These workshops cover topics such as research methodology, data analysis, scientific writing and lab skill-based workshops. They provide valuable guidance for students at all levels of their academic journey.

Exposure to Research Opportunities:

We provide students with exposure to research

opportunities from their early years of study. Whether you are an undergraduate or a graduate student, you will have the chance to engage in research projects that align with your academic interests and career goals.

Research Funding and Grants:

ORIC offers information and assistance regarding research funding and grants. We help students under supervision of faculty identify and apply for funding opportunities to support their research endeavours.

Research Mentorship:

Our experienced faculty members are available to mentor and guide students in their research pursuits. They offer valuable insights, share their expertise, and provide ongoing support to ensure the success of research projects.

Publication Support:

We encourage students to publish their research findings in reputable journals and conferences. Our office provides honorariums on the publication assists students in navigating the world of academic publishing.

Research Ethics and Compliance:

Ziauddin University is committed to upholding the highest ethical standards in research. We provide training and support to ensure that all research conducted at the university complies with ethical guidelines and regulations.



INTERNATIONAL OFFICE

The ORIC at ZU has also established the International Office for propagating Global presence of ZU brand. We are also member of multiple international organizations promoting academia and research. We are members of the Association of Commonwealth Universities, Talloires Network, Association of University Leaders for a Sustainable Future (ULSF) and International Association for Universities.



Services International Office offers students:

Scholarship Guidance:

Assisting students in finding and applying for scholarships, grants, and funding opportunities. The office also provides information on eligibility criteria and application deadlines for various scholarships and, guidance on preparing strong scholarship applications, including essays and recommendation letters.

Academic Linkages:

We facilitate academic collaborations and partnerships with institutions worldwide. The office also assists students in participating in joint degree programs or academic exchanges. Lastly, we connect students with

faculty advisors for research opportunities.

Student Exchange Programs:

Coordinating international exchange programs with partner universities. Helping students with the application process for exchange programs. Providing pre-departure orientations and support during the exchange period.

International Internships:

Assisting students in finding international internship opportunities. Providing guidance on visa requirements and work permits for internships abroad. Offering resources for securing internships in various fields and industries.

International Workshops and Conferences:

Promoting participation in international workshops, seminars, and conferences. Offering information on registration, travel arrangements, and funding options. Facilitating networking opportunities with experts in various fields.

Research Collaboration:

Supporting students in identifying research partners and collaborators abroad as well as facilitating the access to international research funding and grants.

SUSTAINABLY OFFICE

ORIC has developed a dedicated office to manage all activities which are in line with meeting sustainability priorities of United Nations. Sustainability Office oversees the universities progress towards sustainable development, including Green Initiatives. Services Sustainable Office offers students:

Environmental Education and Outreach:

Organizing workshops, seminars, and lectures on sustainability topics. Providing educational resources and materials related to environmental/ climatic issues. Promoting awareness campaigns on campus and in the community.

Green Campus Initiatives:

Managing and promoting eco-friendly campus programs and initiatives. Overseeing recycling and waste reduction efforts. Promoting energy conservation and sustainable transportation options.

Sustainability Grants and Funding:

Offering grants and funding opportunities for student-led sustainability projects. Assisting students in securing financial support for sustainable initiatives. Providing guidance on grant applications and project proposals.

Campus Sustainability Assessments:

Conducting sustainability assessments and audits of campus operations. Collaborating with students on research projects related to campus sustainability. Identifying areas for improvement and recommending sustainable solutions.

Sustainability Workshops and Training:

Offering training sessions on sustainable practices and skills. Teaching students about sustainable gardening, composting, and food systems. Providing certifications or badges for completing sustainability training programs.

Green Living Resources:

Offering guidance on sustainable living practices for students both on and off-campus. Providing information on eco-friendly housing, transportation, and lifestyle choices. Promoting sustainable purchasing and consumption habits.

Research and Innovation Support:

Assisting students in conducting research on sustainability topics. Providing access to resources and data for sustainability-related research projects. Encouraging innovation and creative solutions for sustainability challenges.



NATIONAL AND INTERNATIONAL LINKAGES

Ziauddin University is committed to forging partnerships with other universities, organizations, and corporations to further its mission of providing quality education to its students. The university has established strong relationships with leading universities and organizations around the world, including the University of Oxford, NHS, London, Monash University, Edinburgh University, and McMaster University. These partnerships allow Ziauddin University to expand its global reach and access new resources. Through these partnerships, the university can collaborate on research projects, share expertise, and access new technologies and resources. Additionally, these partnerships help Ziauddin University to attract students from abroad and provide them with a world-class education. Ziauddin University is also actively engaging in partnerships with local and international corporations. These partnerships allow the university to gain access to cutting-edge technologies and resources, and to provide students with opportunities for internships, jobs, and other career pathways. In addition to forging partnerships, Ziauddin University is actively involved in community service and other initiatives to benefit its students and the local and global community. By leveraging existing partnerships and forging new ones, Ziauddin University can make a positive impact on the world.



