

DISCOVER
YOURSELF
INSPIRE
POSTERITY



PROSPECTUS

2022-23

ACCREDITATION

Higher Education Commission - HEC
Pakistan Engineering Council - PEC
Pakistan Medical Commission - PMC
Pakistan Bar Council - PBC
Pakistan Nursing Council - PNC
Pharmacy Council of Pakistan - PCP
Pakistan Council of Architects & Town Planners - PCATP
National Computing Education Accreditation Council - NCEAC
National Business Education Accreditation Council - NBEAC
National Technology Council - NTC
National Agricultural Education Accreditation Council - NAEAC

AFFILIATION

National

Ministry of National Health Services, Regulations and Coordination
College of Physicians and Surgeons, Pakistan
Punjab Healthcare Commission

International

World Health Organization (WHO)
World Federation for Medical Education (WFME)
Education Commission for Foreign Medical Graduates (USA)
Medical Board of California (USA)
General Medical Council (UK)
Overseas Registration Examination, UK
Australian Dental Council
International Medical Education Directory (FAIMER)



For more information visit: www.uol.edu.pk

Vision & Mission



Vision

To become a world-class university characterized by its excellence and contribution to society through Education, Research, Entrepreneurship, and Internationalization.

Mission

The University of Lahore strives to achieve the following mission goals in pursuance of UOL vision:

- Pursue and deliver academic excellence in every aspect of our endeavors
- Reinforce the culture of research, innovation and commercialization
- Produce graduates to become future ready leaders through lifelong learning experience
- Improve sustainability of the ecosystem which is vital for ensuring social and environmental wellbeing of society
- Promote global flow of ideas, students and scholars through comprehensive internationalization

Message from Patron-in-chief (Ibadat Educational Trust)



“I welcome the knowledge seekers and professionals to experience the enjoyable and congenial environment at our university.”

My heartiest welcome to all the continuing and prospective students of this prestigious and renowned University, The University of Lahore (UOL), established in 1999 with the vision of becoming a world class educational institution fulfilling all the learning needs of the students. The state-of-the art facilities/infrastructure capable of offering innovative and quality training in a conducive and highly developed learning environment have partially contributed to its current status of being the largest private sector University in Pakistan.

The university became a Degree Awarding Institution through a Charter by the Government of Punjab in 2002 and the Higher Education Commission (HEC) positioned it in the highest “W-4” category nationwide. Internationally, the UOL is ranked amongst the top 301-350 universities of the world by Times Higher Education Emerging Economics University Ranking 2019. Such a status has been achieved through dedicated efforts of the Ibadat Educational Trust (IET), the Board of Governors, teaching faculty and the management of the University as a whole.

It is pertinent to mention that the regulatory bodies of the Government of Pakistan that include Higher Education Commission of Pakistan, Pakistan Medical Commission (PMC), Pakistan Engineering Council (PEC), Pakistan Nursing Council, Pakistan Bar Council, Pharmacy Council of Pakistan etc. have accredited all our professional programs. The university, thus, fully adheres to all the required guidelines in the best interest of the institution and the students.

The degree programs offered cater for the phenomenal changes unleashed by the rapid advancement in science and technology as well as meeting the challenges posed by globalization. With its professional competence, commitment and dedication of the management, and the untiring efforts of our highly qualified teaching faculty, I am confident that the university is systematically achieving its prime objectives.

The university is playing a significant role in the lives of thousands of our young students and graduates in various disciplines that include Medicine, Dentistry, Engineering, Allied Health Sciences, Pure Sciences, Business Studies, Information Technology, Computer Science, Arts and Social Sciences. I am glad that the researchers and scholars of the UOL are working as a team and fully contributing towards developing all-round manpower for the benefit of our civil society.

M.A. Raof

Patron-in-chief, Ibadat Educational Trust

Message from the Chairman (BoG)



“Your success at the UOL will be the measure of our success in delivering high quality education.”

Since its establishment in 1999, the University of Lahore (UOL) is committed to creating an excellent learning and education environment that cherishes the value of research and knowledge. Our dedicated staff are striving to provide a holistic educational experience for the students. We are focused on improving the curriculums, strengthening all the pedagogical approaches, attracting both international faculty and students, promoting the research culture, and bridging the gap between industry and academia. Such endless efforts, are transforming UOL into a progressive University gaining a reputation at both national and international levels day by day.

With more than 200 degree programs, 4000+ courses taught by 2000+ faculty in 43 academic departments and numerous learning and teaching facilities, UOL has strands of rigorous training, research and entrepreneurship put in place to foster student potentials. We teach and raise young men and women from every continent and our home of opportunities campus life prepares them to be versatile and impactful towards a healthy and enlightened society. In our 25-year journey of academic progress, we have so far produced 58, 725 graduates passed out at 12 convocations.

Beyond the classroom environment, we are offering diverse recreational activities intended to nurture all-round students, with much emphasis on extra-coaching through skill development programs, and exposing the students to the industry through internships, and motivational talks delivered by renowned entrepreneurs.

Our systematic focus on internationalization is another vital step towards expanding the impact of the University beyond Pakistan and attracting diverse foreign expertise and perspectives to the core functions of UOL. This explains why we are a host to the largest international community among all the Private Sector universities of Pakistan having students from 21 different countries. We are collaborating with national, regional, and global partners to enable our students and faculty access additional expertise, gain new perspectives and foster networking opportunities in mutually agreed upon fields. UOL is among the leading private sector universities in Pakistan according to the QS World University Rankings 2022. The recent rise in the national and global rankings is attributed to determination towards excellency in research, teaching and community services.

Our strategic plan broadly aims at creating a world-class University with market-driven study programs and efficient management systems that are steadily transforming UOL into a leading centre of excellence in the country and beyond. We empower communities and cause socio-economic change through student outreach programs, free of charge healthcare activities, and collaborative efforts with both private and public institutions.

I welcome you to UOL where we strive to nurture professionals outfitted with the looked-for standards in creativity, transfer and application of knowledge to address the contemporary challenges of our society.

Awais Raoof

Chairman, Board of Governors

Message from the Rector



The University of Lahore (UOL), being the largest leading university in private sector in Pakistan, is dedicatedly involved in delivering quality education and producing potential future leaders. This esteemed institution has accomplished several milestones in offering quality education to students of all tiers and producing advanced research with esteemed national and international impact. The university has emerged as a promising higher seat of learning executing a myriad of academic programs. These programs have been designed very meticulously not only to meet the current societal needs but also to address the emerging future challenges. This academic and research excellence has been achieved by visionary administration, competent teaching faculty and committed administrative staff. Due to their endless efforts, strenuous hard work and complete sense of ownership, the University has become one among top global and national prestigious institutions. Our students are not only equipped with theoretical knowledge but also possess practical, critical and effective communication skills with which they offer effective solutions to our societal issues.

On behalf of our faculty and staff, I warmly welcome you all at UOL wherein you will be provided with a platform to enable you to enhance your capabilities so as to tailor yourself as productive citizens. I look forward to jointly working with you to transform our country into a highly progressive and peaceful global entity.

Prof. Dr. Muhammad Ashraf
Rector

*“Education is the key to
unlock the golden door of
freedom”.*

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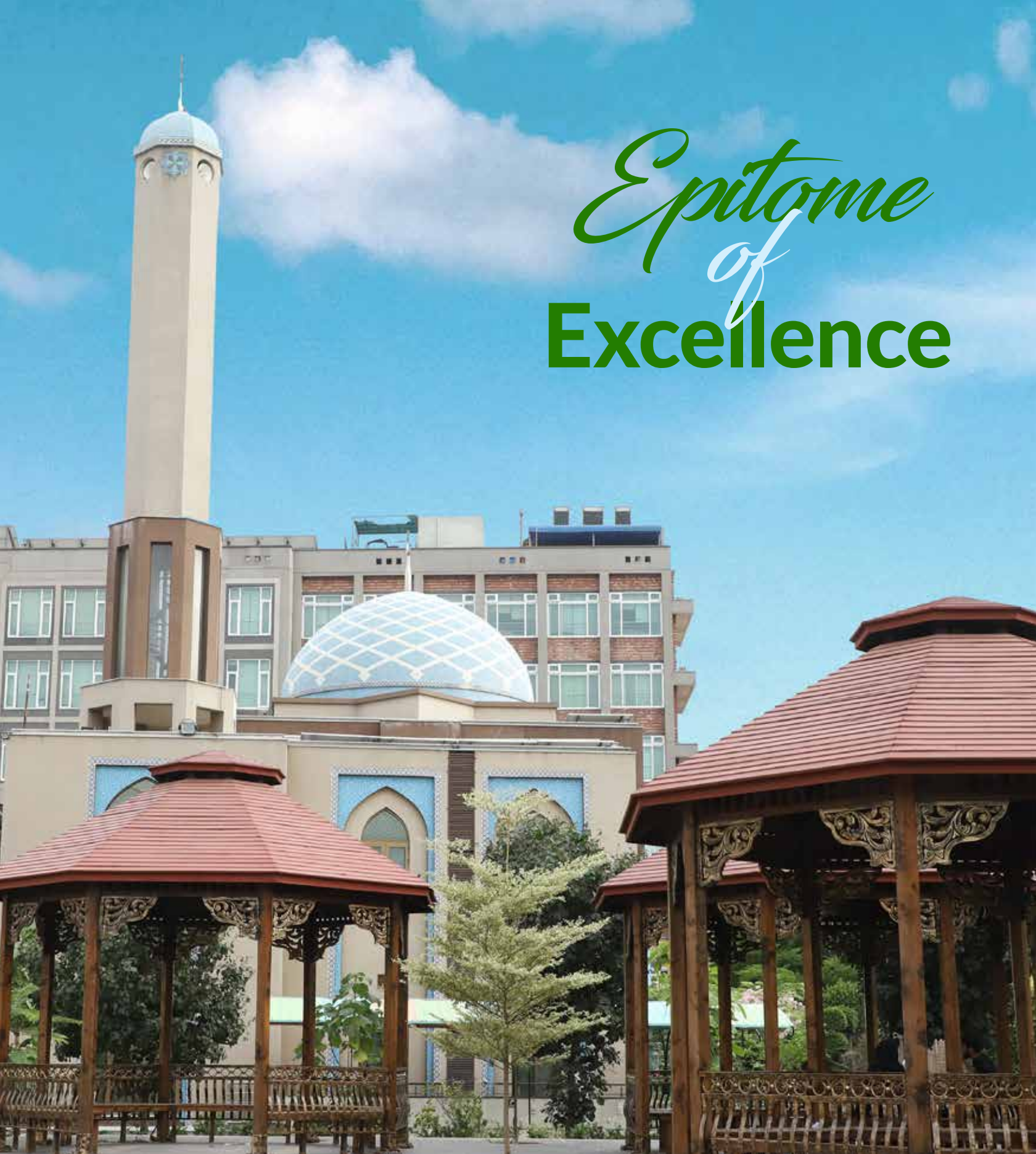
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INTRODUCTION



THE UNIVERSITY OF LAHORE

- History
- University Campuses
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- Sports and Recreational Activities
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- Pakistan Children Heart Foundation
- The University of Lahore Teaching Hospital
- COVID-19 Treatment Centre

A photograph of a mosque with a tall minaret and a large dome, with two wooden gazebos in the foreground. The mosque has a modern design with a mix of beige and blue colors. The minaret is tall and slender, with a small dome at the top. The main dome is large and has a blue and white geometric pattern. The building has many windows and a flat roof. In the foreground, there are two wooden gazebos with red roofs and intricate carvings. The sky is blue with some white clouds.

Epitome of **Excellence**

The University of Lahore



The University of Lahore is the largest private sector university in Pakistan with more than 35,000 students. The University was established in 1999 and has since then been offering courses in the fields of Medicine & Dentistry, Engineering, Arts, Sciences and Social Sciences. With strong emphasis on balanced progress and focus on human capital, the University has grown to 11 faculties and 45+ departments.

The University of Lahore (UOL) is amongst the few top universities in Pakistan that have made it to the global list of top performers on the most Prestigious Rankings including Times Higher Education and QS. The Higher Education Commission (HEC) recognizes the University of Lahore at its highest "W4" category of universities reserved for those institutions that fulfill all criterion of an International Quality University. The University has special focus on Professional and Technical Education as it is an instrument of growth & development of any country's economy. We are proud of the well equipped state of the art labs in the programs of Medicine & Dentistry, Public Health, Electrical Engineering, Civil Engineering, Mechanical Engineering, Pharm-D, Nursing and Law.

Strong linkages with the industry are of paramount importance for any higher education institution and The University of Lahore enjoys excellent links with international universities. We also have a wide range of knowledge sharing and human resource development programs with major multinationals organizations. The students at the university can expect excellent internship and skills development programs during the course of their studies.

EXCELLENT FACILITIES

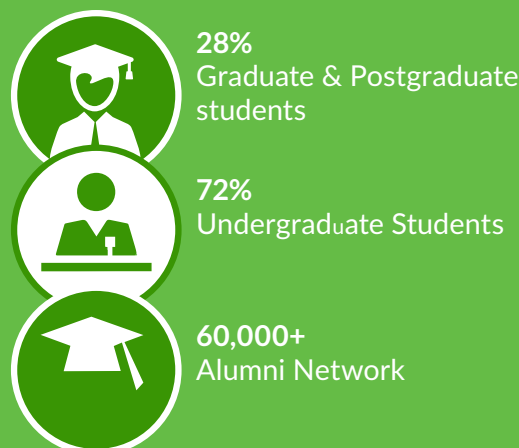
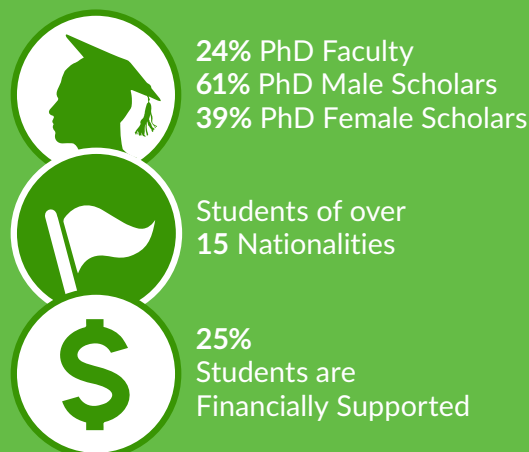
All campuses of The University of Lahore (UOL) are providing excellent and enriched learning environment with fully integrated state-of-the-art academic facilities in Pakistan. During the global COVID-19 outbreak, UOL launched the e-learning/online education project aimed to minimize academic disruption while ensuring the quality education and in a record

time, UOL successfully brought all the classes of all the UOL campuses online as per international standards set for online education.

The University has employed a secure, robust and efficient online Moodle based TLA system, Rated-III Data Centre and presently running one of the Pakistan's largest fulltime Virtual Learning Environment (VLE) providing world-class learning facilities to 35000+ students on a sophisticated Cluster model, running top industry solutions in a seamless manner which suits the local environment in a safe and dependable manner. As the COVID-19 wave is almost over now, the on-campus activities are being resumed and the students are able to enjoy the rich and attractive campus life.

The UOL Teaching Hospital (ULTH) at the campus having more than 430 beds is adding value to the Medical programs and providing benchmark medical services to UOL community & general public. Further, the establishment of UOL COVID-19 Treatment Center under the WHO/ NCOC recommended protocols is a historic achievement of ULTH. It has dedicated 75+ beds including initial assessment ward, indoor ward, single room and COVID ICU/HDU with highly qualified and experienced Pulmonologists, Physicians, Anesthetists, Psychiatrists, Resident Respiratory Therapists and other sporting staff providing finest services round the clock.

The University has invested heavily to modernize its various departments as per global academic standards to fully cater to the learning needs of the students. For instance, in the School of Creative Arts (SOCA), our students are engaged in the diverse activities, working with in-house media group 'Jehan Media' and other renowned Media Groups of Pakistan and obtaining hands-on experience regarding newspaper, television, film production, etc. SOCA, a constituent part of UOL, is the only facility in Pakistan with two commercial studios, latest in cinematic & television equipment and a sound studio delivering cutting-edge services to film production sector.



Largest Student **COMMUNITY IN PAKISTAN**

200+

Degree
Programs

11

Faculties

03

Technology
Parks

2000+

Academic
Faculty

05

Research
Centres

40+

Academic
Departments

4000+

Taught
Courses

UOL CAMPUSES

**SARGODHA
CAMPUS**

**LAHORE
CAMPUS**



LAHORE CAMPUS



SARGODHA CAMPUS

Lahore Campus

The University's Lahore Campus at Defence Road consists of a purpose built facility spanning 100 Acres housing the University College of Medicine & Dentistry, Allied Health Sciences, Pharmacy, Engineering and Technology, Information Technology, Lahore Business School, Law, School of Creative Arts, Social Sciences and University College of Dentistry. The facility features a comprehensive library, a spacious cafeteria and fully equipped laboratories and IT infrastructure.

The Lahore Campus also features a lush green park with fountains and flower gardens and an inner courtyard, which provides ample space for students to rest and recuperate. Additional facilities include a four floor student center, a purpose built library, on premises hostels with concierge and laundry and spacious auditoriums. The premises also encompass three technology parks: 1) The Media Technology Park, The Creative Village (A premier facility for professional media content) 2) Agri-Technology Park and 3) Biotechnology Park (CRiMM).

A beautiful mosque on campus which is an integral part of life for our students faculty and staff members. It is this diversity that makes it such a unique and interesting place to be. We have all the facilities of a modern,



well-equipped mosque including separate prayer and washing facilities for male and female. The atmosphere of the mosque is also a suitable area for study for our students.

A comprehensive Sports Complex for male and female students is also available at the campus. Each year competitive sports events for both male and female students are organized at inter-departmental and inter-university levels in a variety of sports indoor and outdoor like hockey, football, cricket, athletic, badminton, Volleyball, Chess, Snooker, etc. To encourage development of sports, scholarships are awarded to the outstanding players, and winners of the sporting events are awarded prizes, trophies and medals.



Sargodha Campus

In this short span of time, the university has created its name in the field of higher education at both national and international levels. In pursuit of excellence the university has developed its original core values at Sargodha Campus as well.

STUDENT SERVICES/FACILITIES

LIBRARY

A professional librarian is managing the library. The library contains over 25,000 books covering all disciplines. In addition, the library maintains book banks for use of the students on all subjects. An access to HEC digital library is also available.

TRANSPORT

The Sargodha Campus has an independent bus service to facilitate the students and faculty members from Sargodha City and its surroundings.

HOSTEL

Hostel facility is available for students and the faculty members.

IT SERVICES

The state-of-the-art Information Technology Laboratories at the Sargodha Campus are being marinated with top of the line computing systems and high speed internet facility. Furthermore, we are planning to add two more IT labs and 210 Mbps internet connection.

CAFÉ

The Campus has two separate cafes for the faculty and the students. The cafeteria provides a modern dining and café facility to all students at affordable prices.

CLUBS & SOCIETIES

Clubs and Societies facilitate the students in exhibiting their talent and enhance the growth of their soft skills.