COLLABORATIONS

NATIONAL



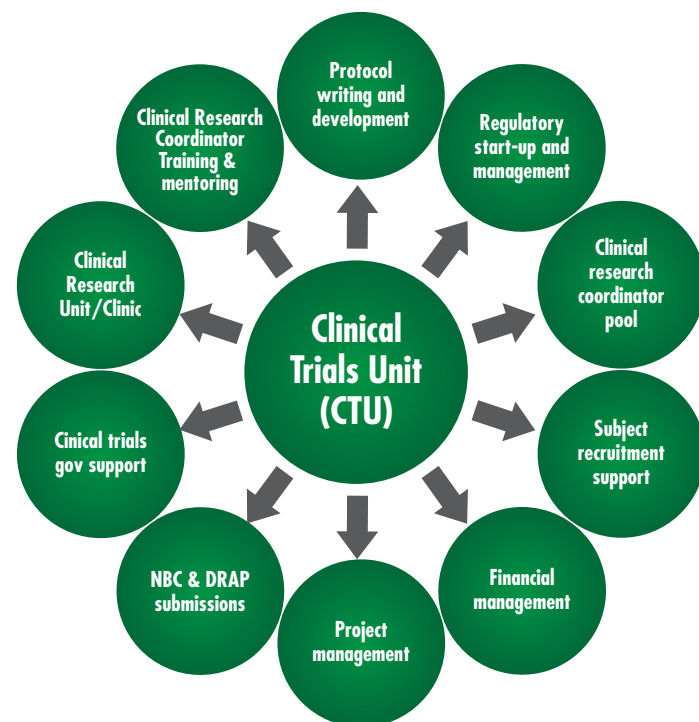
INTERNATIONAL



CLINICAL TRIAL UNIT

The Ziauddin Clinical Trial Unit is dedicated to conducting high-quality clinical trials across various therapeutic areas, adhering to international regulatory standards, and collaborating with researchers, clinicians, and industry partners. It serves as a dynamic hub where healthcare professionals, researchers, and industry experts collaborate to address crucial medical challenges and drive medical advancements. Equipped with cutting-edge infrastructure, dedicated facilities, and advanced technology, the CTU provides an optimal environment for rigorous trial execution and reliable clinical data generation. Upholding ethical guidelines, regulatory compliance, and participant safety is paramount, fostering trust among participants, sponsors, and the wider medical community. Through this prospectus, the CTU invites researchers, sponsors, and industry partners to collaborate and leverage its resources, offering comprehensive services throughout the clinical trial lifecycle. With a vision to contribute to scientific discoveries, enhance patient care, and shape the future of medical research and

innovation, the Ziauddin Clinical Trial Unit aims to be at the forefront of clinical research. The Clinical Trial Unit at Ziauddin was established in 2022 and holds recognition from the Drug Regulatory Authority of Pakistan (DRAP). This recognition by DRAP highlights the unit's compliance with regulatory standards and its commitment to conducting clinical trials in accordance with national guidelines. As an officially recognized clinical trial unit, Ziauddin is well-positioned to contribute to the advancement of medical research and innovation in Pakistan. By adhering to DRAP regulations, the unit ensures that all trials conducted within its facilities follow the necessary ethical and safety guidelines, thereby maintaining the integrity of the research process and protecting the well-being of trial participants. The Clinical Trial Unit at Ziauddin aims to conduct high-quality clinical trials, develop innovative therapies, contribute to evidence-based medicine, enhance patient care, and foster a culture of research and innovation among healthcare professionals.



ONGOING CLINICAL TRIALS

Sr. No	Trial Title	Principal Investigator	Co-Principal Investigator
1.	A Phase 3 Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Efficacy and Safety of Bemnifosbuvir in High-Risk Outpatients with COVID-19	Dr. Nida Hussain	Dr. Ashok Kumar
2.	A Double-Blind, Randomized Clinical Study of the Efficacy and Safety of BCD-178 and Perjeta® as Neoadjuvant Therapy of HER2-Positive Breast Cancer	Dr. Adnan Abdul Jabbar	N/A
3.	A Phase III, Randomized, Comparator Controlled, Double-Blind, Multicenter Study to Evaluate the Immunogenicity, Safety and Lot to Lot Consistency of Three Lots of a PIKA Rabies Vaccine (Vero cell) for human use, freeze-dried in Healthy Adults using a Post Exposure Prophylaxis Schedule	Dr. Osama Rehman Khalid	Dr. Fatima Jehangir
4.	A Phase 2, Open-Label Study to Assess the Safety and Efficacy of Bemnifosbuvir (BEM) and Ruzasvir (RZR) in Subjects with Chronic Hepatitis C Virus (HCV) Infection	Dr. Zaigham Abbas	N/A
5.	A multicenter, open-label, randomized, phase III clinical trial to evaluate efficacy and safety of XXX versus imatinib at 600 or 800 mg daily in adult patients with Philadelphia chromosome positive (Ph+) chronic myeloid leukemia (CML) in the chronic phase (CP) resistant to imatinib at daily doses of 400 or 600 mg	Dr. Amna Qamar Us Zaman	Dr. Reena Kumari
6.	A randomized, double-blind, placebo-controlled, multicenter phase III study to evaluate the efficacy and safety of ABX464 once daily for induction treatment in subjects with moderately to severely active ulcerative colitis	Dr. Zaigham Abbas	N/A
7.	Evaluating the use of an FDA cleared, novel vaginal speculum for gynecologic procedures	Dr. Rubina Hussain	Dr. Fatima Jehangir
8.	A Double-Blind, Randomized Clinical Study of the Efficacy and Safety of Monotherapy with BCD-264 and Darzalex® in Subjects with Relapsed and Refractory Multiple Myeloma	Dr. Amna Qamar Us Zaman	Dr. Reena Kumari
9.	A Phase 3 study, Randomized, Observer-blind, Multicenter Clinical Study to Evaluate the Efficacy, Safety and Immunogenicity of investigational Influenza Vaccine Compared to a High-Dose Quadrivalent Influenza Vaccine (Fluzone HD) in adults ≥ 65 Years of Age	Dr. Abbas Zafar	Dr. Uzma Ghouri
10.	Multicenter, randomized, controlled, open-label, phase IIb study to assess efficacy and safety of HH-003 injection in subjects with chronic hepatitis delta virus infection	Dr. Zaigham Abbas	N/A

CLINICAL STUDIES

Sr. No	Trial Title	Principal Investigator	Co-Principal Investigator
1.	Enabling ISARIC Clinical Characterization Protocol (CCP) rollout in LMICs ISARIC funded by University of Oxford/Wellcome Trust	Dr. Madiha Hashmi	N/A
2.	The Mega Randomized Registry Trial Comparing Conservative vs. Liberal Oxygenation Targets (Mega-ROX) funded by MRINZ	Dr. Madiha Hashmi	N/A
3.	Randomized Evaluation of COVID-19 Therapy ISRCTN: ISRCTN50189673 EU Clinical Trials Register: EudraCT 2020-001113-21 Clinical Trials.gov: NCT04381936 RECOVERY) funded by University of Oxford	Dr. Madiha Hashmi	N/A
4.	Medical Masks versus N95 respirators to prevent 2019 Novel Coronavirus Disease (COVID-19 N95 Vs MM) funded by McMaster University	Dr. Madiha Hashmi	N/A
5.	Randomized, Embedded, Multifactorial Adaptive Platform trial for Community Acquired Pneumonia including COVID 19 (REMAP CAP+ Pandemic) in Pakistan (REMAP-CAP) funded by Monash University	Dr. Madiha Hashmi	N/A
6.	Oxygen requirements and approaches to respiratory support in patients with COVID-19 in low-and middle-income countries (O2CoV2) funded by WHO	Dr. Madiha Hashmi	N/A
7.	Clinically-Oriented Antimicrobial Resistance Surveillance Network for Healthcare-associated (ACORN-HAI) funded by National University of Singapore / Wellcome Trust	Dr. Osama Rehman Khalid	N/A
8.	Genetics of Mortality in Critical Care (GenOMICC) funded by University of Edinburgh	Dr. Madiha Hashmi	N/A

UNIVERSITY POLICIES

REFUND POLICIES

Refund of fee will be according to the following rules.

Condition:

*Withdraw before commencement of classes
Refund of full tuition fee

*Within 45 days of commencement of classes
Refund of Half tuition fee

*After 45 days of commencement of classes
No refund.

STUDENT COUNSELLING

Counselling is provided by a professional counselor and staff member. This counseling is designed to assist student in resolving personal problems that are interfering with their academic progress and success. Such problems might include difficulty in adjusting to college, family concerns and/or low self-esteem

CODE OF CONDUCT

Student are expected to observe generally accepted standard of conduct the University reserve the right to exclude any student whose conduct is injurious to the University.

FINANCIAL POLICY

Student seeking admissions to Ziauddin University are expected to pay the fees approved by the Governing body of the University. Admission fee is submitted only once at the time of

admission to the first year. For subsequent year, students are required to pay only the tuition fee. For local student, all fees are paid in Pakistani currency, and for overseas student all fees are paid in US dollars. Parents/guardian are advised to ensure that fee for each academic year is paid within the due date. The University reserves the right to cancel admission if the fee is not paid within the due date. Students who repeat the year due to failure or otherwise are required to pay the tuition fee for the year/s being repeated.

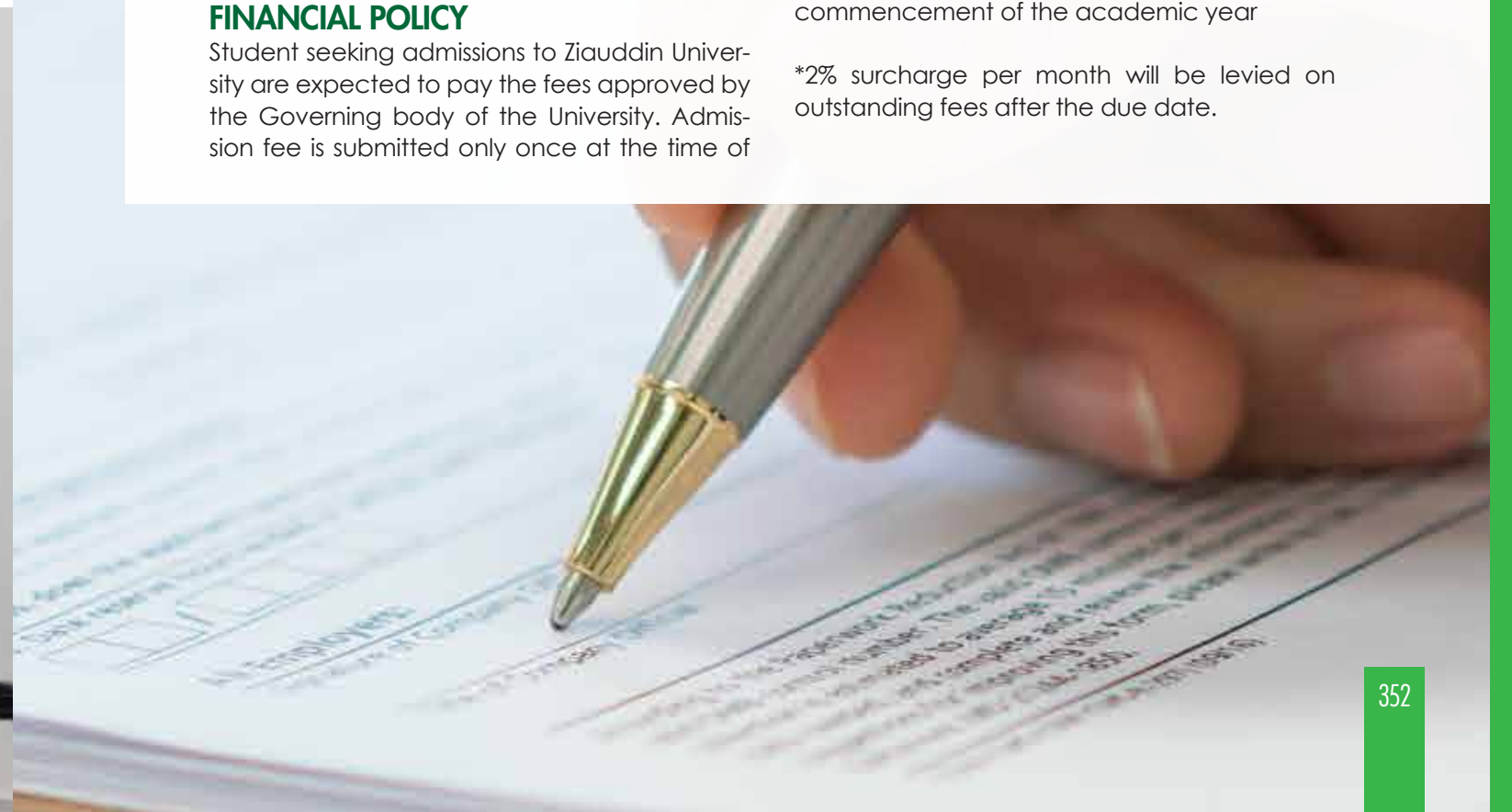
The University does not handle cash or personal cheques. Fees must be paid in the form of pay order payable to Ziauddin University. Late fee charges will be levied as per university policy after due date