ADMINISTRATION

- Director Office
- Registrar Office
- Controller of Examination Office
- Accounts Office
- Admission Office
- HR Office
- Quality Enhancement Cell
- Office of Student Affairs
- ORIC
- Career Services & Corporate Linkages (CSCL)

INFRASTRUCTURE

The Sargodha Campus at Lahore Road, Sargodha is spread over 99 kanals of area. The facilities like library, classrooms, laboratories, canteen, Playgrounds, faculty offices have all been catered for at the Campus. We endeavor to provide all possible facilities to students and staff for research and development in their fields of education.



DEGREES OFFERED

MANAGEMENT SCIENCES

- BBA
- BS Accounting & Finance
- B.Com (4 Years)
- BS Islamic Banking & Finance
- MBA 2 Years (Weekend)
- MPhil Management Sciences

ALLIED HEALTH SCIENCES

- Doctor of Physical Therapy
- ADP Physical Therapy
- BS Dietetics & Nutritional Sciences
- ADP Human Nutrition & Dietetics
- BS Medical Laboratory Sciences
- ADP Medical Laboratory Technology
- BS Medical Imaging Sciences
- ADP Medical Imaging Technology
- BS Vision Science
- ADP Optometry

ECONOMICS

- BS Economics
- MPhil Economics

COMPUTER SCIENCES

- BS Computer Sciences
- BS Software Engineering
- BS Information Technology
- MS-CS
- MS-IT
- ADP Computer Science
- ADP Information Technology
- ADP Web Design & Development

PHYSICS

- BS Physics
- MPhil Physics

CHEMISTRY

- BS Chemistry
- MPhil Chemistry

MATHEMATICS

- BS Mathematics
- BS Statistics
- MPhil Mathematics

MICROBIOLOGY & BIOTECHNOLOGY

- BS Botany
- BS Biotechnology
- BS Biochemistry & Biotechnology
- BS Bio Informatics
- BS Microbiology & Biotechnology
- BS Molecular Biology & Biotechnology
- BS Zoology
- MPhil Botany
- MPhil Zoology

PROFESSIONAL STUDIES

- MS Clinical Psychology

EDUCATION

- B.Ed. (4 Years)
- BS Science Education
- MPhil Education

INTEGRATED SOCIAL SCIENCES

- BS Social Sciences (Politics & IR)
- BS Social Sciences (International Development Studies)
- BS Social Sciences (Governance & Public Policy)
- BS Social Sciences (Sociology)
- MPhil Political Science

ALLIED HEALTH SCIENCES

- Doctor of Physical Therapy (5 Years)

ENGLISH

- BS English
- MPhil English Literature
- MPhil Applied Linguistics

ISLAMIC STUDIES

- BS Islamic Studies
- MPhil Islamic Studies

URDU

- BS Urdu
- MPhil Urdu



IT FACILITIES DATA CENTER

The University of Lahore (UOL) becomes the first university in Pakistan's Education Sector, public or private, to establish a redundant certified Tier-III Data Center, adding innovation and technology to its already well-established educational infrastructure. UOL prides itself on being at the forefront of innovation as a university and to enable that using technological advancements from across the world. This Data Centre is a step in the same direction, will be hosting not only Virtual Desktop Infrastructure for labs of 11 diverse Faculties and 40 Departments, Private Cloud for UOL's over 35,000 students & 4,000 faculty member, and SAP-ERP including Student Life Cycle & Campus Management facilities. UOL also aspires to offer its services to various other academic institutions and commercial organizations in the near future through this Data Center.

The University boasts of excellent IT facilities with dedicated labs on premises. 72 Mbps internet is available to students in labs as well as the new wireless service at the Defence Road Campus. All students will get the following services:

- A dedicated computer login
- Student information login (SIS)
- University Email - ID



LIBRARY FACILITIES

The University's library resources include books, journals and e-books. The University of Lahore currently houses four well equipped libraries with cumulatively more than 150,000 library books and 35,000+ digital library books catering to a wide range of subjects. The University also has access to 72 Mbps Pakistan Educational Research Network (PERN) facility, E- Library, OPAC, mini labs, HEC digital library as well as international online libraries and journals. We also subscribes to the World Class Turnitin services for plagiarism check.



150,000+
LIBRARY
BOOKS

PRIVATE CLOUD FOR UOL'S OVER 35,000 STUDENTS

SAP-ERP (ENTERPRISE RESOURCE PLANNING)

SAP-ERP (Enterprise Resource Planning) at UOL is a business process management that allows the organization to use an integrated system to manage the business and automate many back-office functions related to technology, services and applications of human resources. The latest version (SAP ERP 6.0) was made available in 2006, which has been deployed in the University with Enhancement Package (EHP7).

Having the SAP infrastructure in place has sped up any in-house development efforts because the SAP development tools are fairly easy to learn and there is a lot you can do to customize the system and build on extra functionality. Being able to do this has enhanced our return on investment in the SAP product. It has also simplified the technical support basis and account management for all these functions in one place. Our SAP system is extremely robust and we've had virtually no downtime during service hours since we implemented it.

SAP-ERP makes UOL a forerunner in modernizing student data management services within Pakistan.



HOSTELS & ACCOMMODATION

The University of Lahore provides hostel facilities to both male and female students. The Defence Road Campus features a facility of three hostels i.e. Razia Hall, Fatima Hall, Kulsoom Hall and Uni Villas which are accommodating our 2100 female students. The students are provided with accommodation, mess and high speed internet. The hostels have a gym and a swimming pool, where you will be able to benefit from expert fitness advice and take training classes.



CATERING & CAFETERIA

The University houses dedicated student center and four floors of self-service cafeteria serving delicious continental cuisine, snacks through kiosks at the Defence Road Campus. Events management, guest house dining and hostel dining are also provided by the food and lodging department.



TRANSPORT SERVICE

The University of Lahore (UOL) has its own large fleet of buses, mini buses and vans that provide pick and drop facility to its various campuses and around the city. The university also provides shuttle bus services to its staff & faculty members from one campus to another. A detailed transport plan along with specified routes can be obtained from the transport office of UOL. Transport facilities are also available to the adjacent cities of Lahore.



SPORTS FACILITIES

We firmly believe that a healthy body is a key to a healthy mind. In this regard, the UOL has invested in purpose built sports and recreational facilities which include spaces for table tennis, swimming, cricket and football. A FIFA grade football field and track is also being developed along with separate gymnasiums for both male & female students. Sports at the University are managed by a dedicated department of sports and culture.



CLUB UOL (GYM & SWIMMING POOL)

The university has an on campus gym, where you will be able to benefit from expert fitness advice & training classes at subsidized rates for the students and the faculty members.

Student Life



UOL has more than 35,000 students body and to ensure that every individual who comes to the university gets all the support S/he needs, we have a dedicated Office of Student Affairs. The well-being of our students is our primary concern. The Office of Student Affairs (OSA) ensures just that by providing you support and guidance in matters that require professional help.

OSA is the student's point of contact for all administrative needs, including questions about finance, immigration, student cards, exams and

graduation. You can visit OSA in person or email your enquiry. You will also be able to book accommodation and sports and gym facilities through OSA and get advice on careers and placements.

Within this portal, you will find services, applications, and solution to your academic & non-academic issues during your time here at UOL. Academic services handle queries regarding student's letters, semester freeze/withdrawal, issuance of interim/final transcript, examination, issuance of different certificates.



FINANCIAL AID & SCHOLARSHIPS

Ibadat Educational Trust offers liberal scholarships for the benefit of needy students. The UOL offers full scholarships to students from all across Pakistan with exceptional sports capabilities.

Note: Further information can be obtained from the finance office. Financial services will deal with the students who are seeking help on financial matters like semester fee installments, concession, fines, etc.





Life at



Clubs and Societies



DISCOVER

Join any of our 50+ clubs and societies to explore and develop your hidden talent.

BUILD

Experience the playgrounds at metropolitan, national and international levels to build the fighting spirit, ultimately leading to a successful lifestyle.

SHINE

Join the students network of 35,000+ students and get the exposure of 15+ nationalities.

**JOIN
THE**
Network of
**50+
CLUBS &
SOCIETIES**





CLUBS AND SOCIETIES

- Debating Society
- UOL Pakistan Children Heart Foundation Society
- UOL VCAN Society
- Gaming & Networking Society
- Islamic Society
- UOL Microsoft Student Partner
- Safe Society
- Nisa Society
- Payam Society
- Balochistan Initiative Society
- Kashmir Initiative Society
- UOL Character Building Society
- Robotech Society
- Imperial Pharmaceutical Society
- Sports Society
- UOL Young peace and development corp.
- Dramatics Club
- Arts & Culture Society
- Photography Society
- Computer Engineering Society
- Music Society
- Entrepreneur Society
- UCMD Society
- UOL Care Foundation Society
- Techno-Club
- Civil Engineering Society
- Mechanical Engineering Society
- Electrical & Control Engineering Society
- Law Society
- Electronics Society
- Society of Health & Nutritional Awareness
- Society of Life Sciences
- UOL IEEE Society
- LB-IETS Society
- UOL Volunteer Force against Hepatitis Transmission
- Physics Forum Society
- Society of International Affairs
- Media Society
- Modal Organization of Islamic Cooperation
- UOL Student Focus society
- IFMSA Pakistan UCMD-LC
- Blood Donation Society
- Health Care Society
- The Olive Society
- Society of Allied Health Science
- Society of Dental Surgeons
- Literary Society
- Dead Art Society
- Al-Biruni Society
- Young Leadership Program
- Hello Africa
- The Film Talkies
- UOL ASME
- Unsaid words

Sports and Recreational Activities



INDOOR & OUTDOOR 35+ SPORTS GAMES



- Ski
- Handball
- Gymnastic
- Squash
- Tennis
- Badminton
- Cycling
- Rugby
- Netball
- Tug of War
- Baseball
- Judo
- Basketball
- Table Tennis
- Bodybuilding
- Football
- Archery
- Cricket
- Athletics
- Wushu
- Kabaddi
- Volleyball
- Wrestling
- Hockey
- Karate
- Rowing
- Weightlifting
- Boxing
- Chess
- Rock Climbing
- Ju-jitsu
- Taekwondo
- Shooting
- Swimming
- Waterpolo

International Students



MISSION

The International Office is designed and dedicated to look after the international relations and accreditation of the university worldwide.

We look forward to providing maximum help to our international students including their accommodation, visa and residential permit process and follow up till they graduate.

The University of Lahore is a host to students from Palestine, Sudan, Yemen, Turkey, Syria, Somalia, Afghanistan, Nepal, Oman, Kingdom of Saudi Arabia, South Korea, Jordan, UAE, India, Nigeria, Uganda amongst others. The University has a dedicated International Students Cell which manages the applications for study vacancies of the International students, processes their admission, HEC NOC, Visa as well as settling them into the cultural diversity of the UOL. The University believes in organizing healthy cultural activities for local as well as International Students.

INTERNATIONAL CULTURAL DAY

Every Year, The University of Lahore organizes International Student's Cultural Day for the students of different nationalities. Youngsters belonging to various countries and nationalities represent their culture and traditions at this event. Stalls at the event are also of great attraction to all people.

INTERNATIONAL STUDENTS ADMISSIONS

For international students applying to The University of Lahore, an application needs to be submitted to:

International Student Office (Office of Student Affairs - OSA)
international.students@osa.uol.edu.pk

The university is proud to have over 15 nationalities currently studying in different departments.



Quality Enhancement Cell (QEC)



The University of Lahore (UOL) established 'The Quality Enhancement Cell (QEC)' in May 2010 according to the Quality Assurance (QA) framework of Higher Education Commission of Pakistan (HEC) to maintain and enhance the quality of education & research, build institutional capacity, inculcate quality culture, improve compatibility with external quality assurance standards and ensure continuous quality improvement in the University functioning; thus, entitling UOL to the confidence of academic world and the community.

As strategic organ, QEC channelizes & systematizes the efforts and actions of UOL departments towards the desired direction. It also analyzes the available data and generate the decision support reports; thereby, acts as a diagnostic lab for the top management to take appropriate preventive and corrective actions. Furthermore, it is a focal point for HEC, HED, PHEC, various accreditation councils (PEC, PMDC, etc.), international ranking agencies, etc., as well as a gateway of information flow in & out of the University.

QEC plays a key role in improving the global, regional & national reputation and rankings of the university. In view of the efforts and excellent performance made by QEC, HEC placed UOL at its highest "W4" category. Globally, The University of Lahore (UOL) is amongst the few top universities of Pakistan that have made it to the global list of top performers on United Nations' (UN) Sustainable Development Goals (SDGs) as per the most recent Times Higher Education University Impact Rankings 2022. On individual UN SDGs, the University has been placed as (Globally):

- Ranked 65th for UN SDG 2 – Zero Hunger
- Among Top 401-600 for UN SDG 3 – Good Health and Well-Being
- Among Top 301-400 for UN SDG 4 – Quality Education
- Among Top 101-200 for UN SDG 6 – Clean Water and Sanitation
- Among Top 301-400 for UN SDG 8 – Decent Work and Economic Growth
- Among Top 401-600 for UN SDG 9 – Industry, Innovation and Infrastructure
- Among Top 101-200 for UN SDG 12 – Responsible Consumption and Production
- Among Top 101-200 for UN SDG 13 – Climate Action
- Among Top 401-600 for UN SDG 17 – Partnerships for the Goals

Further, UOL has been listed amongst top 350 best Asian Universities as per latest QS World University Rankings: Asia 2022. Furthermore, the university has been positioned as 226th World's Most Sustainable University in the last UI GreenMetric Rankings, for its commitment to the greening of campus and putting in place environmentally friendly policies that support sustainability. The inclusion of UOL in these prestigious rankings elucidates that it is one of the top institutions which fulfill all criteria for being an international quality university.

SCOPE

In light of the guidelines provided by HEC, QEC is responsible for:

- Promoting public confidence that the quality and standards of the award of degrees are continuously enhanced and safeguarded.
- Developing qualifications framework by setting out the attributes and abilities that can be expected from the holder of a qualification i.e., Bachelors, Masters, and Doctoral.
- Developing program specifications. These are standard sets of information clarifying what knowledge, understanding, skills and other attributes a student will develop on successfully completing a specific program.
- Ensuring that the University's quality assurance procedures are designed to fit in with the arrangements in place, nationally and internationally, for maintaining and improving the quality of higher education.
- Fostering curriculum, subject and staff development, together with research and other scholarly activities.
- The review of quality standards and the quality of teaching & learning in each subject area.
- Developing quality assurance processes and methods of evaluation to affirm that the quality of provision and the standard of awards are being maintained and continuously improved.
- Corresponding with the outside bodies like the regulatory authorities, accreditation councils, international ranking agencies, etc.
- The review of academic affiliations with other institutions in terms of effective management of standards and quality of programs.
- Defining clear and explicit standards as points of reference for the reviews to be carried out.
- Student feedback, faculty feedback, alumni feedback, employer feedback, etc.

The Universities are assessed annually against these parameters



International Rankings



RANKED GLOBALLY

9th IN PAKISTAN

2nd IN PRIVATE SECTOR
UNIVERSITIES OF
PAKISTAN

WORLD RANKINGS 2023



301-350

ASIA RANKINGS 2022



RANKINGS 2022

226th IN THE WORLD

5th IN PAKISTAN

1st IN PRIVATE SECTOR
UNIVERSITIES OF PAKISTAN

WEBOMETRICS

**RANKING WEB
OF UNIVERSITIES 2022**

14th IN PAKISTAN



401-600

TOP UNIVERSITIES
OF THE WORLD

OVERALL IMPACT

**RANKINGS
2022**

**AMONG 8
TOP 8**

UNIVERSITIES OF
PAKISTAN

1st IN PAKISTAN

AMONG
**MEDICINE
& DENTISTRY**
INSTITUTIONS

TOP **3** IN PAKISTAN
AMONG

ENGINEERING
(CIVIL, MECHANICAL & ETC)
INSTITUTIONS



UN SDG 2
ZERO
HUNGER
RANKED 65th



UN SDG 3
GOOD HEALTH
AND
WELL-BEING
AMONG TOP 600



UN SDG 4
QUALITY
EDUCATION
AMONG TOP 400



UN SDG 6
CLEAN WATER AND
SANITATION
AMONG TOP 200



UN SDG 8
DECENT WORK AND
ECONOMIC GROWTH
AMONG TOP 400



UN SDG 9
INDUSTRY, INNOVATION
AND INFRASTRUCTURE
AMONG TOP 600



UN SDG 12
RESPONSIBLE
CONSUMPTION
AND PRODUCTION
AMONG TOP 200



UN SDG 13
CLIMATE
ACTION
AMONG TOP 200



UN SDG 17
PARTNERSHIPS
FOR
THE GOALS
AMONG TOP 600



Office of Research Innovation & Commercialization (ORIC)



The University of Lahore established the Department of ORIC (Office Of Research, Innovation and Commercialization) to support and integrate the process of research, innovation and commercialization in all the departments of University of Lahore. ORIC aims at implementing HEC's plan of developing a research culture in the UOL and establishing contacts with the corporate sector / market / industry to ensure compatibilities between research & requirements in order to increase its utility to the optimum.



AIMS AND OBJECTIVES

The objective of ORIC is to develop, expand, enhance and manage the university's research programs and to link research activities directly to the educational, social and economic priorities of the university and its broader community. ORIC is also responsible for assuring that the quality of research reflect the highest international standards and advance the stature of the university at national and international levels.

ORIC endeavors to guarantee that all research programs and policies reflect the core values of academic freedom, professional integrity and ethical conduct and full compliance with all policies, legal requirements and operational standards of the university.

Specific Objectives:

1. To ensure all research related activities are conducted within the legal and ethical framework.
2. To improve integration of research and education at all levels of the institution.
3. Translating research for the public benefit.
4. To promote and improve multi-disciplinary research initiatives.
5. Develop, maintain and communicate pre & post award administrative procedures for externally sponsored projects.
6. Facilitate collaborations among faculty through identifying overlapping research interests and providing opportunities to communicate.
7. Supporting the strategic research directions and policies of UOL.
8. To bring funding opportunities from national/international donors/ sponsors to the attention of faculties.
9. To design, develop and deploy practicable and replicable models for sustainable economic and social development of the society.
10. To provide tailored career counseling and placement services against one's needs, goals, choices and future plans based on one's hidden abilities, skill and talents.
11. To provide quality mentorship and conducive environment to writers and scholars for research-based writing.
12. To maintain, deepen and strengthen an enduring lifelong relationship between alumni and university through opportunities that promote interaction and engagement.
13. Improving and strengthening university and industry relationship.
14. Promoting entrepreneurship, technology-transfer and commercialization activities.
15. Coordinate internal and external reporting needs, including maintenance of HEI's database.
16. Develop a structure for mentorship of junior faculty.
17. Provide information about the grant process to faculty including study section procedures, interpreting reviews, and identifying appropriate funding mechanisms.
18. Review and analyze all new invention disclosures.
19. Identify and establish collaborations and/or licensing agreements associated with the Institute's intellectual property rights.
20. Track the success of university technology in the hands of licensees.
21. Give awareness to teachers/scholars regarding project funding agencies, Conferences/Workshops/Seminars and scholarships from various organizations of the world.