FINANCIAL AID

The University provides this facility to limited number of candidates based on merit and individual needs. Each case is treated on individual basis and decisions are made by the financial aid Committee.

*ALL dues needs to be paid within 2 weeks of commencement of the academic year

*2% surcharge per month will be levied on outstanding fees after the due date.



EXTRA CURRICULAR ACTIVITIES



DEPARTMENT OF STUDENT AFFAIRS

INTRODUCTION

At higher education institutions, the holistic development of students encompasses not only their academic pursuits but also their mental growth and physical well-being. Recognizing this responsibility, universities establish dedicated departments known as Student Affairs to organize and manage various student activities. The Student Affairs department plays a pivotal role in planning events and workshops that are not only enjoyable but also highly beneficial for students, equipping them with the necessary skills to face challenges in the practical world.

In today's professional landscape, certain skills such as public speaking and critical thinking have become indispensable in numerous job roles. The Student Affairs department facilitates the development of these skills by encouraging students to participate in co-curricular and extracurricular activities. These activities provide a platform for students to enhance their communication abilities, hone their analytical thinking, and cultivate their overall personality.

At Ziauddin University, the Student Affairs department goes above and beyond in promoting student growth and development. A diverse range of extracurricular activities, professional workshops, and seminars are conducted to facilitate students' capacity building, grooming, and confidence building. These initiatives are specifically designed to empower students with the skills and knowledge required for their personal and professional success.

Moreover, the Student Affairs department at Ziauddin University is committed to providing a comprehensive and enriching educational experience beyond the classroom. By organizing a wide array of extracurricular activities, professional workshops, seminars, and offering career guidance, the department aims to foster well-rounded individuals who are prepared to thrive in the dynamic world outside academia.



OBJECTIVES

Student affairs aims to support and empower student societies at Ziauddin University. This involves assisting them in organizing events that align with their constitution and objectives, providing necessary resources and guidance.

Student affairs actively seeks out and values student opinions on various matters of concern. This includes creating channels for feedback, conducting surveys, and engaging in dialogue with students to understand their perspectives.

Advising the administration Student affairs serves as a bridge between the student body and the university administration. They provide advice and recommendations to the administration on matters that impact students, ensuring that student voices are considered in decision-making processes.

Student affairs focus on establishing and maintaining strong communication and relations between students and the administration. They act as a liaison, facilitating effective dialogue, and addressing concerns or issues raised by students.

Student affairs plays a role in providing feedback and suggesting amendments to

university policies. They work towards creating a better atmosphere for students by advocating for policies that promote student well-being, academic success, and overall satisfaction.

Student affairs is responsible for assisting students with their queries, problems, and concerns. They provide guidance, resources, and support to help students navigate academic, personal, or administrative challenges.

Student affairs promotes and ensures accountability within the student societies. They establish guidelines and expectations for society's activities, monitor their functioning, and take appropriate action, if any issues arise.

Student affairs arranges frequent extracurricular activities for students. These activities enhance the overall student experience, promote engagement, and provide opportunities for personal growth, skill development, and social interaction outside the academic setting.

Overall, the objectives of student affairs at Ziauddin University revolves around supporting students, advocating for their interests, facilitating their engagement and growth, and fostering a positive and enriching university experience.

STUDENT LIFE

INTRODUCTION

The Department of Student Life at Ziauddin University holds the responsibility of ensuring peaceful and productive daily interactions among all students. They are entrusted with various tasks that contribute to creating a conducive learning and living environment for students.

One of their key roles is the establishment and administration of student councils. These councils serve as representative bodies that voice the concerns and interests of students. They provide a platform for students to engage in decision-making processes, collaborate on initiatives, and contribute to the improvement of campus life.

The Department of Student Life also holds the authority to judge infractions and enforce disciplinary measures when necessary. They maintain oversight over student conduct and ensure that rules and regulations are followed, fostering a safe and respectful environment for everyone.

Engaging with various institutes is another responsibility undertaken by the Department of Student Life. They negotiate and interact with external organizations, institutes, and sponsors to create partnerships and opportunities that benefit students. This includes arranging internships, workshops, guest lectures, and other collaborative ventures that enrich students' educational journeys.

At Ziauddin University, campus involvement is highly encouraged and valued. The Department of Student Life recognizes that active participation in extracurricular and literary societies has a significant impact on personal growth. These societies provide students with a platform to explore their interests, enhance their talents, and develop valuable skills. With a wide range of more than eight student societies on campus, students have ample opportunities to find a place in one or more of these societies, further enriching their university experience.

STUDENT SOCIETIES AT ZIAUDDIN UNIVERSITY

WELFARE AID FOR ILL AND DEPRIVED

The Welfare Aid for Ill and Deprived is a student-based non-profit organization at Ziauddin



University. It was established based on the recognition that many patients were unable to afford necessary medical care, leading to a decline in their overall well-being. The primary objective of this society is to provide financial support to underprivileged patients at the KDLB campus of Ziauddin Hospital. Over time, the society has expanded its services to include patients in other healthcare institutions such as Civil Hospital, Jinnah Postgraduate Medical Centre (JPMC), and Ziauddin North Campus.

The society undertakes various activities to raise funds and awareness for its cause. The activities are:

1. BIKEATHON

Bikeathon, where the Welfare Aid collaborates with Critical Mass Karachi, a cycling community. The Bikeathon involves a 25-kilometer cycling marathon, with all participating cyclists wearing red ribbons to symbolize and emphasize the importance of heart health. This event serves as a platform to generate funds and spread awareness about society's mission.

2. ANNUAL BLOOD DRIVE

Welfare Aid holds an annual Blood Drive event where students and staff come together to donate blood. In a specific instance, 72 pints of blood were donated, potentially saving 216 lives. The Blood Drive serves as a platform for the university community to contribute to the well-being of others by providing a vital resource that can make a significant difference in medical emergencies and treatments.

3. SURGICAL SKILL WORKSHOP

Welfare Aid, a student-based non-profit organization at Ziauddin University, every year organized a successful Surgical Skills Workshop. The workshop aimed to provide participants with hands-on training in various suturing techniques.

4. THE ANNUAL BAKE SALE:

The Annual Bake Sale organized by the welfare aid was a resounding success, generating a net profit of Rs. 102,103. The funds raised through the bake sale were dedicated to supporting the treatment of patients at Ziauddin University Hospital, Kemari.

Fundraising events like the bake sale not only provide financial support but also raise awareness about the healthcare challenges faced by individuals who require treatment but lack the necessary resources. The success of the bake sale highlights the empathy, compassion, and collective effort of the Ziauddin University community in addressing these challenges and supporting those in need.

5. RATION DRIVE

Welfare Aid, conducted an annual Ration Drive in the month of Ramadan with the aim of providing assistance to those in need during the month of Ramadan. The drive was successful in collecting Rs. 240,000 in funds, which were dedicated to purchasing essential food supplies.

Through the Ration Drive, Welfare Aid was able to support 116 families.

6. ZU- P.S.S:

Ziauddin Public Speaking (ZU-PSS) is a platform at Ziauddin University that encompasses three different fronts: Model United Nations (MUNs), declamation, and parliamentary style debating competitions. These three components provide students with opportunities to enhance their public speaking skills, critical thinking abilities, and understanding of global issues. One of the mega events organized by the ZU-P.S. S is ZUDC – Ziauddin University Debating Competition.

ZIAUDDIN UNIVERSITY DEBATING CHAMPIONSHIP

The Ziauddin University Debating Championship is an esteemed annual event that recognizes and celebrates exceptional speakers. This championship has produced numerous skilled debaters who have represented Pakistan at prestigious international competitions such as the World Schools Debating Championship (WSDC), World Universities Debating Championship (WUDC), and European Schools Debating Championship (ESDC).

Held in February, the Ziauddin University Debating Championship welcomed participants from schools (O-levels and A-levels) and universities, offering an intense parliamentary debating program. Teams competed on a wide range of topics, including politics, community, economy, and various other themes.

The fourteenth edition of the championship took place over three days, from February 3rd to 5th February, 2023.

With over 100 participants representing institutions from across Karachi, the competition was highly competitive. Notable schools and universities, including Karachi Grammar School, The Lyceum School, Nixor College, Cedar College, St. Patrick's High School, Haque Academy, Habib University, Jinnah Sindh Medical University, Institute of Business Administration, Dow Medical College, Szabist, and Beaconhouse Jubilee, as well as private teams from Hyderabad and seasoned debaters, gathered under one roof for the event. Additionally, a team from Ziauddin University itself also participated.

The Ziauddin University Debating Championship not only provides a competitive platform for students to showcase their debating prowess but also fosters critical thinking, effective communication, and teamwork. It serves as a testament to the university's commitment to promoting intellectual growth and nurturing future leaders in public speaking and debate.