The Innovation Hub (iHub)



INTRODUCTION

The University of Lahore has incorporated commercialization of academic research in its mission and foreseeing the demands of the future the university has launched Innovation and Incubation Center. The core purpose of establishment of iHub is to help in enhancing applied research across the university among different departments. The center will help the new startups to develop strong linkages in the industry and will play an important role in the economic development of Pakistan.

iHub will help in bridging the gap between the industry and academia and transforming knowledge into commercial success. iHub, is a mixed use incubator supporting technological and non-technological entrepreneurial projects.

iHub aims at commercialization of Research and Development undertaken at the campus. This is to be achieved through conversion of concepts and knowledge created at their academic departments into viable projects and their successful execution for sustainable development of economy and the society.

STARTUP

Any new company working to unravel a problem where the solution is not evident and success is not guaranteed is known as a startup. The aim of a startup venture is not to maintain its sustainability but the culture of the company is to forgo steadiness and evolve constantly to seek tremendous growth. Startup of the contemporary business world vary a lot as revenues, profits and employment numbers change significantly between companies and industries. Furthermore, the culture of these organizations do not follow the pre-established norms and even a bunch of hoddie wearing employees working in small space can be termed as a startup if it is doing some serious work to address an important problem present in the market or is catering the needs of the target market.

START-UP ENTRY PROCEDURE

The iHub incubator admission process consists of the following steps:

1. Submission of application through Website, Facebook page, application form attached with booklet and discussion panel.
2. Primary evaluation of the application by the incubator staff (i.e. Panel Members)
3. Submission of due diligence and documents. (i.e. Anti-debt checks e.g. no pending dues with University, character certificates by HoD, attendance record and academic records)
4. Submission of business plan.

Main requirements of business plan are mentioned but are not limited to the following:

- a. Summary of the idea.
- b. Team Details
- c. Details of Need Identification
- d. Details of Product/Service (Solution Offered)
- e. Identification of Competitors
- f. USP
- g. Financial Plan and Projections
- h. Customer acquisition and distribution cost
 - Marketing Strategy
 - Expansion Strategy
5. Review of business plan by selection committee of IHub.
6. Each idea shall be evaluated at 3 levels:
 - a. Idea Round
 - b. Presentation Round
 - c. Final Evaluation Round

PORTFOLIO



It is an Agri tech platform that supports and promotes farmers in Pakistan to increase their Zaaminder provides services by connecting farmers with market and agriculture goods-producing companies to farmers.

Founder & CEO: Zubair Ayaz Asim

hashtag #Zaaminder #Agritech #Pakistan #Farmers



Building 7 figure Amazon brands with our partners: We find products to sell on Amazon, work with manufacturers and suppliers to create private label brands that compete in the most profitable parts of the marketplace, manage all aspects of product development and sourcing through product launch, build out digital marketing campaigns for each brand to drive traffic and conversions, and coach our sellers along the way.

Founder & CEO: M Tehsin

Office of Career Services & Corporate Linkages (CSCL)



The department of Career Services and Corporate Linkages (CSCL) at University of Lahore (UOL) was established in 2017. The basic aim of the department is to ensure the market placement for the UOL students. In this regard, the department has been given the mandate to bring in the industry and connect the students of UOL with their relevant industry. The department has flourished under a team of self-driven and competent members with diverse experience from the corporate and academic sector.

CORPORATE LINKAGES

CSCL is dedicated to providing the best services to its students by grooming them to develop a career oriented vision of their goals and objectives before they enter their field of specialization, practically. In this regard, CSCL is building strong and long term linkages with national and multinational leading companies, industries, government offices, and international organizations. Since the University of Lahore has an outstanding number of schools and programs, it is imperative to have a diversified linkage network. This is to facilitate the students and ensure latest tools and procedures are introduced to the student body.

Developing and upholding professional associations within the corporate world is one of the major responsibilities of CSCL.

Corporate linkages office conducts a wide range of on-campus and off-campus activities with the public and private sector

- Technical experts, thought leaders, industry specialists visit UOL for conducting workshops, panel discussions and one-on-one dialogue on latest trends
- Human Resource specialists from private and public sectors are invited to conduct career exploration lectures, job placement sessions and career-building workshops
- Conduct Alumni Network sessions. Alumni visit UOL and discuss their success stories with the students
- Off campus factory visits. Students learn latest industry standards and practical ways of implementing their learning and knowledge

CAREER SERVICES

CSCL is dedicated to facilitating our valued students for internship and employment.

Main services offered by CSCL:

- Comprehensive guidance and counselling to students
- One on one sessions with experts to identify gaps and work on improving skills
- Career development sessions
- Training and Development Sessions to impart market oriented soft skills.
- Internship placement
- Job placement
- Mock interviews
- Career building workshops
- Interview preparations
- Job searching techniques

Following are the main activities conducted by Career Services:

- Job Fairs
- Recruitment drives
- Job posting on UOL platforms
- Student profiling – skill set and market priority settings. We identify the core skills of each student and match them with most suitable companies and jobs.
- Employee Feedback – Work with industry to feedback on recruitments
- Professional Ethics, Dress Code and Corporate standards



Internationalization & Academia Industry Collaboration



UOL has signed multiple MoUs for collaborations in teaching, research, faculty/students exchange programs, etc., with reputable universities in US, Europe, Asia and Africa. Within Pakistan, the university has established strong linkages with the industry in order to minimize the gap between theoretical knowledge and professional practice. All the faculties of university have a chain of companies/organizations/firms where students are regularly sent for internships that usually lead to job placements. The university is also partnering with experts on the Islamic Banking & Finance from Malaysia to strengthen this vital discipline in the country.



Belt & Road Forum

International office of Guangdong Ocean University and CPEC Research Centre, UOL have jointly affirmed their intent to extend cooperation between the two countries and launching a 'Belt and Road Forum' which will follow the vision of Chinese President. The Forum will provide a chance to students of counterpart universities to interact with each other and share their traditions, customs, language & culture. It will also facilitate various BRI Projects and arrangement of seminars, conferences, workshops, etc., in this regard.



Main objectives of BRI Forum:

- Exchange of scholars and researchers.
- Exchange of students for summer and winter camps, language programs, short courses etc.
- Organizing workshops, seminars and other training programs.





FACULTY & STAFF DEVELOPMENT PROGRAM (FSDP)



INTRODUCTION

University of Lahore (UOL) is the largest private-sector university in Punjab, it is, therefore, imperative to continue to strengthen the pursuit of excellence in teaching, research, leadership, and campus citizenship to live by university's mission, vision, and values. The Teacher Training Academy (TTA) prepares all stakeholders to excel in their performance towards academic excellence and quality service through providing regular professional learning and development opportunities to all across the university community.

TEACHER TRAINING ACADEMY (TTA)

The purpose of the Teacher Training Academy is to provide contextualized professional development services to the university faculty and administrative staff so that they ensure engaging and lasting student experiences across all disciplines.

The mission of TTA is to enhance the knowledge, skill-set, and competencies of the faculty and staff at UOL by providing high-quality, accessible training and professional development opportunities to support the vision of the university of becoming the best private university in Pakistan.

Through this platform, the university explores the professional development needs of novice and experienced faculty, staff, and leadership and provides suitable sustainable opportunities to keep abreast with modern trends in their professional roles, excel in their performance, and be independent in their professional growth.

OBJECTIVES OF FACULTY DEVELOPMENT PROGRAM (FDP)

The objectives of this program are to:

- Promote a competency-driven professional development of all faculty members across all disciplines at UOL.
- Foster a climate for innovation in teaching and learning.





- Enable faculty members to design, contextualize and manage a range of suitable and relevant learning resources.
- Provide innovative, collaborative, and reflective working experiences to students to promote critical thinking across all disciplines.
- Provide professional consultations to faculty and staff to strengthen the vision of UOL.

OBJECTIVES OF STAFF DEVELOPMENT PROGRAM (SDP)

Staff Development Program intends to improve the overall efficiency of staff through strengthening their professional competencies, attitude, and knowledge. The ongoing professional development also intends to prepare the staff to adapt to the changing needs in Pakistan and beyond.





"Our vision is to make Pakistan a more livable place for everyone; to contribute to creating communities that are empathetic, compassionate and tolerant towards each other; to educate the unschooled and enlighten the privileged in order to create self-sustaining communities living in harmony."

-Ms. Farah Mahmood - Director UOL Relief Trust

THE BEGINNING OF UOL RELIEF

The University of Lahore is the largest Private Sector University in Pakistan. We are thus, fully aware that our social responsibility and sense of accountability is greater than others. We believe, that welfare and community service are the key aims of acquiring knowledge and a good education must create individuals who are citizens of the world.

Our major contribution so far, has been in the Gilgit Baltistan, KPK and lower Punjab regions, majorly, because these regions are not accessible to normal people; are frequently affected by natural calamities and are the most under developed and adverse regions of Pakistan.

Being part of the trekking community, the UOL Relief is constantly called for assistance by the mountain communities that otherwise, have no voice.

In the 2005 earthquake where everyone rushed towards Muzaffarabad to give assistance, the UOL reached Balakot. In 2010, the Tattu valley, Raikot valley, Gas bala, Talis in Skardu, Thalley Valley, which were badly affected by flash floods and entire communities were wiped out.

The UOL tirelessly works to create as many volunteers as possible. Acting on the belief acquired after more than 2 decades of community service that "a trained volunteer is also a good human being, citizen, community member, able to provide medical aid, respond effectively to emergencies and calamities, exhibit gratitude and learn thankfulness."

The UOL Relief Trust is the practical platform for the acquisition of this belief.

OUR SERVICES

EMERGENCY RESCUE & RELIEF:

Proficient in dealing with all kinds of calamities - To rescue, evacuate, identify emergencies and provide relevant medical aid and shelter.

COMMUNITY UPLIFT:

To create self-sustainable communities by improving infrastructure, providing business support, vocational training and housing (e.g. Apricot Support Program, reconstruction of Water channels/bridges/roads)

FOOD & VULNERABLE PEOPLE SUPPORT PROGRAM:

Providing support to widows, orphans and those too vulnerable to earn or fend for themselves.

MEDICAL CARE:

To cater to all kinds of medical concerns and emergencies in the remote and adverse regions of Pakistan, UOL Relief with the help and expertise of the University of Lahore's University College of Medicine & Dentistry (UCMD) and Pakistan Children's Heart Foundation (PCHF) provides medical support to people in dire need in the following ways:

- Surgical support: surgeries and operations of underprivileged people who cannot afford the expenses are sponsored by the Trust.
- Medicine Support for those who cannot support themselves especially the disabled, orphans, widows and the elderly.
- Medical Camps: Annually, free medical camps with the help of specialized doctors and volunteers are set up in remote areas.

EDUCATIONAL DEVELOPMENT:

Adopt a school, sponsor a child & teacher training.

From setting up temporary tent schools in crisis-hit areas to further developing already established yet neglected school systems, UOL Relief has worked extensively to encourage learning and education in children across several communities. The development is carried through:

- Sponsor a child program
- Teacher training programs
- Facilitating Schools

The UOL Relief Trust Education Support Program that provides teacher training and support to schools and teachers in the North is equipped with exceptionally skilled teachers/trainers who have received various Cambridge trainings, diplomas and certifications.



WHY SUPPORT OUR CAUSE?

The "Cause" of the UOL Relief Trust is not an individual cause of one man; it is a vision for a nation and thus can only bear fruit when all its members join hands. The economic, educational and social well-being of Pakistan is the social responsibility of each and every one of its citizens.

If you wish to play your part in returning back to your community or fulfilling your duty as a human being; **THIS IS YOUR CHANCE...**

HOW CAN YOU CONTRIBUTE?

1. Become a Volunteer
2. Sponsor a child
3. Contribute in kind or cash towards any program of your choice.
4. Share your talents and skills with us.

It doesn't matter how small or insignificant your support is, know that each and every contribution has a massive effect.

So join us and leave behind a legacy for the future...

For more information and updates please visit: <https://relief.uol.edu.pk>

DONATE NOW:

INTERNATIONAL BANK TRANSFER

Beneficiary Account title:

UOL Relief Trust

Bank: Allied Bank Ltd

Branch Code: 5322

Branch Name:

University of Lahore Branch

IBAN No:

PK77ABPA0020001432730208

Account No:

0020001432730208



Ilm Power Children Center



Ilm-power Children Center, a project by The University of Lahore and PAHCHAAN (Protection And Help of Children Against Abuse and Neglect) is a first of its kind innovative center, situated in Walton, Lahore for children from lower and lower-middle class families. In this center, we are providing life skills based education coupled with activity based non formal education for children who were out of School (for child laborers or children who can no longer be enrolled in a regular school) while actively engaging their parents and community.



In the heart of the city, there are communities and children who struggle with making ends meet. During their struggle for survival, education falls in the bottom of the priority list.

QUALITY EDUCATION

We are providing quality education to our students. With qualified teaching staff, curriculum and enhanced learning, children are given education as well as life skills education.

INVOLVEMENT OF PARENTS AND COMMUNITY

Parental involvement in child's life is a very significant variable in the betterment of his life. Therefore, we engage parents through regular meetings to make them aware of their child's performance and the role they can play in his/her life. We also provide counseling facilities to improve their economic and living conditions, hence improving life of their children.

HYGIENIC AND SECURED ENVIRONMENT

We provide our children with healthy and hygienic environment. There are well cleaned and spacious rooms for our students. We do not compromise on our students' security and safety. CCTV cameras are placed for monitoring and security guard facility is provided for the center.

RECREATIONAL FACILITIES

We focus not only on the educational component but also on the recreational services for children. We provide recreation to students through fun filled activities so that they can learn more through play.

PROVIDING CHILDREN WITH NUTRITIOUS MEAL

For an active mind and body, nutritional needs must be met. We provide each child with fruits and milk every day and monitor their physical and mental growth.

Child Rights Department



MISSION STATEMENT

Child Rights Department UOL, promotes child rights education by multidisciplinary and multidimensional approach to learning. Through academia and research, it provides a platform for raising awareness, evidence based practices, interventions and advocacy for the full realization of the rights of every child.

INTRODUCTION

The department offers both curricular and extracurricular programs at the university including, but not limited to; Academic Programs, Trainings and Certificates, Service Delivery Programs, Advocacy for Child Rights at National & International Levels, Raising Awareness among students and society and Research on the Subject. Being the first of its kind academic department in South Asia, the department aims to produce socially responsible individuals; by letting them know their duties and responsibilities towards children, as well as professionals by inculcating knowledge about child rights in their respective field of specialization and offering specialized degree programs in the field.

PAKISTAN CHILDREN HEART FOUNDATION (PCHF)

Approximately 50,000 children in Pakistan are born with Congenital Heart Defects (CHDs) annually, this is more commonly known as a 'hole in a heart'. Approximately 25% of these kids require immediate intervention, whether it be surgical or catheterization.

UOL wants to establish a state-of-the-art medical facility that provides the highest quality of care for children with heart disease, irrespective of their financial means. To act as a model institute, for the training of healthcare professionals, education of the public at large and promote research into the causes and management of congenital heart disease.

University donated the land to Pakistan children heart foundation (PCHF) for charity that will build this hospital and together we will treat children with congenital heart disease for free.



PCHF

PAKISTAN CHILDREN'S HEART FOUNDATION

University of Lahore Teaching Hospital



One of the four teaching hospitals affiliated with the UCMD, the University of Lahore Teaching hospital is a state-of-the-art modern hospital with 430-bed strength. Aesthetically designed, the unconventional ambiance gives a sense of reassurance and satisfaction to the patients, visitors, and staff. Backed by the most modern equipment, the highly qualified faculty and motivated staff. It provides range of affordable diagnostic and treatment services of international standards to patients from all walks of life with a very high satisfaction rate.

The University of Lahore Dental Hospital provides comprehensive oral health services with a focus on specialized treatment needs. Services offered cover the diagnosis, prevention, and treatment of all conditions affecting the mouth and associated structures, restoration, and correction of dentofacial aesthetics and treatment of facial deformities and trauma as well as the repair of damaged oral tissues. All types of dental treatments are provided at subsidized rates. Our patient turnover ranges between 100-130 (new) patients per day, which is ample for student training.



Covid-19 Treatment Centre



University of Lahore Teaching Hospital is providing following facilities to Corona patients:

- Advanced COVID-19 RT-PCR Testing
- Dedicated 74 beds facility including Initial Assessment Ward, Indoor Wards, Single Rooms and COVID ICU/HDU
- Comprehensive treatment facility from initial assessment to ICU Care.
- Advanced Airway Management including High Flow Nasal Cannulas, CPAP/BIPAP and Ventilators.
- Highly qualified and experienced Pulmonologists, Physicians, Anesthetists, Psychiatrist, Resident Respiratory Therapists, Nurses and Support Staff.
- Uninterrupted oxygen supply from liquid oxygen tank backed by oxygen manifold and oxygen cylinder.
- PPEs from level 1-3 provided to all COVID Center staff (including: N95 masks, Goggles, Face Shields, Tyvek Suits)
- WHO recommended protocols for COVID-19 health facility are followed.
- Regular dietitian and Physiotherapy consultations for all admitted patients
- 24 hours IVS monitoring of patients.





DEAN's MESSAGE

Welcome to the Faculty of Engineering and Technology at The University of Lahore. We aim to provide a world class learning environment to our students with quality of education and scientific research activities. We are offering Computer Engineering, Civil Engineering, Electrical Engineering and Mechanical Engineering Programs that are accredited and recognized by Higher Education Commission (HEC) and Pakistan Engineering Council (PEC) under OBE System (Level II). We are also offering Engineering Technology Programs that are recognized by HEC and National Technology Council (NTC). Our faculty is highly qualified with specialized knowledge in the core areas of Engineering and Technology. We provide state of the art lab facilities, quality teaching, research and development environment to our students. We put strong emphasis to develop and improve the cognitive, affective and psychomotor skills of our students. We have taken strong initiatives to strengthen the collaboration between industry and academia to fully capitalize the skills of our graduating students. Within the framework of our quality assurance systems, we prepare and trained our students to make technological contributions that shape society and build the foundation for a better future. I am fully confident that our Faculty of Engineering and Technology will continue to achieve even greater heights of excellence in future.

Prof. Dr. Ibrar Hussain

PhD from Zhejiang University, P.R. China



DEPARTMENTS

- Electrical Engineering
- Mechanical Engineering
- Civil Engineering
- Computer Engineering
- Technology



HoD's MESSAGE

The Department of Electrical Engineering is one of the oldest departments at the University of Lahore. Its bachelor's program is accredited at Level – II by the Pakistan Engineering Council (PEC), making it recognizable and substantially equivalent to the similar degrees offered by the signatory countries of the Washington Accord. We pride ourselves in having the most vibrant faculty and well-groomed multidimensional students driven by self-motivation and a quest to improve continuously. Alumni of the department are not only working in the high-tech industry but also engaged in numerous entrepreneurial ventures. The department offers a versatile curriculum that enables students to cope with the current demands of the industry in the fields of Power, Electronics and Communication Systems, and Computing. A lot of emphasis is given to hands-on training and the department has developed many labs with state-of-the-art technology to refine these practical skills in the students. Much focus is also given to the extra- and co-curricular activities and different seminars, workshops, competitions, etc., are regularly organized at the department. We have very strong linkages with both the public and private sector industry that culminates into cutting-edge projects and research. Unlike most other disciplines, career opportunities in Electrical Engineering are endless as graduates can work anywhere from startups to big tech firms and government agencies. The degree programs offered at the department will prepare you for a bright future. On behalf of the department, I welcome our new students and visitors, and wish our current students and graduates well.

Dr. Ghulam Abbas
PhD in Electrical Engineering
INSA Lyon, France

MISSION STATEMENT

The mission of the Department of Electrical Engineering is to prepare a pool of human resource that could contribute in the development and progress of the nation. As an engaged, productive and effective member of society, can display mastery in the core competence in the area of electrical engineering, think critically, communicate clearly, and can solve problems creatively with lifelong learning traits.

INTRODUCTION

The department of Electrical Engineering was launched in October 1999. The department offers undergraduate and graduate electrical engineering programs. The curriculum formulated by HEC is followed in our programs. The department places maximum emphasis on lab work and project works backed by industrial visits to develop concepts of the theory taught in the courses. We have a highly qualified, capable and devoted faculty consisting of good blend of Professors, Assistant Professors, lecturers and lab engineers according to the laid down rules of PEC. Facilities, including Visual audio aids, research laboratories equipped with the latest technology, give the students a creative and stimulating learning environment. All students have access to a wide range of standard computing facilities supported by Student Information Systems Services (SIS). SIS is also being utilized for online complaints /suggestion and attendance record of the student, and online enrollment facility. Transport and sport facilities of the university are utilized by the students of our department.



SCAN THIS TO SEE
FACULTY LIST

Bachelor of Science in Electrical Engineering



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission, Pakistan Engineering Council

Entry Requirements

- 12 Years of Education, HSSC Pre-Engineering with Physics, Chemistry and Mathematics, A-Level or equivalent scoring a minimum of 60% marks.
- DAE in the relevant discipline as per PEC regulations with the minimum of 60% marks.
- B.Tech in the relevant discipline
- UOL Entry Test is mandatory.

Note: Further details can be found on the departmental website.

INTRODUCTION

The department has been accorded level II accreditation (substantially equivalent to Washington accord) by PEC with effect from Batch-2016. The undergraduate Electrical Engineering program is based on solid foundation in Mathematics, Natural Sciences, Computer programming and core engineering knowledge to ensure successful completion of the program and to equip the students with future professional growth, rational reasoning and analysis. The program provides a broad engineering core competence which enables students to communicate & interact effectively with engineers in different areas of specialization & to make technological decisions with confidence. On successful completion, the student possesses the ability to perform integrated problems solving ability, problem identification, analysis, hypothesis testing, solution verification, and its implementation.

Course Learning Outcomes (CLOs) at appropriate Bloom's taxonomy level in the three learning domains, namely, Cognitive, Psychomotor and Affective have been developed in accordance with Outcome Based Education. These CLOs are linked with twelve graduate attributes that Department of Electrical Engineering has adopted from Washington Accord/PEC. All the assessments are linked with course learning outcomes. Final Year Projects and Lab experiments etc are marked according to developed scoring rubrics. Problem and activity-based learning is strongly encouraged and students are also prepared for Complex Engineering Problems.

OUTCOME BASED EDUCATION (OBE) SYSTEM

In line with Washington accord, OBE has successfully been implemented in the Department of Electrical Engineering, resulting in level-II accreditation by PEC.

CAREER PROSPECTS

Electrical engineers are in demand with employers within Pakistan and overseas. This degree attracts wide range of employment in the field of Communication such as cellular companies, electronic industries, electronic media, automation, robotic industries, power generation, transmission, distribution companies and industries driven by electrical power.

PROGRAM EDUCATIONAL OBJECTIVES

These objectives highlight the departmental goals few years after a student graduates, developed in line with the department's mission are listed below:

PEO-1: Graduates would demonstrate solid engineering knowledge and skills through analysis, investigation, and design and the use of relevant engineering tools in solving problems.

PEO-2: Graduates would become conscientious and thoughtful contributors to the society by producing engineering solutions that are culturally considerate and in harmony with nature.

PEO-3: Graduates would effectively display professional ethics, leadership quality, teamwork and communication skills in a multidisciplinary environment.

PEO-4: Graduates would exhibit versatility by adopting diverse career paths, strengthened by innovation, creativity, research and entrepreneurship, and self-motivated learning pursuit to further hone their abilities, talents and insights.

PROGRAM LEARNING OUTCOMES (PLOs)

The Department of Electrical Engineering has adopted the following twelve graduate attributes as PLOs. Course learning outcomes (CLOs) in each course are designed and mapped with these attributes so that these PLOs are achieved by the graduates.

1. Engineering Knowledge
2. Problem Analysis
3. Design/Development of Solutions
4. Investigation
5. Modern Tool Usage
6. The Engineer and Society
7. Environment and Sustainability
8. Ethics
9. Individual and Teamwork
10. Communication
11. Project Management
12. Lifelong Learning



ROAD MAP		TOTAL SEMESTERS 08			TOTAL CREDIT HOURS 136		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Functional English	2	Differential Equations	3	Complex Variable and Transforms	3	Sociology for Engineers	3
Calculus and Analytical Geometry	3	Multivariable Calculus	3	Communication Skills	2	Linear Algebra	3
Linear Circuit Analysis	4	Electrical Engineering Workshop	1	Digital Logic Design	4	Introduction to Embedded Systems	4
Introduction to Computing	2	Pakistan Studies	2	Computer Aided Drawing	1	Probability Methods in Engineering	3
Islamic Studies	2	Programming Fundamentals	4	Data Structures and Algorithms	4	Signals and Systems	4
Applied Physics	4	Electrical Network Analysis	4	Electronic Devices and Circuits	4		
		Mechanical Engineering Workshop	1				
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Electrical Machines	4	Technical Report Writing	3	Technical Elective I	4	Technical Elective III	4
Electromagnetic Field Theory	3	Professional Ethics	3	Technical Elective II	4	Technical Elective IV	4
Communication Systems	4	Breadth Core I	4	Entrepreneurship	3	Technical Elective V	3
Linear Control Systems	4	Breadth Core II	4	Applied Thermodynamics	3	Design Project (II)	3
Basic Mechanical Engineering	3	Engineering Economics and Management	3	Design Project (I)	3		

Note:

- List of technical elective courses for undergraduate program can be obtained from the department.
- Internship of continuous 6-8 weeks is mandatory for the completion of degree.
- The University has policy of full compliance to the guidelines/requirements prescribed by HEC/ PEC for the degree program.





Master of Science in Electrical Engineering

Program Duration: 2 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of education with 4-Years bachelor degree in relevant discipline recognized by HEC/PEC, minimum CGPA 2.5/4.00 or 1st division (annual system)
- The Department will hold a written test on a notified date, the candidate appearing in the test must obtain at least 50% marks to qualify for interview.

INTRODUCTION

The program is structured around a core of knowledge related to analytical and management tools, supplemented by advanced technical electives in the areas of Power Systems Engineering and Electronics & Communication Engineering. It also serves the individuals concerned in harnessing their potential for PhD studies. Consisting of 30 credit hours, the students must study eight subjects of 3 credit hours each. In addition, he/she will submit a research thesis of 6 credit hours or study two extra subjects in lieu of thesis. The detail of the program is given in the curriculum. The degree is offered with or without a thesis.

CAREER PROSPECTS

This program has been designed for working professionals who wish to enhance their technical skills for career advancement. Students will gain ability to use advance mathematics and stochastic processes for analysis of engineering problems, acquire understanding and appreciation of concepts related to their choice of field such as Power, Communication and Electronics Engineering. The program enhances the strength of the students in the area of their interest and makes them prepared to compete in higher intellectual and academic pursuits such as PhD programs.

LIST OF CORE COURSES

Power Systems Engineering:

- Advanced Power System Analysis
- Power System Planning
- Power Quality
- Advanced Power System Protection
- Advanced High Voltage Engineering
- Power System Circuit Breakers and Substations
- Power System Operation and Control
- Transients in Power Systems

Electronics & Communication Engineering:

- Information Theory and Source Coding
- Stochastic Processes
- Advanced Digital Communication
- Advanced Wireless Communications
- Advanced Digital Signal Processing
- Advanced Computer and Communication Networks
- Signal Detection and Estimation
- Advanced Optical Communications

Note:

- List of elective courses for graduate program can be obtained from the department.
- The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Core /Elective Course	3	Core /Elective Course	3	Core /Elective Course	3	Research Thesis/Elective	3
Core /Elective Course	3	Core /Elective Course	3	Core /Elective Course	3		
Core /Elective Course	3	Core /Elective Course	3	Research Thesis/Elective	3		



Doctor of Philosophy in Electrical Engineering



Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BS/MS/MPhil or Equivalent degree from HEC/PEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- A Graduate Record Examination (GRE) test administered by the Education Testing Service, or a graduate admission test administered by the Education Testing Council, or an equivalent UOL test developed by UOL is mandatory to pass.
- For the interview, the applicant shall also be required to submit a 'Statement of Purpose'.

INTRODUCTION

The PhD degree is the highest degree program offered by the Department of Electrical Engineering, in compliance with HEC guidelines. The program of 78 credit hours requires the completion of 48 credit hours of course work along with the passing of a comprehensive examination and 30 credit hours of the research thesis. In the case of those candidates who have previously completed a graduate degree in the same discipline (MS/MPhil or equivalent), they will receive credit for prior coursework for not more than 50% of the total credit requirement of the program.

CAREER PROSPECTS

The PhD program in Electrical Engineering has been designed to provide graduate engineers with a platform to focus their research in the sub-area of Electrical Engineering such as Power, Communication, Electronics and Control Engineering or a mix thereof. The completion of the program facilitates the engineers their entry into the academic arena and to take possession of their field. The student pursues theoretical and empirical studies supported by the relevant software to confirm the results

obtained. The research area is determined by the student's interest and that of the research adviser. External collaboration/funding is always encouraged in the field of research.

LIST OF COURSES

- Advanced Power System Analysis
- Power System Planning
- Power Quality
- Advanced Power System Protection
- Power System Operation and Control
- Transients in Power Systems
- Information Theory and Source Coding
- Stochastic Processes
- Advanced Digital Communication
- Advanced Wireless Communications
- Advanced Digital Signal Processing
- Advanced Computer and Communication Networks
- Signal Detection and Estimation
- Advanced Optical Communications
- Insulation Coordination in Power Systems
- Power System Modeling and Analysis
- Power System Distribution
- Power System Reliability
- Power System Restructuring
- Energy Management
- Power System Stability and Control
- Flexible AC Transmission
- High Voltage DC Transmission Systems
- Distributed Generation & Micro grids
- Power System Optimization
- Error Control Coding
- Advanced Communication Systems
- Advanced Satellite Communications
- Statistical Signal Processing
- Image and Video Processing
- Speech and Audio Processing
- Antenna Theory and Design
- RF Circuit Design
- Theory and Design of Microwave Filters
- Radiation and Propagation of Electromagnetic Waves
- Navigation and Radar Systems
- Electromagnetic Compatibility
- Cryptography and Network Security
- Cyber Security
- Adaptive Filter Theory
- Wireless Sensor Networks
- Embedded Systems
- Bioelectronics
- Photonic Devices
- VLSI Design
- Advanced Computer Architecture
- Operating Systems
- Optimization Techniques
- Operations Research
- Renewable Energy Systems
- Solar Photovoltaics Systems
- Industrial Drives
- Advanced Power Electronics
- Advanced Control Systems
- Digital Control Systems
- Linear Control Systems
- Non-Linear Control Systems
- Optimal Control Systems
- Adaptive Control Systems
- Robust Control Systems
- Stochastic Control Systems
- Robotics and Control
- System Identification
- Chaos Theory & Fractals
- Machine Learning
- Data Mining Concepts and Algorithms
- Big Data Analytics
- Internet of Things
- Artificial Intelligence
- Artificial Neural Networks
- Fuzzy Control
- Electric and Hybrid Vehicles

Note: A comprehensive list of course for the PhD program can be obtained from the department.

ROAD MAP				TOTAL SEMESTERS 06			TOTAL CREDIT HOURS 78		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Course I	3	Course V	3	Course IX	3	Course XIII	3	Thesis	30
Course II	3	Course VI	3	Course X	3	Course XIV	3		
Course III	3	Course VII	3	Course XI	3	Course XV	3		
Course IV	3	Course VIII	3	Course XII	3	Course XVI	3		



HoD's MESSAGE

At Mechanical Engineering Department, our focus is to enhance employability of our graduates and to provide an excellent foundation for higher education. Our thrust is in line with jobs of the future taking our graduates well into the domains of disruptive and exponential technologies with courses in Artificial Intelligence, Robotics, Electric Vehicles, Renewable Energy, Programming, Multibody Dynamics, Project Management, Sustainable Development and Entrepreneurship. Learning of modern tools of Computer Aided Engineering is an integral part of our curriculum design. No idea is moonshot for our students, and we nurture creativity by providing intellectual stimulus, freedom and designed spaces through open-ended labs, complex engineering activities, projects, and assignments. We believe that everyone is unique and learns in his or her own way, and we take pride in supporting this sacrosanct journey.

Dr Mohammad Aamir Khan

PhD in Robotics (ITA), MSc in
Automotive Product Engineering (UK),
BSc in Mechanical Engineering (PAK)

MISSION STATEMENT

The Department of Mechanical Engineering is committed to:

- Provide a high quality, up-to-date and well recognized academic program in Mechanical Engineering emphasizing sound application of scientific and engineering knowledge combined with technical skills.
- Prepare students for successful careers and produce graduates, who will become responsible and contributing leaders in industry and government with entrepreneurship and leadership qualities and lifelong learning skills necessary to meet society's changing needs and aspirations for technological advancements.
- Make students technically competent with excellent managerial and communication skills, while they acquire a solid background to perform diverse engineering functions and life-long learning skills.

INTRODUCTION

Department of Mechanical Engineering was permitted to induct its 1st batch in 2008 by Pakistan Engineering Council (PEC). Accreditation has been granted from PEC for Batches 2008-2016. In fall 2014, Department started its MS and PhD programs which were approved in November-2013 by the Academic Council of the University. Department provides a sound foundation in Science, Computational skills and Mathematics to solve engineering problems in areas such as Thermodynamics, Fluid Mechanics, Applied Mechanics, Design, Manufacturing Systems and Engineering Management & Economics.



SCAN THIS TO SEE
FACULTY LIST



Bachelor of Science in Mechanical Engineering



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By:
Higher Education Commission, Pakistan Engineering Council

Entry Requirements

- 12 Years of Education, FSc (Math, Physics and Chemistry), DAE (Mechanical), A-Level or Equivalent with Minimum 60% Marks.
- UOL Entry Test is mandatory.

INTRODUCTION

BSME at the University of Lahore emphasizes in Thermal Sciences, Manufacturing & Production Engineering, Mechanics, Design & Vibrations, Fluid Mechanics, Control Engineering, Power, Energy and Quality Control. It offers students an opportunity to study in a wide variety of subjects with practical training. Moreover, the program also includes the industrial tours of prestigious organizations of public/private sectors, to enhance student exposure and experience. The curriculum includes analytical tools, creative thought, communication skills and their applications in engineering to solve the engineering problems of the real world.

OUTCOME BASED EDUCATION (OBE) SYSTEM

In line with Washington Accord, OBE system has successfully been implemented in the Department of Mechanical Engineering resulting in Level-II accreditation by PEC in 2021.

PROGRAM EDUCATIONAL OBJECTIVES

Program Educational Objectives (PEOs), which highlight the attributes to be achieved a few years after a student graduates, developed in-line with the department's mission are listed below:

PEO-1: Employable graduates with in-depth knowledge and sound understanding of principles of Mechanical Engineering with a quest of lifelong learning.

PEO-2: Graduates demonstrating the capacity to assume social, environmental and ethical responsibility in the national and global perspective.

PEO-3: Graduates who can communicate and manage effectively with those inside and outside of Engineering Community.

PEO-4: Graduates with capability to be effective team members and take a leadership role in research, design, innovation, implementation and operation of Mechanical and related systems.

CAREER PROSPECTS

Mechanical Engineers are the backbone of a wide range of industries including automotive, aerospace, manufacturing, space heating and cooling, machinery design, oil and gas, marine, power generation, materials processing, textile, defence, construction, process industry, education etc. In all of these industries, they may work in operations or Research and Development sector. Engineers having their OBE-based degrees as per Washington Accord have the opportunities to compete and excel globally.

PROGRAM LEARNING OUTCOMES (PLOs)

The Department of Mechanical Engineering has adopted the following twelve graduate attributes as PLOs. Course learning outcomes (CLOs) in each course are designed and mapped with these attributes so that these PLOs are achieved by the graduates.

1. Engineering Knowledge	7. Environment and Sustainability
2. Problem Analysis	8. Ethics
3. Design/Development of Solutions	9. Individual and Teamwork
4. Investigation	10. Communication
5. Modern Tool Usage	11. Project Management
6. The Engineer and Society	12. Lifelong Learning



ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Mathematics-1	3	Computer Aided Drawing-I	1	Pakistan Studies	2	Electronics Engineering	3
Applied Physics	2	Electrical Engineering	3	Engineering Mechanics-II: Dynamics	3	Thermodynamics-II	3
Applied Chemistry	2	Mathematics-2	3	Mechanics of Materials-I	3	Social Sciences (Elective)	2
Functional English	2	Communication Skills	2	Thermodynamics-I	3	Machine Design-I	3
Computer Systems and Programming	3	Workshop Practice	2	Technical Report Writing and Presentation Skills	2	Mechanics of Materials-II	3
Engineering Drawing and Graphics	2	Engineering Mechanics-I: Statics	3	Engineering Mechanics Lab	1	Mechanics of Materials Lab	1
Introduction to Engineering	1	Engineering Materials	3	Linear Algebra and Differential Equations	3	Fluid Mechanics-I	3
				Computer Aided Drawing-II	1	Thermodynamics Lab	1
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Fluid Mechanics-II	3	Engineering Statistics	3	Engineering Economics	2	Islamic Studies/ Ethics	2
Numerical Analysis	3	Technical Elective-I	2	Mechanical Vibrations	3	Technical Elective-III	2
Machine Design -II	2	Control Engineering	4	Internal Combustion Engines	3	Management Elective	2
Instrumentation and Measurement	3	Mechanics of Machines	3	Technical Elective-II	2	Entrepreneurship	1
Heat & Mass Transfer	3	Heating, Ventilating and Air Conditioning	3	Senior Design Project-I	3	Power Plants	3
Manufacturing Processes	4	Heat Transfer and HVAC Lab	1	Mechanisms and Mechanical Vibrations Lab	1	IC Engines & Power Plants Lab	1
Fluid Mechanics Lab	1	Health, Safety and Environment	1	Introduction to Finite Element Analysis	3	Senior Design Project-II	3

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ELECTIVE COURSES

TECHNICAL

- Renewable Energy Technology
- Gas Dynamics
- Aerodynamics
- Computational Fluid Dynamics (CFD)
- Maintenance Engineering
- Introduction to Mechatronics
- Mechanical Engineering Design
- Digital Control
- Introduction to Artificial Intelligence (AI)

- Modeling and Simulation
- Turbomachinery
- Modern Wind Turbines
- Nonconventional Manufacturing/
- Additive Manufacturing
- Vehicle Concept Design/
- Autonomous Design
- Vehicle Dynamics
- Dynamics of Robots
- Hybrid and Electric Powertrains

MANAGEMENT

- Operations Management
- Total Quality Management
- Project Management
- Operations Research
- Engineering Law

SOCIAL SCIENCES

- Professional Ethics
- Psychology & Human Behavior



Location: Defence Road Campus, Lahore.