ZIAUDDIN E BATTLES (ZEB)

Ziauddin E Battles (Z.e.B) is a student society at Ziauddin University that focuses on promoting online gaming and organizing e-gaming competitions. The society aims to create opportunities for students to engage in computer and console



gaming as a form of recreation and entertainment. The society organizes gaming tournaments, both online and offline, where students can showcase their gaming prowess and compete against their peers. These competitions are designed to foster a sense of camaraderie, healthy competition, and sportsmanship among participants. By participating in Z.E.B events, students have the opportunity to engage with fellow gamers, form teams, and develop their gaming skills.

ZIAUDDIN LITERARY AND CULTURAL SOCIETY (ZLCS)

Ziauddin University's Ziauddin Literary and Cultural Society (ZLCS) recognizes the importance of a well-rounded university experience that goes beyond academic pursuits. ZLCS is dedicated to keeping the student body active, engaged, and entertained through a diverse range of extracurricular activities.

One of the key areas of focus for ZLCS are qawwali night, bonfire, musical night, comedy night, movie night, annual picnic and annual dinner.

1. QAWALI NIGHT:

The Qawali Night Sham-e-Suroor organized by the Office of Student Affairs and turned out to be a remarkable event that will be remembered for years to come. The enthusiastic response from the students, as they left the venue chanting "once more," and the broad smiles on their faces showcased the success of the event.

2. BONFIRE:

The month of January was full of eventful and memorable days for the students of Ziauddin University. The Bonfire night organized by Ziauddin Literary and Cultural Society was a memorable and significant occasion for the students of Ziauddin University. It combined the elements of entertainment, community engagement, and philanthropy, creating a truly remarkable and enriching experience for all attendees.

3. MOVIE NIGHT:

Ziauddin University recently organized a spectacular Movie Night for its students, providing them with an enjoyable and entertaining experience. The event aimed to bring together students from different faculties and provide a refreshing break from their academic pursuits.

Throughout the movie, laughter, gasps, and moments of shared emotions could be heard as the students immersed themselves in the storyline. The movie night provided a perfect opportunity for students to relax, escape from their daily routines, and enjoy a few hours of entertainment with their peers.

ZIAUDDIN ADVENTURE SOCIETY (ZAS)

The Ziauddin Adventure Society (ZAS) is a student-led organization that aims to encourage students to participate in outdoor activities and explore the wonders of nature. ZAS organizes a variety of adventurous excursions that provide a break from the routine university life and offer thrilling experiences to its members.

Notable trips organized by ZAS was Gorak Hill Trip, Churna Island Trip and Up North Trips.

ZIAUDDIN COMMUNITY SERVICE (ZCS)

Ziauddin community service was established to cater to the needs of underprivileged community around the vicinity of all campuses of Ziauddin in order to serve the vision: "giving back to community".

VOLUNTEER FORCE AGAINST HEPATITIS TRANSMISSION (VFAHT)

Volunteer Force against Hepatitis Transmission. This society aims to provide the perfect forum for the students of Ziauddin University to contribute towards the benefit of their community and the underprivileged. The planned activities that would not only improve their communication and leadership skills but urge them to think creatively to tackle the problem of Hepatitis Prevention, skills which are invaluable for their future prospects in both professional and personal lives.

IEEE

IEEE Student Branch is a society which gives students the opportunity to meet and learn from fellow students, as well as faculty members and professionals in the field. An active IEEE Student Branch can be one of the most positive elements in a department offering programmes in IEEE designated fields of Engineering, Computer Science and Information Technology.

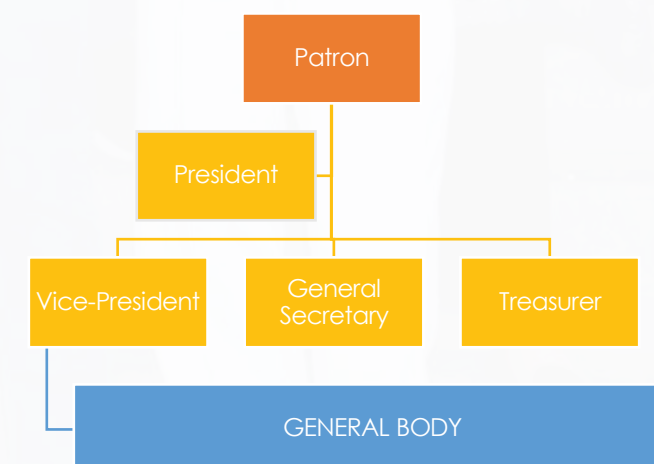


STUDENT COUNCIL AT ZIAUDDIN UNIVERSITY:

Ziauddin University recognized the importance of student representation and engagement in decision-making processes, which led to the establishment of individual student councils in 2018. These councils were formed regardless of the size or student population of each college within the university. Since their inception, these student councils have played a vital role in organizing and executing various extracurricular and co-curricular activities in collaboration with the college administration and the Student Affairs Department.

The formation of these student councils has provided a platform for students to actively participate in shaping their college experience. It has empowered them to voice their concerns, propose initiatives, and contribute to the overall development and enhancement of their college community.

The student councils undertake a wide range of activities, including organizing events, workshops, seminars, and community service projects. These initiatives not only foster a sense of belonging and camaraderie among the student body but also provide opportunities for personal growth, leadership development, and the exploration of new interests.



STUDENT COUNCIL AT ZIAUDDIN MEDICAL COLLEGE

1. MBBS ORIENTATION:

On February 8th, 2023, the MBBS Student Council, under the supervision of the Office of Student Affairs (OSA), organized an orientation event for the incoming batch of 2028 at Ziauddin University. The aim of the event was to welcome the new students and familiarize them with the university's environment and various student societies.

2. ZU BAITHAK:

ZU Baithak, a highly anticipated signature event, was hosted by the student council MBBS on May 26, 2023. The event aimed to celebrate and showcase the rich cultural heritage of our society. It provided a platform for students to immerse themselves in a traditional function deeply rooted in our culture.

The venue was beautifully adorned with a Farsi setup, creating an enchanting atmosphere for the attendees. The theme of the evening revolved around white and pastel colors, adding elegance and grace to the overall aesthetic.

3. THALF:

Thalf is an eagerly anticipated tradition celebrated by the third-year MBBS batch at Ziauddin University, marking their milestone of completing 2.5 years of medical school. This unique event holds special significance as it is the only collective event where the entire MBBS batch comes together to organize a week-long series of events, taking complete ownership of planning and execution. The Thalf committee, comprised of members from the Student Council and students from the third-year class, dedicated months of planning to make this year's Thalf a memorable experience.

STUDENT COUNCIL AT ZIAUDDIN COLLEGE OF DENTISTRY:

1. GUEST SPEAKER SESSIONS:

The student council of College of Dentistry at Ziauddin University organized a highly anticipated guest speaker session to enrich the educational experience of its students. The session aimed to provide valuable insights, knowledge, and inspiration from experts in the field of dentistry.

The event took place in a designated venue within the university campus, where students, faculty members, and esteemed guests gathered to participate in the session. The guest speaker, a renowned professional in the field of dentistry, was invited to share their expertise and experiences with the audience.



2. FRESHERS DAY:

Fresher's Day 2023, organized by the Office of Student Affairs and the BDS Student Council, was a memorable and exciting event for the Batch 14 students of the College of Dentistry, Speech Language, and Podiatry Medicine at Ziauddin University. Held on March 14th, 2023, the day was designed to welcome and integrate the new students into the university community.

3. WELLNESS AND FITNESS WORKSHOP:

The Office of Student Affairs and the Student Council BDS took the initiative to organize a "Posture Prescription Workshop" on May 19th, 2023, specifically designed for the students of the College of Dentistry. The aim of the workshop was to raise awareness about the potential consequences of postural problems in dentistry and provide practical guidance on how to address these issues through simple exercises.

STUDENT COUNCIL AT ZIAUDDIN COLLEGE OF REHABILITATION SCIENCES

1. BEYOND THE SEA

The Office of Student Affairs, in partnership with the Student Council of the College of Rehabilitation Sciences at Ziauddin University, organized the Annual Picnic titled "BTS: Beyond The Sea" The venue for the picnic was Turtle Beach, Hutastic, providing a scenic and serene setting for the event.

The Annual Picnic served as an opportunity for students from the College of Rehabilitation Sciences to come together, relax, and enjoy a day filled with fun activities and bonding experiences. It aimed to provide a break from the academic routine and create a memorable day of leisure and recreation.

STUDENT COUNCIL AT COLLEGE OF MEDICAL TECHNOLOGY:

1. THE NOON LIGHT DELIGHT:

The Student Council of the Medical Technology department organized a memorable event called "The Noontime Delight." This event served as a farewell for the graduating Batch 2 students and a warm welcome for the incoming Batch 6 students. The venue chosen for this special occasion was the Bellagio Banquet, creating a sophisticated and celebratory ambiance.

"The Noontime Delight" was a classic lunch event, carefully planned and executed by the dedicated members of the Student Council. The purpose of the event was to honor the achievements and contributions of the departing Batch 2 students while extending a warm reception to the new Batch 6 students, who were just beginning their journey in the field of Medical Technology.

2. THE BEACH BASH:

The Student Council of Medical Technology organized an exciting picnic for the students of the college. The event, named "Beach Bash 3.0," at Huttastic, Turtle Beach.

"Beach Bash 3.0" aimed to provide a day filled with fun, relaxation, and camaraderie for the students of Ziauddin College of Medical Technology. Turtle Beach, with its scenic beauty and serene atmosphere, served as the perfect venue for this memorable outing.



STUDENT COUNCIL ZUFESTM

1. ALOHA NOVATO 2.0:

The Student Council of ZUFESTM organized an exciting event titled "Aloha Novato 2.0." The purpose of the event was to welcome the incoming freshmen and bid farewell to the graduating seniors.

"Aloha Novato 2.0" brought together over 420 students from various departments. The event aimed to foster a sense of community and camaraderie among the students, providing them with an opportunity to interact and create lasting memories.

DEPARTMENT OF SPORTS

OVERVIEW

The vision of the Ziauddin University sports department is to have a positive impact on the students through programmes that endorse sports leadership, wellness, teamwork and ethics.

These activities have a profound effect on the physical fitness and mental health of the students. In this regard, ZU Sports Department provides full encouragement and a conducive environment for sports activities and programmes intended to teach the youth how to communicate, coordinate and maintain discipline.

OBJECTIVES

- Manages facilities (ZU Mini Sports Complex and ZU Health and Fitness Centre), its costs, renovation, hiring, equipment, etc. and ensures a productive work environment, maintaining an inventory of all equipment and supplies.
- Makes sure every ZU Department receives an adequate supply of sports equipment.
- Manages uniform ordering, and issuing of equipment and stock.
- Prepares and maintains an annual sports calendar of all departments.
- Enforces sports-related policies and procedures, and follows sports formats linked to major competitions.
- Provides and manages all sports facilities in the Clifton and North Nazimabad departments.