- 16 Years of Education, BS (Mechanical Engineering) with Minimum of 2.50/4.00 CGPA for semester system or 60% in Annual System from HEC/PEC recognized university.
- UOL Admission test and Interview with min. 50% score in each

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Doctor of Philosophy in Mechanical Engineering

Program Duration: 3 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore.

Recognized By: Education Commission

Entry Requirements

- 16/18 Years of Education, BS/MS/MPhil or Equivalent degree from HEC/PEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- GRE, GAT or UOL admission test with 70% score.
- Statement of Purpose (SOP).
- Interview by Departmental Admission Committee (DAC).

INTRODUCTION

PhD degree is the highest degree program offered by the Mechanical Engineering Department, in compliance with HEC guidelines. Currently PhD program is being offered in Mechanical Engineering emphasizing the fields of Control, Automation and Robotics, Thermal & Fluid Sciences, Manufacturing & Design & Analysis. The program of 78 credit hours requires completion of 48 credit hours of coursework (subject to change according to the level and discipline of the previous degrees of the student at admission), along with passing of a comprehensive examination, and 30 credit hours of research dissertation fulfilling all the requirements prescribed by the university.

CAREER PROSPECTS

The graduate of this program will primarily find position in the academic sectors. Moreover, Government as well as private sector R&D institutions and consultancy firms also employ graduates of this program program.

LIST OF COURSES

- Advanced Fatigue Fracture Analysis
- Advanced Aerodynamics
- Advanced Finite Element Methods
- Advanced Fluid Mechanics
- Advanced Heat Transfer
- Advanced Manufacturing Processes
- Advanced Measurements and Instrumentation
- Advanced Numerical Analysis
- Advanced Power Plant Systems
- Advanced Solid Mechanics
- Advanced Stress Analysis
- Advanced Thermodynamics
- Advanced Transport Phenomena
- Advanced Turbomachinery
- Casting and Solidification of Materials
- Combustion and Environment
- Computational Fluid Dynamics
- Condition Monitoring of Rotating Machines
- Continuum Mechanics
- Corrosion Engineering
- Design of Experiments
- Design Optimization and Analysis Techniques
- Fracture Mechanics
- Hydrogen and Fuel Cell Engineering
- Information Systems Analysis and Design
- Materials for High Temperature Applications
- Mechanics of Composite Materials
- Micro electromechanical Systems
- Non-linear Heat Transfer
- Non-linear Vibration
- Operations Research
- Processing of Composites
- Project Management
- Reliability and Quality Engineering
- Renewable Energy Systems
- Research Methodology
- Robotics and Parallel Mechanisms
- Supply Chain Management in Engineering
- System Dynamics and Controls
- Theory of Elasticity
- Theory of Plasticity
- Theory of Plates and Shells
- Transport Processes in Energy Systems
- Turbulence Modeling
- Welding & Nondestructive Testing

Note:

- This tentative road map is for students admitted to PhD with relevant BS degree.
- For students with background education, other than Mechanical Engineering, additional coursework may be prescribed by the DAC.
- For students admitted with MS as latest degree, exemption in coursework may be granted as per HEC/UOL policy.

ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Course I	3	Course V	3	Course IX	3	Course XIII	3	Dissertation / Thesis	30
Course II	3	Course VI	3	Course X	3	Course XIV	3		
Course III	3	Course VII	3	Course XI	3	Course XV	3		
Course IV	3	Course VIII	3	Course XII	3	Course XVI	3		





HoD's MESSAGE

The Department of Civil Engineering is committed to excellence in teaching attributing to the policies and guidelines of Higher Education Commission (HEC) and Pakistan Engineering Council (PEC). The Civil Engineering program is fully accredited with HEC and PEC under Outcome Based Education (OBE) system. Department keeps its doors open for the students to gain knowledge, enhance professional capacity, attain moral and ethical values, groom their personality, excel in their career, and innovate in their discipline. Our mission is to educate and train our graduates by providing high quality engineering education and research skills for sustainable socio-economic development of the country. Our program is well equipped to the needs of 21st century engineering education standards with all essential tools to solve real-world problems and professional challenges. The Department's rigorous classroom training coupled with its practical education policies, research guidance, and industrial visits leads the students towards excellence in their academic and professional careers.

Dr. M. Kaleem Ullah
PhD
Charles Sturt University,
New South Wales, Australia

MISSION STATEMENT

To educate and train the students of Civil Engineering through high quality education and research, and make them competent professionals to develop innovative solutions for sustainable socio-economic development.

INTRODUCTION

The Department of Civil Engineering is a Constituent Department of The University of Lahore, (Lahore Campus). It has been providing quality education to its students in improving their competencies for novel techniques and methods to fulfill the needs of sustainable development. This diverse platform is established for providing excellence in engineering education and facilitating its students to acquire the advanced knowledge. The Department continues to promote research activities to find innovative solutions of pragmatic engineering problems by using available UOL research facilities of international standards. The graduates from the department are serving in reputed national (e.g., National Engineering Services of Pakistan (NESPAK), Provincial Irrigation Department (PID), Communication & Works Dept. (C & W), Irrigation, Water & Power Development Authority (WAPDA) and international (Saudi Arabia, U.A.E, China, Japan etc.) organizations. Some of our graduates are pursuing higher degrees (MS/PhD) in international well-reputed institutions of Europe, Middle East, Asia & North America regions. The BS Civil Engineering Program was started in Fall-2009, followed by MS and PhD in civil engineering in ,Fall-2013 and Winter-2014, respectively. The Civil Engineering Department has now started the Outcome Based Education (OBE) System to bring the education of the University at par with the International standards. Efforts, are also being made to inculcate professional ethics in our graduates. The Department has established National and International Industrial Advisory Boards and is blessed with highly qualified and experienced teaching research faculty. The faculty has published books, research papers and written technical manuals/ guidelines.



SCAN THIS TO SEE
FACULTY LIST

Bachelor of Science in Civil Engineering



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Pakistan Engineering Council,
Higher Education Commission,
Punjab Higher Education Commission

Entry Requirements

- 12 Years of Education, FS.c (Math, Physics and Chemistry), DAE (Civil), A-Level (Math, Physics & Chemistry) or Equivalent with Minimum 60% Marks.
- UOL Entry Test is mandatory.

INTRODUCTION

Civil Engineering deals with development in terms of conceiving, planning, designing, construction, managing, maintaining and rehabilitating infrastructure and building facilities. This is diversified discipline which deals with all types of human endeavors related to the growth of civilization in the shape of buildings, transportations system, industry, power systems, water resources, environment and geo-science. Civil Engineers play vital role in various capacities (client, consultant, contractor and other related positions) to execute the visualizations and routinely faced multi-faceted, dynamic challenges in civil engineering projects.

The Department of Civil Engineering is providing excellence to its students by improving their competencies in novel techniques and methods to fulfill the needs of the sustainable built environment. The diverse platform has been established to provide quality engineering education which will allow students to acquire the most advanced knowledge. Civil Engineering is a challenging profession which requires knowledge of mathematics, applied sciences and computational skills to solve problems related to this profession.

The Civil Engineering Program has adopted the Outcome Based Education (OBE) system since Fall 2017 fully in lined with the requirements and guidelines of Pakistan Engineering Council. In addition, the department is developing industrial linkages and collaboration with National and International Development, construction, maintenance, consulting, research and academic institutes.

CAREER PROSPECTS

The Civil Engineering graduates get jobs in various organizations e.g., consulting, and construction firms to execute the projects such as roads, buildings, sewerages housing societies and quality testing laboratories. Our graduates are employed in all major construction projects carried out by Public and Private sectors. Civil Engineering graduates can also join research and take up teaching profession or they can open their own independent firms for consultancy, construction and maintenance services.

PROGRAM EDUCATIONAL OBJECTIVES

The Program Educational Objectives (PEOs), developed in line with the departmental mission highlight civil engineering program's goal to be achieved four to five years after students have graduated are listed below

PEO-1: Graduates would exhibit proficiency of applying the knowledge and skills to solve civil engineering problems.

PEO-2: Graduates would undertake professional practice considering ethics, legal, societal, health, safety and environmental implications.

PEO-3: Graduates would exhibit effective communication, remain engaged in continuous learning, and participate in culturally diverse and interdisciplinary teams.

PEO-4: Graduates would demonstrate leadership, research and innovation capabilities.



ROAD MAP		TOTAL SEMESTERS 08			TOTAL CREDIT HOURS 136		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English Language Skills	2	Computer Programming	3	Humanities / Social Sciences (Elective -A)	3	Quantity Surveying & Estimation	2
Applied Calculus / Math -1	3	Engineering Mechanics	4	Numerical Analysis / Math- III	3	Structural Analysis - I	2
Engineering Drawing	3	Engineering Surveying	3	Advanced Engineering Surveying	3	Soil Mechanics	4
Civil Engineering Materials	3	Islamic Studies	2	Mechanics of Soils - I	3	Communication Skills & Technical Writing	3
Pakistan Studies	1	Engineering Geology	2	Fluid Mechanics	4	Civil Engineering Drawing & Graphics	3
Basic Electro Mechanical Engineering	4	Differential Equations / Math II	3	Construction Engineering	2	Engineering Economics	2
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Probability Methods in Engineering/ Math-IV	3	Reinforced Concrete Design- I	4	Architecture & Town Planning	3	Structural Engineering	3
Transportation Planning & Engineering	2	Mechanics of Solids - II	3	Environmental Engineering- II	3	Hydraulics & Irrigation Engineering	4
Hydrology & Water Resources Management	3	Advanced Fluid Mechanics	4	Reinforced Concrete Design -II	4	Design of Structures	3
Structural Analysis - II	2	Environmental Engineering- I	3	Geotechnical & Foundation Engineering	4	Highway & Traffic Engineering	3
Steel Structures	3	Construction Management	3	Geo-Informatics	2	Management Sciences/ Professional Practice (Disaster Management) Elective -B	2
Professional Ethics	2			Civil Engineering Project (Part-A)	3	Civil Engineering Project (Part-B)	3

Note: Survey camp (at least 2 weeks) is compulsory for graduation. Internship (4-6 weeks) is compulsory for graduation.

The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.



Master of Science in Civil Engineering



Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission,
Punjab Higher Education Commission

Entry Requirements

- 16 Years of Education, BS (Civil Engineering) or other relevant discipline from HEC/PEC recognized university with Minimum of 2.50/4.00 CGPA for semester system or 60% Marks in Annual System.
- UOL Entry test & Interview, Clearance of GAT conducted by the National Testing Service (NTS) and valid for two years.

INTRODUCTION

Master of Science in Civil Engineering is designed to produce graduates with enhanced knowledge in the following areas of focus:

- Structures
- Geotech
- Environmental
- Hydraulics and Irrigation
- Health Safety & Environment (HSE)

The degree program focuses on providing skills required in different fields of Civil Engineering. The Master degree shall be awarded after a minimum of 1.5/02 years and not more than three (03) years after the registration of the student in the program; provided that for students who are unable to complete the program within three (03) years, the BASR may grant an extension in case of exceptional circumstances; provided further that in no event shall the Master degree be awarded more than four (04) years after the registration of the student in the program. Under the program, student is required to undertake minimum of 24 credit hours of course work and 6 credit hours of research depending upon the area of focus thus making a total

of minimum 30 credit hours. For nonthesis program, student has to study two extra subjects (6 credit hours) in lieu of thesis. The duration of the semester would be 16 - 18 weeks.

CAREER PROSPECTS

The students of the graduate program are well equipped with the knowledge of Civil Engineering and research jobs in Public Sector departments, industries, research centers, teaching and technical institutions. They are made capable enough to develop their own firms, research centers and consultancy services to Public and Private sectors.



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Core Course	3	Core Course	3	Core Course	3	Core Course	3
Core Course	3	Core Course	3	Elective Course	3	Elective Course (Allocation of Research Topic & Supervisor)	3
SEMESTER 5			CR. HR.	SEMESTER 6			CR. HR.
Thesis Research-1			3	Thesis Research-2			3



AREAS OF FOCUS

STRUCTURES CORE COURSES

Minimum any Six of the following:

- Advanced Structural Analysis
- Advanced Reinforced Concrete
- Properties of Structural Materials
- Prestressed Concrete
- Design of Steel Structures
- Seismic Design of Structures
- Structural Mechanics
- Stability of Structures
- Bridge Engineering
- Numerical Methods in Engineering

ELECTIVES

Maximum any Two of the following:

- Analysis & Design of Structures
- Theory of Plates and Shells
- Structural Dynamics
- Seismology and Earthquake Engineering
- Seismic Design of Masonry Structures
- Structural Optimization
- Advanced Concrete Technology-I
- Advanced Concrete Technology-II
- Advanced Soil Mechanics
- Foundation Engineering-I
- Foundation Engineering-II
- Geotechnical Investigation
- Environmental Geo-techniques
- Hydraulic Structures
- Irrigation Engineering and Practice
- Application of Remote Sensing & Geographical Information System in Civil Engineering
- Environmental Management and Impact Assessment
- Structural Mechanics of Concrete
- Hydro Power Engineering

Required : (Thesis Research work)

GEOTECH CORE COURSES

Minimum any Six of the following:

- Advanced Soil Mechanics
- Foundation Engineering-I
- Foundation Engineering-II
- Dam Engineering
- Geotechnical Investigation
- Soil Improvement Techniques
- Earth Retaining Structures
- Environmental Geo-Techniques
- Soil Dynamics
- Numerical Methods in Engineering

ELECTIVES

Maximum any Two of the following:

- Rock Engineering
- Geotechnical Engineering in Professional Practice
- Hydraulic Structure
- Hydro Power Engineering
- Applied Hydrology
- Sediment Transport
- Mechanics of Fluids
- Application of Remote Sensing & Geographical Information System in Civil Engineering
- Soil Erosion & Watershed Management
- Ground Water Engineering
- Advanced Reinforced Concrete
- Properties of Structural Materials
- Prestressed Concrete
- Design of Steel Structures
- Seismic Design of Structures
- Environmental Management and Impact Assessment

Required : (Thesis Research work)

ENVIRONMENTAL CORE COURSES

Minimum any Six of the following:

- Environmental Management and Impact Assessment
- Physico-Chemical Process in Environmental System
- Wastewater Treatment and Design
- Experimental Methods in Environmental Engineering
- Industrial and Hazardous Waste Management
- Water Supply and Wastewater Collection System
- Environmental Chemistry and Microbiology
- Solid Waste Management
- Air and Noise Pollution Control
- Environmental Pollution Control

ELECTIVES

Maximum any Two of the following:

- Ecology and Risk Assessment
- Environmental Health and Safety
- Water Quality Modeling
- Marine Pollution and Control
- Modeling of Environmental Systems
- Agricultural Pollution and Control
- Hydraulic Structures
- Applied Hydrology
- Soil Improvement Techniques
- Environmental Geo-Techniques
- Properties of Structural Materials

Required : (Thesis Research work)

HYDRAULICS & IRRIGATION CORE COURSES

Minimum any Six of the following:

- Hydraulic Structures
- Advanced Fluvial Hydraulics
- Hydro Power Engineering
- Irrigation Engineering and Practice
- Applied Hydrology
- Sediment Transport
- Mechanics of Fluids
- Application of Remote Sensing & Geographical Information System in Civil Engineering
- River Engineering & Flood Management
- Hydrological Modeling

ELECTIVES

Maximum any Two of the following:

- Drainage Engineering
- Computer Aided Design of Hydraulic Structures
- Soil Erosion & Watershed Management
- Water Resources Planning and Management
- Ground Water Engineering
- Advanced Reinforced Concrete
- Property of Structural Materials
- Prestressed Concrete
- Seismic Design of Structures
- Bridge Engineering
- Advanced Soil Mechanics
- Foundation Engineering-I
- Dam Engineering
- Geotechnical Investigations
- Soil Improvement Techniques
- Earth Retaining Structures
- Environmental Management and Impact Assessment
- Numerical Methods in Engineering
- Environmental Geo-Techniques

Required : (Thesis Research work)

HEALTH SAFETY & ENVIRONMENT (HSE) CORE COURSES

Minimum any Six of the following:

- Environmental Management and Impact Assessment
- Physico-Chemical Process in Environmental System
- Wastewater Treatment and Design
- Experimental Methods in Environmental Engineering
- Industrial and Hazardous Waste Management
- Water Supply and Wastewater Collection System
- Environmental Chemistry & Microbiology
- Solid Waste Management
- Air & Noise Pollution Control
- Environmental Pollution Control

ELECTIVES

Maximum any Two of the following:

- Environmental & Health Risk Assessment
- Environmental, Health and Safety Management
- Health, Safety & Environment and Quality Audits
- Disaster Management and Preparedness
- Industrial Ecology
- Project Management, Planning and Control
- Rules and Regulations in Environmental Protection
- Environmental Engineering Calculations
- Environmental Toxicology
- Fire Protection & Safety Engineering Technology
- Health, Safety and Environmental Management and Economy
- Ecology and Risk Assessment
- Occupational Health and Safety

Required : (Thesis Research work)



Doctor of Philosophy in Civil Engineering

Program Duration: 3 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore.

Recognized By:
Higher Education Commission,
Punjab Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BS/MS/MPhil or Equivalent degree from HEC/PEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- A Graduate Record Examination (GRE) test administered by the Education Testing Service, or a graduate admission test administered by the Education Testing Council, or an equivalent UOL test developed by UOL is mandatory to pass.
- For the interview, the applicant shall also be required to submit a Statement of Purpose.

INTRODUCTION

The Department of Civil Engineering offering PhD program in Civil Engineering which required course work and dissertation/ research to be completed in one of the following four areas of interest given below:

- Structures
- Geotech
- Environmental
- Hydraulics and Irrigation

The student must select one of the above mentioned areas of interest. The PhD degree is the highest degree program offered by the Department of Civil Engineering, in compliance with HEC guidelines. The program of 78 credit hours requires the completion of 48 credit hours of course work along with the passing of a comprehensive examination and 30 credit hours of the research thesis. In the case of those candidates who have already completed

a graduate degree in the same discipline (MS/MPhil or equivalent), they will receive credit for prior coursework for not more than 50% of the total credit requirement of the program.

The subjects have to be passed obtaining accumulative CGPA 3.0. It is a mandatory to get at least CGPA 3.0 out of 4.0 as required by HEC to appear in Ph.D. comprehensive exam, otherwise the candidate will not be eligible to continue further Ph.D. research studies. It is mandatory that student must register and successfully complete 30 credit hours of dissertation research to fulfill the minimum requirements of Higher Education Commission (HEC).

The PhD degree shall be awarded after a minimum of three (3) years and not more than eight (8) years after the registration of the student in the program; provided that for students who are unable to complete the program within eight (8) years, BASR may grant an extension in case of exceptional circumstances beyond the student's control; provided further that in no event shall the PhD degree be awarded more than ten (10) years after the registration of the student in the program.

CAREER PROSPECTS

The graduates will be fully equipped with the skills and knowledge in various areas of Civil Engineering to deal with issues and challenges in research, industries, etc. in both public and private sectors within and outside Pakistan. They will be capable to develop their own think tanks, research centers and academic institutions as well as make positive contribution to national and international socio-economic development through innovative solutions.



ROAD MAP				TOTAL SEMESTERS 06			TOTAL CREDIT HOURS 78		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Elective I	3	Elective V	3	Elective IX	3	Elective XIII	3	Dissertation	30
Elective II	3	Elective VI	3	Elective X	3	Elective XIV	3		
Elective III	3	Elective VII	3	Elective XI	3	Elective XV	3		
Elective IV	3	Elective VIII	3	Elective XII	3	Elective XVI	3		



AREAS OF INTEREST

STRUCTURES

Six courses from the following list not previously studied:

- Advanced Structural Analysis
- Advanced Reinforced Concrete
- Properties of Structural Materials
- Prestressed Concrete
- Design of Steel Structures
- Seismic Design of Structures
- Structural Mechanics
- Stability of Structures
- Bridge Engineering
- Analysis and Design of Structures
- Theory of Plates and Shells
- Structural Dynamics
- Seismology and Earthquake Engineering
- Seismic Design of Masonry Structures
- Structural Optimization
- Fracture Mechanics of Concrete
- Advanced Concrete Technologies-I
- Advanced Concrete Technologies-II
- Finite Element Analysis
- Analysis and Design of Masonry Structure
- Reliability Based Structural Analysis
- Fiber reinforced Polymer Concrete
- Coastal Engineering
- Structural Fire Engineering
- Nonlinear Structural Analysis
- Advanced Mechanics of Solids
- Advanced Materials of Construction
- Computer Aided Design of Hydraulic Structure
- Foundation Engineering-I
- Foundation Engineering-II
- Dam Engineering
- Geotechnical Investigation
- Earth Retaining Structures
- Rock Engineering
- Environmental Management and Impact Assessment
- Dissertation Research

ENVIRONMENTAL

Six courses from the following list not previously studied:

- Environmental Management and Impact Assessment
- Physico-Chemical Process in Environmental System
- Wastewater Treatment and Design
- Experimental Methods in Environmental Engineering
- Industrial and Hazardous Waste Management
- Water Supply and Wastewater Collection System
- Environmental Chemistry and Microbiology
- Solid Waste Management
- Air and Noise Pollution Control
- Ecology and Risk Assessment
- Environmental Health and Safety
- Water Quality Modeling
- Marine Pollution and Control
- Modeling of Environmental Systems
- Agricultural Pollution and Control
- Environmental Pollution and Control
- Dissertation Research

HYDRAULICS AND IRRIGATION

Six courses from the following list not previously studied:

- Design of Hydraulic Structures
- Advanced Fluvial Hydraulics
- Hydro Power Engineering
- Irrigation Engineering and Practices
- Applied Hydrology
- Sediment Transport
- Mechanics of Fluids
- Application of Remote Sensing & Geographical Information System in Civil Engineering
- Drainage Engineering
- Computer Aided Design of Hydraulic Structures
- River Engineering and Flood Management
- Soil Erosion and Watershed Management
- Bridge Engineering
- Coastal Engineering
- Dam Engineering

- Environmental Management and Impact Assessment
- Hydrological Modeling
- Water Resources Planning and Management
- Ground Water Engineering
- Flood Risk Management
- Applied Hydraulics
- Statistical Hydrology
- Reinforced Concrete Structures
- Seismic Design of Structures
- Dissertation Research

GEOTECH

Six courses from the following list not previously studied:

- Advanced Soil Mechanics
- Foundation Engineering-I
- Foundation Engineering-II
- Dam Engineering
- Geotechnical Investigation
- Soil Improvement Techniques
- Earth Retaining Structures
- Environmental Geo-Techniques
- Rock Engineering
- Soil Dynamics
- Numerical Method in Engineering
- Geotechnical Engineering in Professional Practice
- Properties of Structural Materials
- Seismic Design of Structures
- Stability of Structures
- Bridge Engineering
- Seismology and Earthquake Engineering
- Environmental Management and Impact Assessment
- Coastal Engineering
- Advanced Materials of Construction
- Dissertation Research



HoD's MESSAGE

Welcome to the Department of Computer Engineering at The University of Lahore. Our vision is to empower prospective computer engineers with engineering principles, skills and ethics to make a difference in the world. We aim to provide a world class learning environment to our students. Our faculty is highly qualified with specialized knowledge in the core areas of Computer Engineering that ensures the level of excellence in the research and academia. We provide state of the art lab facilities to our students to enhance hands-on experience and research output. In our Department, the students learn to work independently, think critically and find novel ideas to solve problems. We strive to produce highly skilled computer engineers who can address current and future challenges in the industry.

Best of Luck to all students of Computer Engineering!!!

Engr. Dr. Shahzadi Tayyaba
PhD
AIT, Bangkok, Thailand

MISSION STATEMENT

To produce the graduates with self-assured abilities, advanced technical knowledge, professional ethics and leadership skills to serve the community by making innovative contributions to their field.

INTRODUCTION

The Department of Computer Engineering is offering B.Sc. and MS programs in Computer Engineering. The curriculum formulated by HEC and PEC is followed. The Department actively organizes special lectures, seminars, trainings, tutorials, workshops and study tours for its students. The Department of Computer Engineering is dedicated towards providing the students the best quality of teaching, state of the art lab facilities, and research and development environment. Our main incentive is to develop and improve the professional and technical skills of our students.



SCAN THIS TO SEE
FACULTY LIST



Bachelor of Science in Computer Engineering



Program Duration: 4 Years
Timing: Morning (Monday-Friday)
Location: Defence Road Campus, Lahore.

Recognized By:

Higher Education Commission, Pakistan Engineering Council

Entry Requirements

- 12 Years of Education, F.Sc (Math, Physics and Chemistry), DAE (Telecom, Electronics, Electrical, Computer), ICS (Mathematics, Physics, Computer), A-Level or Equivalent with Minimum 60% Marks.
- UOL Entry Test is mandatory.

INTRODUCTION

The Bachelor of Science in Computer Engineering provides students the opportunity to achieve comprehensive engineering skills to design, construct, implement and perform maintenance of software and hardware components of computer systems and computer controlled equipment. The B.Sc. Computer Engineering program offers elective courses, such as Internet of Things, Artificial Intelligence, Machine Learning, Web Engineering, Image Processing, Cloud Computing, Cyber Security, Simulation and Modeling, Embedded Systems, Data Science, Mobile Application Development, Game Development, Software Quality Assurance, Robotics and Neural Networks & Fuzzy Logic.

B.Sc Computer Engineering follows Outcome Based Education (OBE) system and is accredited under level II (substantially equivalent to Washington Accord) from Pakistan Engineering Council (PEC). Each course has Bloom's Taxonomy based Course Learning Outcomes (CLOs) which are mapped to twelve Program Learning Outcomes (PLOs). Assessments and evaluation of theory and labs are linked with CLOs and PLOs. Industrial Advisory Board (IAB) of the Department provides feedback for the improvement of the program. The graduates of the Department are expected to demonstrate that they have attained a certain set of knowledge, skills and behavioural traits by the time of graduation.

PROGRAM EDUCATIONAL OBJECTIVES

The Program Educational Objectives (PEOs) are goals to be achieved in four to five years after the graduation. The graduates of the B.Sc. Computer Engineering program will develop into professional engineers who will be able to:

PEO-1: Apply in depth knowledge and skills to serve as outstanding professionals in the field of Computer Engineering.

PEO-2: Pursue professional development through advanced degrees and continuous learning.

PEO-3: Demonstrate integrity in profession and commitment to ethical and social responsibilities.



ROAD MAP		TOTAL SEMESTERS 08			TOTAL CREDIT HOURS 135		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Calculus and Analytical Geometry	3	Linear Algebra	2	Digital Logic Design	4	Differential Equations	3
Islamic Studies and Ethics	2	Circuit Analysis	4	Technical Writing and Presentation Skills	3	Data Structures and Algorithms	4
Information and Communication Technologies (ICT)	3	Computer Programming	4	Object Oriented Programming	4	Signals and Systems	4
Applied Physics	3	Electronic Devices and Circuits	4	Discrete Structures	3	Computer Architecture and Organization	4
Functional English	2	Communication Skills	2	Complex Variables and Transforms	3	Management Science-Elective - I	3
Computer Engineering Workshop	1	Pakistan Studies and Global Perspective	2				
Occupational Health and Safety	1						
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Microprocessors and Interfacing	4	Database Management Systems	4	Entrepreneurship (Management Science -Elective - II)	2	Social Science Elective-II	2
Digital Signal Processing	4	Computer Engineering Depth Elective (CEDE -I)	4	Digital System Design	4	Computer Engineering Depth Elective (CEDE-IV)	4
Computer Communication Networks	4	Computer Engineering Depth Elective (CEDE -II)	4	Cloud and Distributed Computing (CEDE-III)	4	Multi-Disciplinary Engineering Elective (MDEE- I)	3
Operating Systems	4	Software Engineering	3	Numerical Analysis	3	Final Year Design Project 2	3
Engineering Economics (Social Science-Elective I)	2	Probability and Statistics	3	Final Year Design Project 1	3	Multi-Disciplinary Engineering Elective (MDEE) -II	3

Note: Internship of 6-8 weeks is compulsory for graduation.
The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or Pakistan Engineering Council(PEC) for the degree program.

CAREER PROSPECTS

After completion of this degree, the graduating engineers will have bright careers in industry, software houses, academia and banking in areas of Information Technology, Web Development, Mobile Application Development, Databases, Software Quality Assurance and Testing, Project Management, Computer Controlled Systems, Automation and Robotics, Embedded Systems, Network Security & Cryptography, Biomedical, Telecommunication and Electronics.

PROGRAM LEARNING OUTCOMES (PLOs)

The department is following twelve PLOs as given below:

- Engineering Knowledge
- Problem Analysis
- Design/Development of Solutions
- Investigation
- Modern Tool Usage
- The Engineer and Society
- Environment and Sustainability
- Ethics.
- Individual and Team Work
- Communication
- Project Management
- Lifelong Learning

ELECTIVES

Computer Engineering Depth Electives:

- Internet of Things
- Artificial Intelligence and Machine Learning
- Web Engineering
- Cloud and Distributed Computing
- Data Science Tools and Techniques
- Image Processing and Analysis
- System and Network Security
- Embedded System Design
- System Programming
- Simulation and Modeling

Multi-Disciplinary Engineering Electives :

- Mobile Application Development
- Game Development
- Blockchain Technologies and Applications
- Neural Networks and Fuzzy Logic
- Human Computer Interaction
- Robotics and Automation
- Medical Electronics
- Neural Networks and Deep Learning



Master of Science in Computer Engineering



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- Education: Four years BS/BE/BSc degree in Computer Engineering, Software Engineering, Electrical Engineering, Electronic Engineering, Telecommunication Engineering, or a 4 years degree in any other related discipline of engineering from PEC accredited education institution with first division (Annual system) or CGPA of 2.5/4.0 (Semester System).
- No third division throughout the academic career.
- UoL Entry test and interview as per university policy/ GAT (General).
- The candidates will be required to complete the deficiency coursework prior to the MS coursework to ensure the pre-requisite competency in B.Sc.

INTRODUCTION

The Master of Science (MS) in Computer Engineering program is designed to prepare students for technically demanding careers in industry as well as for research in Computer Engineering or related fields. Computer Engineering is the creative application of engineering principles and methods to the design and development of hardware and software systems. MS Computer Engineering encompasses the design, simulation, analysis, development, testing, and evaluation of components, systems, and networks. The Department of Computer Engineering aims to bring its graduate students into contact with cutting edge technology in order to offer intellectual stimulus and provide a flexible professional profile, consistent with the ample spectrum of research and development opportunities within the field of Computer Engineering. The students of the MS Computer Engineering program are required to complete the coursework of 24 credit hours and a research work of 6 credit hours.

PROGRAM EDUCATIONAL OBJECTIVES

During the first few years after graduation, the graduates of the MS Computer Engineering Program are expected to:

1. Solve challenging problems in their professions through in-depth understanding and expertise in specialized areas of Computer Engineering.

2. Become leading academics and top quality engineers in ever-changing high-technology world.
3. Communicate their research findings as technical papers, conference proceedings and seminars.
4. Demonstrate research skills to pursue doctoral degree in Computer Engineering or a relevant field.

CAREER PROSPECTS

A Master's degree in Computer Engineering from the UoL provides graduates with a variety of options. While some graduates go on to PhD programs at prestigious universities throughout the world, others jump into working in design and management; microchips and computers; application-specific hardware and software systems; computer-aided design tools for industrial applications, aerospace, defense, software houses, and Internet of Things (IoT).

CORE COURSES

- Advanced Software Engineering
- Advanced Operating Systems
- Advanced Computer Networks
- Advanced Database Management Systems
- Advanced Algorithms Analysis & Design
- Information Theory and Coding
- Stochastic Processes
- Advanced Embedded System Design
- Advanced Computer Architecture
- Advanced Digital Systems Design
- Advanced Digital Signal Processing

GENERAL ELECTIVES

- Scientific Writing and Research Methodologies
- Advanced Mathematics for Engineers

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04			TOTAL CREDIT HOURS 30		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Core -1	3	Core -3	3	Specialization Elective – 2	3	Thesis-2 /additional graduate level course for non-thesis students	3
Core -2	3	Specialization Elective – 1	3	Elective – 3	3		
Elective – 1	3	Elective – 2	3	Thesis-1 /additional graduate level course for non-thesis students	3		

ELECTIVES

Signal and Image Processing:

- Statistical Signal Processing
- Video Signal processing
- Real Time DSP
- Speech and Audio Processing
- Array Signal Processing
- Multi Rate Signal Processing
- Advanced Digital Image Processing
- Machine Learning
- Pattern Recognition
- Advanced Computer Graphics
- Medical Image Processing
- Multimedia Systems
- Computer Vision

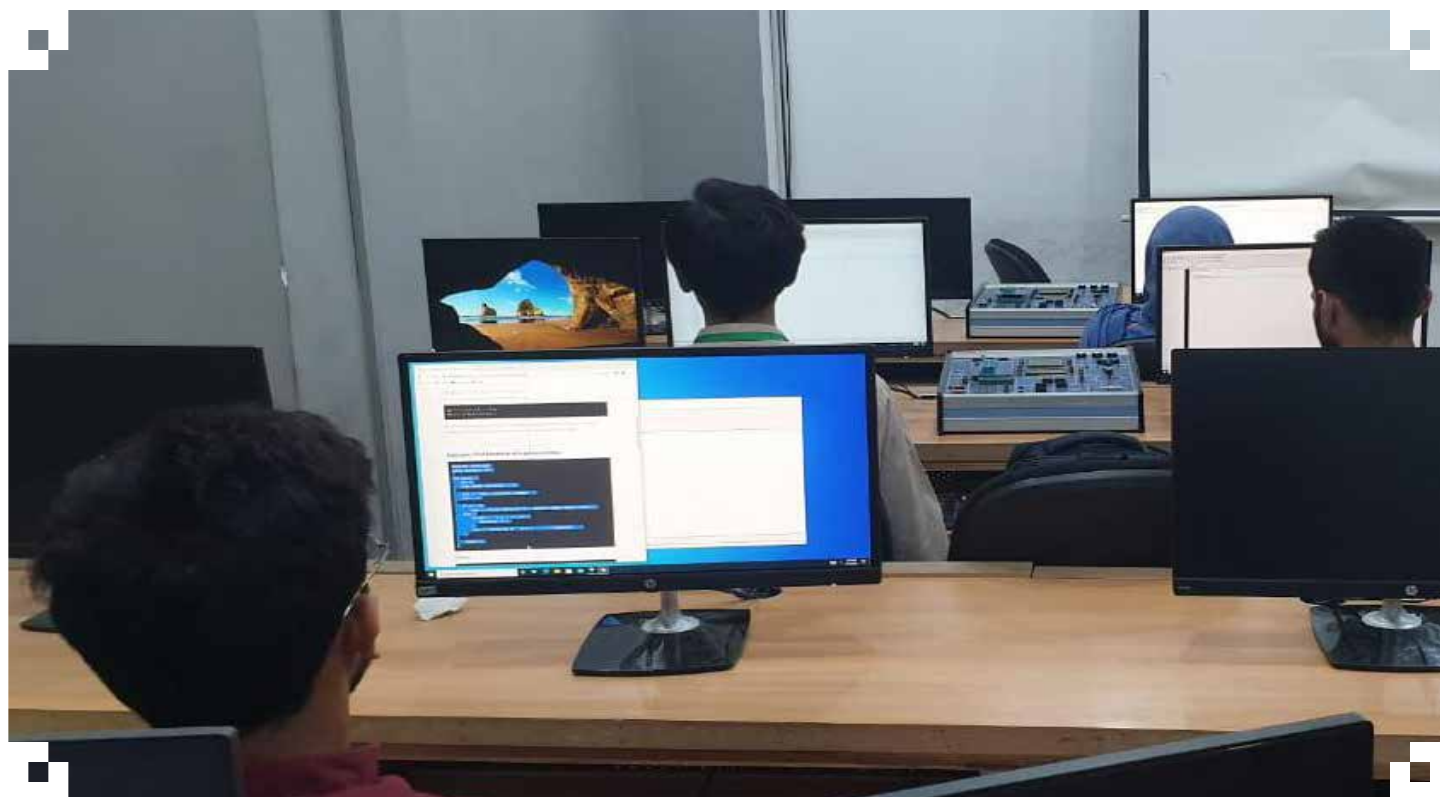
- Robotic Vision
- Image and Video Coding

Communication and Networks:

- Parallel and Distributed Systems
- High Performance Networks
- Random Signal and Noise
- Advanced Cryptography & Network Security
- Mobile and Wireless Networks
- Optical Communication and Networks
- Advanced Digital Communication
- Advanced Mobile & Wireless Communication
- Internet of Things
- Wireless Sensor Networks

Digital Design and Embedded Systems:

- VLSI Principles and Applications
- ASIC and FPGA Based Design
- Advanced Microprocessor Designs
- System on Chip Design
- Design of Real Time Embedded Systems
- Digital Design Testing & Verification
- Parallel and Distributed Systems
- Fault Tolerant Computing
- Real Time Computer Systems
- GPU Architecture and Programming





HoD's MESSAGE

It is an immense pleasure to welcome you all to the Department of Technology at The University of Lahore. Department of Technology is flourishing rapidly during the last few years due to success of its graduates in proving themselves as highly skilled professional engineering technologists. Our highly qualified faculty and advanced curriculum help to cater the diverse needs of students with respect to industry and society while maintaining academic standards. They equip our students with required skills and knowledge which allow them to work as professional engineering technologists in various industries such as power, process control, machine learning, internet of things, automobile, irrigation, structures etc. We always strive to make Department of Technology better with changing needs of research and teaching. I invite you to view our website and discover yourself the opportunities that we offer to our graduates.