ACTIVITIES HELD UNDER SPORTS DEPARTMENT

Participation of National and Regional level 2022 to 2023

- HEC (Participated in Badminton Zone 'L' 2022)
- HEC (Participated in Football Zone 'G' 2022)
- HEC (Participated in Basketball Zone 'L' 2022)
- HEC (Participated in Hockey Zone 'L' 2023)
- HEC (Participated in Football Zone 'L' 2023)
- Participated in Habib University for Basketball, Table Tennis & Lawn Tennis 2023
- Participated in 3rd LAW Students League 2022
- Participated in Suffa University for Basketball 2022
- Participated in AKU Football Championship 2023
- Participated in 4th LAW Students League 2023
- HEC (Participated in Cricket Hard ball Tournament 2023)
- HEC (Participated in Football HEC National Championship 2022)
- HEC (Participated in Kamyab Jawan Sports Gala Athletic Event 2022)
- Ziauddin Cup Inter Departmental Sports Gala 2022
- Dr Ijaz Fatima Memorial Futsal Inter University Championship 2022
- Fast Sports Olympiad 2022
- Bharia T-20 Hardball Championship 2022
- Azadi Cup Soccer Championship 2022

INTER COLLEGIATE/DEPARTMENTAL ACTIVITIES 2022 TO 2023

- 4th ZU Throw ball Championship
- 4th ZU Football Championship
- 2nd ZU Basketball Championship
- 2nd ZU Volleyball Championship
- 1st ZU Women's Table Tennis Championship
- ZCRS Sports Week
- 1st ZU Women's Badminton Championship
- MT Sports Week
- 2nd ZU Foosball Championship
- 1st Ramzan Lawn Tennis Tournament 2022
- 3rd ZU Ramzan Futsal Championship 2022
- 3rd ZU Ramzan Night Cricket Tournament 2022
- 2nd ZU Table Tennis Championship 2022
- 4th ZU Cricket Championship
- 3rd ZU Men's Badminton Championship
- ZUFESTM Sports Week





SPORTS CALENDAR MAY 2023 - DECEMBER 2023

SR.#	DATE	SPORTS	EVENTS	VENUE	AVAILABLE DEPARTMENTS
1.	7 th May 2023	ZU Boys Futsal	ZU Boys Inter Department Futsal Champions League	ZU Clifton Campus	Nursing, Animal Science, MBBS, ZCRS, M.T, BDS, FOP, EM, Nursing, FLAHS, ZUFESTM, ZFL, Zcoms
2.	3 rd 4 th June 2023	Boys & Girls Throwball	ZU Inter Department Boys & Girls Throwball Championship	ZU Clifton Campus	Nursing, Animal Science, MBBS, ZCRS, BDS, ZUFESTM ZFL, FOP, EM, FLAHS, Zcoms, Speech Language
3.	5 th July 2023	Boys Volleyball	ZU Inter Department Boys' Volleyball Championship	ZUFESTM North Campus	Nursing, Animal Science, MBBS, ZCRS, M.T,BDS, FOP, EM, FLAHS, Zcoms, Speech Language
4.	15 th July 2023	Sports Day	Nursing Sports Days	ZU Clifton Campus/Neutral Venue	College of Nursing
5.	7 th – 10 th August 2023	Boys & Girls Sports Gala	ZU Azadi Sport Gala 2023	ZU Link Road Campus	Animal Science, ZCRS, M.T, FOP, ZUFESTM,
6.	11 th September 2023	Boys & Girls Badminton	ZU Boys & Girls Badminton Championship	Sindh Sports Board	Nursing, Animal Science, MBBS, Speech Language, ZUFESTM, ,MT, BDS,ZFL, FOP, EM, FLAHS, Zcoms
7.	25 th September 2023	Boys Basketball	ZU Inter Department Boys Basketball Championship	ZU Clifton Campus	Zcom, FLAHS, EM, FOP, ZUFESTM, BDS, ZCRS, MBBS, Nursing, Animal Science.
8.	16 th – 20 th October 2023	Boys Cricket	ZU Inter Department Boys Cricket Championship	UBL Sports Complex	Nursing, Animal Science, MBBS, Speech Language, ZUFESTM, ZCRS, MT, BDS,ZFL, FOP, EM, FLAHS, Zcoms
9.	19 th -20 th November 2023	All Sports	ZU Mega Sports Gala 2023	ZU Clifton Campus	Nursing, Animal Science, MBBS, Speech Language, ZUFESTM, ZCRS, MT, BDS,ZFL, FOP, EM, FLAHS, Zcoms
10.	2 nd December 2023	Boys & Girls Athletics	ZU Inter Department Foosball Championship	ZU Clifton Campus	Nursing, Animal Science, MBBS, Speech Language, ZUFESTM, ZCRS, MT, BDS,ZFL, FOP, EM, FLAHS, Zcoms
11.	4 th – 15 th December	Boys Hardball Cricket	5 th Law Student Cricket League Trials & Practice Matches for Faculty of Law	UBL Cricket Ground/ Nadi al Burhani Cricket Ground	Only for Law Department
12.	28 th - 29 st December 2023	Law Hardball Cricket League	5 th Law Student Cricket League Organized by Justice Helpline	Neutral Venue	Only for Law Department

FOR FURTHER DETAILS CONTACT:

Sports Department: (Ext: 2270)
Deputy Director Sports
Shaheen Fatima - 03002200685
Sports Manager
Zubair Ishaque - 03212102489
Assistant Sports Coordinator
Mohammad Khan - 03002121407