Dr. Asim Anwar

PhD

Auckland University of Technology, New Zealand

MISSION STATEMENT

The Department of Technology aims to train students through quality technology education that targets to link theory and practice which develop professional competency in graduates for solving broadly defined technological problems and serve the national and international communities by providing skilled technologists to contribute towards socio-economic development.

INTRODUCTION

Technology programs are meant to address dearth of highly skilled technical manpower for catering local and global industrial, societal, current and future manpower requirements. The aforementioned goals are being achieved by adopting Outcome Based Education (OBE) system and faculty well versed with state-of-the-art technologies by offering graduate and post-graduate engineering technology programs. It is linked with offering research and development activities in technology programs to cater the societal needs today and tomorrow via skill enhancement and imparting new skills in order to stay updated in the emerging fields of technologies.



SCAN THIS TO SEE
FACULTY LIST



Bachelor of Science in Information Engineering Technology



Program Duration: 4 Years

Timing: Morning (Monday - Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, F.Sc. (Math), ICS (Math), F.A with Math or DAE in relevant field or Equivalent with minimum 50% Marks.
- UOL Entry Test is mandatory.

INTRODUCTION

Information Engineering Technology program has been designed to provide solid foundation in a range of IT applications for many industry sectors. The four-year program provides students with both theoretical and practical experience. In the first two years, students gain experience with Multiple programming languages, operating systems and Networking. In the third year, students continue with database

management systems, wireless communication networks and advanced IT applications. During final year industrial training provides exposure to engineering processes at a practical level; helps developing professional skills required by undergraduate technologists.

CAREER PROSPECTS

Information Engineering Technology is suited for those wishing to pursue a career in Software houses, Data Centers, IT Sectors and Networking (installation and troubleshooting), Telecommunication industry, Electronic Media and Radio. The Information Engineering Technologists are in great demand with employers globally.

ELECTIVES

- Machine Learning
- Design and Analysis of Algorithms
- Cybersecurity
- E-Commerce
- Artificial Neural Networks
- Signal & Systems
- Data Mining
- Internet of Things
- Distributed Databases
- Wireless Networks

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 137	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Introduction to ICT	4	Programming Fundamentals	3	Object Oriented Programming	4	Operating Systems	3
English Composition & Comprehension	2	Digital Electronics	4	Data Structures & Algorithms	3	Embedded Systems	3
Applied Mathematics I	3	Basic Electronics	3	Data Communication and Computer Networks	4	Software Engineering	3
Linear Circuit Analysis	4	Communication & Presentation Skills	2	Fundamentals of Economics and Management	2	Numerical Analysis	3
Islamic Studies	2	Discrete Structures	3	Probability and Statistics	3	IT Project Management	3
Pakistan Studies	2	Applied Mathematics II	3			Mobile Applications Development	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Database Management System	4	Entrepreneurship	2	16 Weeks Supervised Industrial / Field Training (8x5=40 Hrs./ Week)	16	16 Weeks Supervised Industrial / Field Training (8x5=40 Hrs./ Week)	16
Artificial Intelligence and Optimization	3	System and Network Administration	4				
Elective I	3	Elective III	3				
Technical & Business Writing	2	Elective IV	3				
Web Programming	3	Design Project	6				
Elective II	3	Project Continued (Summer Semester)					



Bachelor of Science in Mechanical Engineering Technology



Program Duration: 4 Years

Timing: Morning (Monday - Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission, National Technology Council

Entry Requirements

- 12 Years of Education, F.Sc. (Pre-Engineering), ICS (Math, physics)
- D. A. E. (Mechanical, Auto & Diesel, HVAC), A-Level or Equivalent with minimum 50 % Marks.
- UOL Entry Test is mandatory.

INTRODUCTION

The development of a country is measured by the efficient use of energy, materials and developed human capital. Human capital trained in contemporary technologies plays a key role for the progress of a country. Appreciating this importance, Department of Technology

offers an undergraduate program in Mechanical Engineering Technology that contained subjects covering all major fields of Mechanical Industry. The program also offers supervised Industrial trainings to each and every student in the final Year of the program. We provide our students a technical and managerial skills coupled with tips for maximum effectiveness in productivity.

CAREER PROSPECTS

Mechanical Engineering Technologist can pursue career in industries like Automotive, Power Generation, Manufacturing, Maintenance, Planning & Estimation, Aeronautical, Automation & Robotics, Design and Fabrication, HVAC, piping, Oil & Gas, Quality Control & Assurance, Health and Safety, Supply Chain & Warehousing, Technical Sales & Consultancy and Mass Transit Projects.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Islamic Studies/ Professional Ethics	2	Applied Mathematic - II	3	Communication Skills	3	Machine Design	3
Applied Physics	3	Pakistan Studies	2	CAD - II	3	Fluid Mechanics	4
Applied Mathematics-I	3	Technical Drawing and CAD-1	4	Industrial Materials	3	Engineering Statics	3
Applied Chemistry	3	Applied Thermodynamics- 1	4	Mechanics of Material	3	Probability and Statistics	3
Introduction to Computer Fundamentals	3	Basic Electrical & Electronics	4	Applied Thermodynamics - II	3	Total Quality Management	2
Workshop Technology	3					Technical Report Writing	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Heat Transfer	3	Instrumentation and Control	3	Supervised Industrial / Field Training	16	Supervised Industrial / Field Training	16
I C Engine	4	Mechanical Vibration	3				
Dynamics	3	Refrigeration & Air Conditioning	3				
Manufacturing Processes	3	Material Handling and Safety	4				
Project Management	3	Project	3				
Economics	2	Project Continued (Summer Semester)	3				

Bachelor of Science in Civil Engineering Technology



Program Duration: 4 Years

Timing: Morning (Monday - Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission,
National Technology Council

Entry Requirements

- 12 Years of Education, F.Sc. (Pre-Engineering), ICS (Math, physics)
- D. A. E. (Civil/Architecture/Mining), A-Level or Equivalent with minimum 50 % Marks.
- UOL Entry Test is mandatory.

INTRODUCTION

The main emphasis of Civil Engineering Technology Program is to provide the students with a sound foundation of mathematics and other sciences to utilize their knowledge in solving problems of structure, irrigation and hydraulics, soil mechanics, foundations,

highways transportation and environmental engineering. It enables the students to know about the operation and maintenance of projects and gives them on-job training to work independently as well as team player on projects like infrastructure development and repair works of civil engineering technology. Our students are also trained to use the modern engineering software for construction industry.

CAREER PROSPECTS

Civil Engineering Technology influences every aspect of our physical environment and infrastructure. Civil Engineering Technologists plan, construct and maintain infrastructures in our communities such as high rise buildings, bridges, highways, airports, railways, tunnels and mass transit projects. It is among the most established and opportunity generating technology disciplines.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 137	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Islamic Studies/ Professional Ethics	2	Concrete Technology	4	Introduction to Architecture and Town Planning	2	Transportation Engineering	4
Applied Mathematics-I	3	Communication Skills	3	Pakistan Studies	2	Water Supply & Waste Water Management	4
Introduction to Computer Fundamentals	3	Applied Mechanics	4	Quantity Surveying and Contract Documents	3	Environmental Management	3
Civil Engineering Drawing	3	Materials and Methods of Construction	4	Soil Mechanics	3	Theory of Structures	3
Surveying	4	Applied Mathematics - II	3	Fluid Mechanics	3	Technical Report Writing	3
Occupational Health & Safety Management	2			Mechanics of Solids	4		
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Hydrology	3	Pre-stressed & Precast Concrete	3	Supervised Industrial / Field Training	16	Supervised Industrial / Field Training	16
Reinforced Concrete Structures	3	Geology and Earthquake Engineering	3				
Construction and Hydraulic Machinery	3	Irrigation and Hydraulic Structures	3				
Computer Aided Building Modeling and Design	3	Steel Structures	3				
Foundations Engineering	3	Project	3				
Project Management	3	Project Continued (Summer Semester)	3				



Bachelor of Science in Electrical Engineering Technology



Program Duration: 4 Years

Timing: Morning (Monday - Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission, National Technology Council

Entry Requirements

- 12 Years of Education. F.Sc. (Pre-Engineering), ICS (Math, physics)
- D. A. E. (Electronics, Electrical, Instrumentation, Computer Technology, Telecommunication), A-Level or Equivalent with minimum 50 % Marks.
- UOL Entry Test is mandatory.

INTRODUCTION

Electrical Engineering Technology program has been designed to provide a solid foundation in a range of electrical applications for many industry sectors. The four-years program provides students with both theoretical and practical experience. In the first two years, students

gain experience with electric motors, controls, microcontrollers, generators, transformers and their industrial applications. In the third year, students continue with PLC applications as applied to a variety of industrial processes including machine control and many power electronics applications. During final year, industrial training provides exposure to engineering processes at a practical level and helps the student to develop professional skills required by a technologist.

CAREER PROSPECTS

Electrical Engineering Technology is suited for those who wish to pursue a career in Electrical Power (generation, transmission and distribution), Power Systems, Electrical Machinery (installation and design), Telecommunication industry, Electronic Media and Radio. The Electrical Engineering Technologists are in great demand with employers globally.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 138	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Islamic Studies / Professional Ethics	2	Communication Skills	3	Technical Report Writing	3	AC Circuits Analysis	4
Applied Mathematics-I	3	Applied Mathematics-II	3	Electrical Machines-II	4	Electrical Power Transmission	3
Introduction to Computer Fundamentals	3	Pakistan Studies	2	Power Generation Systems	2	Electrical Power Distribution and Utilization	3
Applied Physics	3	Electrical Machines-I	3	Electrical Instruments and Measurements	3	Power Electronics	4
Linear Circuit Analysis	3	Electronics	4	Digital Electronics	4	Electro-Magnetic Fields	2
Engineering Drawing	3	Basic Mechanical Technology	3	Computer Programming	2		
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Total Quality Management	2	Project Management	3	Supervised Industrial / Field Training I	16	Supervised Industrial / Field Training II	16
High Voltage Technology	3	Project	6				
Switchgear And Protective Devices	3	Power System Analysis	2				
Communications Technology	4	Data And Computer Communication	4				
Control Technology	3	Industrial Drives & PLC	4				
Micro-Controller Theory And interfacing	3						

DEAN's MESSAGE

Welcome to the Faculty of Information Technology at the University of Lahore, Pakistan. We are committed to excellence through innovation and teaching. Selecting an Information Technology degree with the University of Lahore offers you the chance to tailor your knowledge to fit a career about which you feel enthusiastic. Our certified way to deal with education implies you'll gain practical experience before you graduate, empowering you to get the right skills you require to surpass industry expectations. Our faculty are highly qualified, experienced, and dedicated. We have state-of-the-art computer laboratories and purpose build infrastructure that provides an amazing learning environment for students to nourish. Our strong academia-industry linkages and cutting-edge specializations in Computer Sciences and Software Engineering will furnish you with a scope of advanced aptitudes and experience essential to flourish in both, i.e., academia, and industry.

Prof. Dr. Ibrar Hussain



DEPARTMENTS

- Software Engineering
- Computer Science and Information Technology

Department of Software Engineering



HoD's MESSAGE

It is a pleasure to head the Department of Software Engineering at the University of Lahore. We realize the rapid changes in software engineering, which can be either the context, requirement, technology, or development. However, we believe that if a student is clear and thorough about the fundamentals can adapt to the quick changes. We desire the education imparted to our students to be the basis of their lifetime learning. Learning is a continuous process and does not end with the acquisition of a degree. Steady and rapid advances in computing technologies shorten the life of software tools and techniques used today. Consequently, we do not aim to make our students walk manuals of any language. Instead, they are given a strong foundation in software problem-solving techniques and are made adaptable to changes. I attribute this success to the winning combination of a dedicated faculty that works hard at imparting quality education. It focuses on the latest curriculum based on transferring Knowledge, Skill acquisition, and development of the right Aptitude of students. Hence, our graduates have excelled in the highly competitive industrial environment. I welcome you to make the best educational choice. That will help you grow as a successful human being.

Prof. Dr. Ibrar Hussain
PhD from Zhejiang University, P.R. China

MISSION STATEMENT

The mission of the Software Engineering Department is to educate individuals who can describe, design, develop and deliver high quality software systems. We prepare our graduates for successful careers in software engineering with a comprehensive understanding and practical learning opportunities to apply that knowledge to solve real-world problems.

INTRODUCTION

The Department of Software Engineering at The University of Lahore was established with a vision to provide eminence education in the field of Software Engineering. We offer a broad curriculum that prepares our students to develop their skills necessary to meet the challenges of today's world and play their vital role in building up the nation. Department has professionally qualified and vibrant faculty dedicated for the betterment of the students. We ensure that program objectives are constantly met and learning outcomes are monitored through periodical tests and assignments. We strive for excellence in the development of software that exhibits the characteristics of quality, reliability and cost-effectiveness that is expected from any well-engineered product.



SCAN THIS TO SEE
FACULTY LIST



Bachelor of Science in Software Engineering



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore

Higher Education Commission,
National Computing Education & Accreditation Council (NCEAC)

Entry Requirements

- 12 Years of Education, Intermediate (HSSC) examination, FSc (Pre-Engineering)/ ICS/ I.Com, A-Level, DAE (Computer) with Mathematics and minimum 50% marks or equivalent qualification with Mathematics certified by IBCC.
- Candidates having FSc (Pre-Medical) with minimum 50% marks are also eligible for admission but according to National Computing Education Accreditation Council (NCEAC) of HEC such students must pass deficiency courses of Mathematics of 6 credit hours within one year.
- UOL Entry Test is mandatory.

INTRODUCTION

Software plays a central and underpinning role in almost all aspects of daily life: communications, government, manufacturing, banking and finance, education, transportation, entertainment, medicine, agriculture, and law. The number, size, and application domains of computer programs have grown dramatically; as a result, huge sums are being spent on software development. Most people's lives and livelihoods depend on this development's effectiveness. Software products help us to be more efficient and productive. They provide information, make us more effective problem solvers, and provide us with safer, more flexible, and less confining work, entertainment, and recreation environments. Software Engineering is the application of a systematic, disciplined and quantifiable approach to the design, development, operation, and maintenance of software systems. It is in fact the practice of designing and implementing large, reliable, efficient and economical software by applying the principles and practices of engineering. The department aims to train students in all aspects of software life cycle from specification through analysis and design to testing, maintenance and evolution of software product.

CAREER PROSPECTS

This program is designed to prepare our students for a career as Software Engineers; System Analysts, Requirements Engineers, Software Architects, Quality Analysts, and Project Managers. Software Engineers will help to develop software for telecommunications, financial systems, aeronautics, medical devices, transportation systems, banking and various government organizations.

ELECTIVES

- Software Metrics
- Software Engineering Economics
- Design Patterns
- Software Testing & Implementation
- Formal Methods
- Distributed Computing
- Real-Time Systems
- Data Warehousing and Data Mining
- Artificial Intelligence
- Data Security and Encryption
- Analysis of Algorithms
- Computer Graphics
- Advance Database Management Systems
- Web-Engineering
- Software Engineering Economics
- Mathematical tools for Software Engineering
- Operation Research
- Simulation and Modeling
- Natural Language Processing
- Computer Organization and Assembly Language
- Theory of Automata & Formal Languages
- Design and Analysis of Algorithms
- Artificial Intelligence
- Computer Architecture
- Compiler Construction
- Advance Software Engineering
- Java Software Development Paradigm
- Distributed Database Systems
- Database Operations & Maintenance
- Database Application Design
- Data & Network Security
- Wireless Networks
- Digital Image Processing
- Expert Systems
- Intelligent Systems
- Mobile Application Development
- Financial Accounting
- Human Resource Management
- Principle of Marketing
- Economics
- Psychology
- International Relations
- Foreign/Regional Language (French, German, Sindhi, Punjabi, Urdu etc.)
- Principle of Management
- Organization Behavior and Culture
- Geographical Information Systems
- Introduction to Graph Theory
- Business Intelligence
- Enterprise Resource Planning
- Entrepreneurship
- Agent Based Software Engineering
- Big Data Analytics
- Cloud Computing
- E-Commerce
- Global Software Development



ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 130	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Introduction to Info. & Comm. Technologies	3	Discrete Structure	3	SE Supporting Elective – I	3	Data Structures and Algorithms	4
University Elective-I	3	Communication and Presentation Skills	3	Object Oriented Programming	4	Computer Networks	4
Calculus & Analytical Geometry	3	University Elective-II	3	Linear Algebra	3	SE Supporting Elective – II	3
English Composition & Comprehension	3	Probability & Statistics	3	Technical & Business Writing	3	Professional Practices	3
Islamic Studies	2	Pakistan Studies	2	University Elective-III	3	Software Requirement Engineering	3
Applied Physics	3	Programming Fundamentals	4	Software Engineering	3		
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Database Systems	4	Operating Systems	4	Final Year Project-I	3	Final Year Project-II	3
Human Computer Interaction	3	Software Construction and Development	3	Software Project Management	3	SE Elective – IV	3
SE Elective - I	3	Web Engineering	3	Software Quality Engineering	3	SE Elective – V	3
Software Design and Architecture	3	Information Security	3	SE Elective - III	3	Software Re-Engineering	3
SE Supporting Elective – III	3	SE Elective – II	3				
		University Elective-IV	3				

Note: Candidate for the BSSE degree is required to successfully earn minimum 130 Cr. Hrs. with the minimum CGPA of 2.0/4.0





Master of Science in Software Engineering

Program Duration: 2 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, BSCS / BSSE / BSIT (4) Years degree program (minimum 130 credit hours) from HEC recognized University/Institute.
- MCS/M.Sc-IT, M.Sc-Computer Science or equivalent examination in a relevant field from HEC recognized University/Institute.
- 16 Years engineering graduates in a relevant field (min 130 credit hours) from HEC recognized University/Institute.
- Minimum of 2.50/4.00 CGPA for semester system. In case of percentage/annual system, minimum 60% aggregate.

INTRODUCTION

This program is designed to provide both fundamental and practical knowledge for students who want to pursue careers in industry as software engineers and to advance their knowledge as researchers. Graduates will learn issues and methodologies to help them specify, develop, test, maintain and manage complex software systems. This program aims to broaden student knowledge in relevant fields. Specifically, the program incorporates software engineering concepts in the context of system requirements and engineering that considers integrated aspects of physical artifacts, software, human factors, economic, and application domains. The program is designed in a way that the students on the basis of their learning and research are capable of applying their skills to particular specialization areas such as software engineering, software maintenance, software quality assurance, software process and information processing.

Note: Candidate for the MSSE degree is required to successfully earn minimum 30 Cr. Hrs. with the minimum CGPA of 2.5 /4.0

CAREER PROSPECTS

Upon completion of software engineering master's degree, the successful graduates have the option to join the academia as well as to serve the industry. In academia, they can transfer their knowledge to young students, conduct independent research and continue their studies towards a doctoral degree. The graduates are typically qualified to work in a career related to networking, technology and software development. They can assist companies with constructing, maintaining and repairing software systems as software engineers, quality assurance administrators, software project managers, software application engineers and director of computer support.

CORE COURSES

- Advance Requirements Engineering
- Advance Software System Architecture
- Software Testing and Quality Assurance

DOMAIN ELECTIVES

Any 2 of the listed courses for thesis option OR any 2-4 courses for Non-thesis option.

- Component Based Software Engineering
- Advanced Formal Methods
- Advanced Human-Computer Interaction
- Agile Software Development Methods
- Empirical Software Engineering
- Advanced Software Project Management
- Advanced Software Engineering
- Software Measurement and Metrics
- Special Topics in Machine Learning
- Next Generation Internet
- Internet Architecture and Protocol

GENERAL ELECTIVES

Any 3 of the listed courses for thesis option OR any 3-5 courses for Non-thesis option.

- Software Risk Management
- Research Methodology
- Software Configuration Management
- Reliability Engineering
- Complex Networks
- Agent Based Modeling
- Software Evolution and Maintenance
- Special Topics in Data Science
- Advanced Natural Language Processing
- IoT for Software Engineers

ROAD MAP				TOTAL SEMESTERS 04		TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Advanced Requirements Engineering	3	Software Testing and Quality Assurance	3	Elective IV	3	Elective VI	3
Advanced Software System Architecture	3	Elective II	3	Thesis-I / (Elective V)	3	Thesis-II (Elective VII)	3
Elective I	3	Elective III	3				



Doctor of Philosophy in Software Engineering



Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BS/MS/MPhil or Equivalent degree from HEC/PEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- A minimum of 60% percentile score is required in case of the Graduate Record Examination (GRE) test administered by the Education Testing Service or a Graduate Admission Test (GAT) administered by the Education Testing Council or 70% score in an equivalent Admission Test developed and administered by The University of Lahore.

INTRODUCTION

The PhD in Software Engineering enables the students to carryout extensive research in their relevant areas. They will be taught advanced graduate courses to cover all aspects of related fields. It will help them to learn the contemporary research theories and trends along with the tools and technologies to conduct research at the advanced level. The proposed PhD program based on teaching and research will enable the students to develop their R & D solutions for the current problems in their relevant research areas. The key focus of this program will be to train the students to conduct research in the demanding domains of software engineering and its applied areas. Before conducting the research, students should strengthen their background knowledge and get familiar with the latest research being conducted in different sub-domains of computer science and especially in their area of interest.

CAREER PROSPECTS

The graduates of PhD in Software Engineering program can be employed by organizations developing advanced technical products or services. The program is very beneficial to academically oriented students who want to conduct a collaborative research and development activities. The success of the proposed PhD in Software Engineering program will be dependent on two factors: the number of successful research grants and, the number of publications in the highly ranked journals and peer-reviewed international conferences. The graduates will learn the research ethics and professionalism in conducting research. They will learn how to dig research problems, how to write a project proposal, how to perform a

systematic literature review and most importantly how to sharpen their problem-solving abilities to solve the important and challenging problems of R & D nature.

ELECTIVES

- Software Risk Management
- Software Measurement and Metrics
- Software Configuration Management
- Reliability Engineering
- Component Based Software Engineering
- Design Patterns
- Complex Networks
- Agent Based Modeling
- Advanced Formal Methods
- Software Engineering Ontologies
- Semantic based Software Engineering
- Model Driven Software Development
- Software Process Engineering
- Advanced Web Services
- Advanced Human Computer Interaction
- Simulation and Modeling
- Advanced Software Engineering
- Software Evolution and Maintenance
- Agile Software Development Methods
- Empirical Software Engineering
- Advanced Software Project Management
- Special Topics in Machine Learning
- Next Generation Internet
- Internet Architecture and Protocol
- Advanced Requirements Engineering
- Software Testing and Quality Assurance
- Advanced Networks
- Advanced Wireless Networks
- Advanced Topics in Networks
- Data Mining
- Optical Computations
- Advanced Algorithm Analysis
- Advanced Theory of Computation
- Advanced Artificial Intelligence
- Advanced Operating Systems
- Agent Based Modeling
- Special Topics in Data Science
- Advanced Natural Language Processing
- IoT for Software Engineers
- Advanced Software System Architecture
- Research Methodology

ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Elective-I	3	Elective-V	3	Elective-IX	3	Elective-XIII	3	Thesis	30
Elective-II	3	Elective-VI	3	Elective-X	3	Elective-XIV	3		
Elective-III	3	Elective-VII	3	Elective-XI	3	Elective-XV	3		
Elective-IV	3	Elective-VIII	3	Elective-XII	3	Elective-XVI	3		



Department of Computer Science & Information Technology



HoD's MESSAGE

Welcome to the Department of Computer Science at the University of Lahore, Pakistan. The Department of Computer Science offers a vibrant environment to aspiring software engineers, developers, researchers and academicians. We strive to add value to our intake and enhance the students' skill sets in order to align them with the requirements of the industry. Moreover, we make efforts to inculcate personality traits in our students that would help them take life from the horns and succeed with grace, dignity and integrity. Our state-of-the-art computer laboratories and infrastructure gives the students a premium learning experience. With a special emphasis on Academia-Industry linkages we at the computer science department ensure that you get the best opportunity to work with the top companies locally and globally! Come, step into the future with us!

Dr. Adnan Khalid

MISSION STATEMENT

Our mission is to provide quality education to undergraduate and graduate students in accordance with the principles of the University mission. We strive for excellence in creating, applying, and imparting knowledge in Computer Science and Information Technology through comprehensive educational programs and research based teaching. We expect our graduates to provide their services to professional societies and the community, and become an active part of IT industry in our nation.

INTRODUCTION

Our department is committed to offer high-tech courses with research based teaching. We believe that our well-structured and carefully planned courses enable students to improve their skills and place them at competitive positions in market. Moreover, we ensure that our students acquire deep knowledge with analysis capability that gives them the leadership skills to take-on the technical challenges at national and international level. Our curriculum focuses on computational thinking, skill development according to industry requirements, programming knowledge and problem solving techniques. We make sure that our students have acquired the necessary skills and knowledge to produce computer-based optimal solutions for the problems from certain areas such as artificial intelligence, e-governance, software engineering, telecommunication and networking etc.



Bachelor of Science in Computer Science



Program Duration: 4 Year

Timing: Morning (Monday - Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission,
National Computing Education & Accreditation Council (NCEAC)

Entry Requirements

- 12 Years of Education, Intermediate (HSSC) examination, FSc (Pre-Engineering)/ ICS/ I.Com, A-Level, DAE(computer) with Mathematics and minimum 50% marks or equivalent qualification with Mathematics certified by IBCC.
- Candidates having FSc (Pre-Medical) with minimum 50% marks are also eligible for admission but according to National Computing Education Accreditation Council (NCEAC) of HEC such students must pass deficiency courses of Mathematics of 6 credit hours within one year.
- UOL Entry Test is mandatory.

INTRODUCTION

The Bachelor of Science in Computer Science is a professional degree program aimed at producing graduates for the job market as software engineers, entrepreneurs, IT consultants, and academia professionals. This program is tailored to introduce, develop and ingrain the understanding of computing discipline in students. We offer market-oriented courses as indicated in the degree roadmap. To achieve the objective of producing highly talented computer professionals, our program inculcates necessary problem-solving abilities in the students. It enables students to analyze the real life problems, transform them into suitable abstract models, design optimal solutions and successfully implement them using latest tools and technologies.

SCOPE/ CAREER PROSPECTS:

This program is designed to prepare students for careers as Software Engineers, Database Designers and Administrators, Network Administrators, Web Engineers, Software Quality Assurance Professionals, and Computer Professionals in various government or private organizations. Students are also well equipped with the knowledge and skills to become entrepreneurs.

SIGNIFICANCE:

The department has state-of-the-art Computer Labs, one dedicated Library with more than nine thousands books, eleven Journals and nine Technical Magazines. Moreover, the department of Computer Science and IT has highly qualified and experienced faculty members including 10 PhDs from various Computer Science domains to provide quality education in congenial environment.

UNIVERSITY ELECTIVE COURSES

- Financial Accounting
- Financial Management
- Human Resource Management
- Principle of Marketing
- Economics
- Psychology
- International Relations
- Foreign Language (French, German, Chinese, Arabic etc.)
- Philosophy
- Principle of Management
- Organization Behavior and Culture
- Business Intelligence
- Enterprise Resource Planning
- Entrepreneurship
- Personal Growth & Development
- Social Service

CS ELECTIVE COURSES

- Advanced Software Engineering
- Principles of Programming Languages
- Web Engineering
- System Programing
- Languages and Translators
- System Software
- Java Software Paradigm
- Software Project Management
- Software testing and implementation
- Data Warehousing
- Distributed Database systems
- Data operation and maintenance
- Data Mining
- Information Management
- Data Application Design
- Introduction to machine learning
- Introduction to Semantic Technology
- Distributed computing
- Data & Network Security
- Wireless Network
- Internet Architecture and protocols
- Digital Image Processing
- Digital Signal Processing
- Computer vision
- Numerical and Symbolic Computing
- Simulation & Modeling
- Expert systems
- Artificial Neural Networks
- Fuzzy Logic
- Intelligent systems
- Computer Graphics
- Graphics and Visualization
- Multimedia
- Interactive Multimedia
- Technical Game Design
- Game Algorithm
- Mobile Application Development



CS SUPPORTING COURSES

- Multivariate Calculus
- Differential Equations
- Numerical Computing

Note: Each candidate for the BSCS degree program is required to successfully earn 130 Cr. Hrs. with the minimum CGPA of 2.0 /4.0

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 130	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Introduction to ICT	3	Digital Logic Design	4	Computer Organization and Assembly Language	4	Software Engineering	3
Islamic Studies / Ethics	2	Programming Fundamentals	4	Object Oriented Programming	4	Theory of Automata	3
Calculus and Analytical Geometry	3	Communication and Presentation Skills	3	Professional Practices	3	Linear Algebra	3
English Composition and Comprehension	3	Probability & Statistics	3	Discrete Structures	3	Data Structures and Algorithms	4
Applied Physics	3	University Elective - I	3	Computer Science Supporting - I	3	University Elective - II	3
Pakistan Studies	2						
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Compiler Construction	3	Operating Systems	4	Artificial Intelligence	4	University Elective - IV	3
Database Systems	4	Computer Networks	4	CS Elective - III	3	CS Elective - IV	3
Computer Science Supporting - II	3	CS Elective - I	3	Final Year Project - I	3	Final Year Project - II	3
Design and Analysis of Algorithm	3	CS Elective - II	3	University Elective - III	3	Information Security	3
Computer Science Supporting - III	3	Technical and Business Writing	3	Parallel and Distributed Computing	3	CS Elective - V	3



Master of Science in Computer Science



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, BSCS 4 Years degree program (minimum 130 cr.) from HEC recognized University/Institute.
- MCS/M.Sc-IT, M.Sc or equivalent degree in a relevant field from HEC recognized University. 16 Years engg. graduates in relevant field (min 130 cr.) from HEC recognized University.
- The following core courses are required to be completed before entering the MS (CS) program. 1. Analysis of Algorithms. 2. Assembly Lang. / Computer Architecture. 3. Computer Networks. 4. Computer Programming. 5. Data Structures 6. Database Systems. 7. Operating Systems. 8. Software Engineering. 9. Theory of Automata.
- Minimum 2.50/4.00 CGPA in semester system or 60% marks in annual system.

INTRODUCTION

This program aims at preparing well-rounded scientific/educational manpower with depth of knowledge and research competence in the domain of computer science. The course work is a right mix of theoretical and practical work which develops the ability to critically analyze a problem in terms of practically solving it. Students can enhance their skills by embracing new computing technologies through self-directed professional development and training along with the ability to effectively disseminate knowledge. The program is designed in a way that the students on the basis of their learning and research are capable of applying their skills to particular specialization areas such as Artificial Intelligence, Software Engineering, Computer Networks, Database Systems, Human Computer Interaction, Web and Information Processing.

Scope/ CAREER PROSPECTS:

The successful graduates have the option to join the academia as well as to serve the industry. In academia, they can transfer their knowledge to young students, conduct independent research and continue their studies towards a PhD degree. They can also become useful resources for industry as software engineers, database designers and administrators, network specialists, and software project managers

CORE COURSES

- Advanced Analysis of Algorithms
- Advanced Operating Systems
- Theory of Programming Languages
- Theory of Automata – II
- Advanced Computer Architecture

ELECTIVES

- Advanced Artificial Intelligence
- Heuristic Search Methods
- Multi Agent Systems
- Search Algorithms for Combinatorial Problems
- Advanced Computer Vision
- Advance Topics in Formal Methods
- Information and Coding Theory
- Formal Verification of Distributed System
- Formal Specification and Design Technique
- Fuzzy Intelligence
- Fuzzy Automata and Languages
- Complexity Theory
- Algorithmic Graph Theory
- Topics in Statistical Natural Language Processing
- Research Topics in NLP
- Advance Topics in Machine Learning
- Information Retrieval and Text Mining
- Big Data Analytics
- Advanced Data Science
- Deep Learning
- Social Web Mining
- Advanced Database Systems
- Data Warehousing
- Advance Topics in Data Mining
- Multimedia Database Systems
- Object Oriented Database
- Web based Databases
- Research Topics in Databases
- Advanced Human Computer Interaction
- Multimedia Information Processing
- Mobile and Pervasive Computing
- Human Factors and Ergonomics
- Advanced Wireless Networks
- Computer Ethics
- Evolutionary Network
- Network Planning and Management
- Network Security
- Network Security and Cryptography
- Advance Computer Networks
- Telecommunication Systems
- Cryptography and Security Mechanisms
- Object Oriented Software Engineering
- Global Software Engineering
- Advanced Requirement Engineering
- Advanced Software Engineering
- Software Architecture and Design
- Software Evolution and Maintenance
- Software Process Engineering and Improvement
- Software Quality Assurance
- Software System Design and Architecture
- Topics in Software Engineering
- Ontology Engineering
- Advanced Information Security
- Systems Modeling & Simulation
- Pattern Recognition
- Computer Vision
- Robotics
- Semantic Technologies
- Internet Technologies and Protocols
- Cloud Computing Security

Note:

- Each candidate for the MSCS degree program will have to complete the degree requirements by following any one of the options given below:
 - (i) 25 Cr. Hrs. course work with 6 Cr. Hrs. Thesis (Total 31 Cr. Hrs.)
 - (ii) 27 Cr. Hrs. course work with 3 Cr. Hrs. Project (Total 30 Cr. Hrs.)
- Each candidate for the MSCS degree is required to successfully earn 31 Cr. Hrs. with thesis or 30 Cr. Hrs. with project with the minimum CGPA 2.5/4.0

ROAD MAP		TOTAL SEMESTERS 04			TOTAL CREDIT HOURS 31		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Core Course-I	3	Core Course-II	3	Core Course-IV	3	Elective - IV / V	3
Elective-I	3	Core Course-III	3	Thesis - I / Elective - IV	3	Thesis - II / MS Project	3
Elective - II	3	Elective - III	3				
		Research Methods	1				



Doctor of Philosophy in Computer Science



Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BS/MS/MPhil or Equivalent degree from HEC/PEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy. A University Committee consisting of at least 3 Ph.D faculty members in the subject area will conduct the Test at par with GRE Subject Test and qualifying score for this will be 70%.

INTRODUCTION

The Doctor of Philosophy (PhD) degree program in Computer Science prepares students for research and teaching careers in academia and for research and technical careers in industry. This program enables students to proficiently use research methods, theoretical and conceptual foundations of computing for solving complex research problems in their area of interest. Students can apply knowledge through the use of current and cutting edge tools, technologies, practices and skills necessary for research.

Scope/ CAREER PROSPECTS:

The successful graduates have the option to join the academia as well as to serve the industry. In academia, they can transfer their knowledge to young students, conduct independent research and supervise master and PhD thesis. They can also have the opportunity to apply for the research grants and collaborate with the international researchers for the research activities

CORE COURSES

- Advanced Analysis of Algorithms
- Advanced Operating Systems
- Theory of Programming Languages
- Theory of Automata – II
- Advanced Computer Architecture

ELECTIVES

- Advanced Artificial Intelligence
- Multi Agent Systems
- Game Theory
- Advanced Computer Vision
- Advanced Topics in Formal Methods
- Information and Coding Theory
- Formal Verification of Distributed System

- Formal Specification and Design Technique
- Fuzzy Intelligence
- Algorithmic Graph Theory
- Fuzzy Automata and Languages
- Complexity Theory
- Topics in Natural Language Processing
- Advanced Topics in Machine Learning
- Information Retrieval and Text Mining
- Big Data Analytics
- Advanced Data Science
- Deep Learning
- Social Web Mining
- Advanced Database Systems
- Data Warehousing
- Advanced Topics in Data Mining
- Multimedia Database Systems
- Research Topics in Databases
- Advanced Human Computer Interaction
- Multimedia Information Processing
- Mobile and Pervasive Computing
- Human Factors and Ergonomics
- Advanced Wireless Networks
- Evolutionary Network
- Network Planning and Management
- Error Control Coding
- Network Security and Cryptography
- Advanced Computer Networks
- Advanced Telecommunication Systems
- Cryptography and Security Mechanisms
- Topics in Software Engineering
- Advanced Requirement Engineering
- Advanced Software Engineering
- Software Architecture and Design
- Software Evolution and Maintenance
- Software Process Engineering and Improvement
- Advanced Software Quality Assurance
- Software System Design and Architecture
- Ontology Engineering
- Advanced Information Security
- Systems Modeling & Simulation
- Pattern Recognition
- Advanced Semantic Technologies
- Advanced Robotics
- Internet Technologies and Protocols
- Cloud Computing Security

Note:

Each candidate for the PhD degree program shall be awarded the degree on successful completion of the following requirements:

(i) 18 Cr. Hrs. Course Work and 30 Cr. Hrs. Research

Work with minimum CGPA 3.00/4.00

(ii) Comprehensive Examination (written and oral)

(iii) Synopsis Defense

(iv) Dissertation Reviews as per HEC policy

(v) Publication as per HEC policy

(vi) Dissertation Final open Defense



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Elective-I	3	Elective-V	3	Elective-IX	3	Elective-XIII	3	Thesis	30
Elective-II	3	Elective-VI	3	Elective-X	3	Elective-XIV	3		
Elective-III	3	Elective-VII	3	Elective-XI	3	Elective-XV	3		
Elective-IV	3	Elective-VIII	3	Elective-XII	3	Elective-XVI	3		



DEAN's MESSAGE

On behalf of all members of our University, I welcome you all. I am delighted to introduce you to the fastest-growing Institution that prepares students who are able to think strategically, adapt to change, and deliver impact. Our emphasis is on providing students with cutting-edge infrastructure, well-equipped libraries, and internationally recognized research exposure enriching their professional skills. Our International diversified faculty publishes in international top-ranked peer review journals and also delivers an excellent student experience to prepare them for the job market. In addition, we embrace the connection between business, technological innovation, and entrepreneurship while maintaining a strong focus on sustainability. Our business school has ranked among the top 3 business schools in the private sector universities in Pakistan. Our degrees are accredited by National Business Education Accreditation Council (NBEAC). I am excited about the opportunities ahead of us and enchanted to work with you who are interested in mounting your knowledge and elevating your careers to explore our school further.

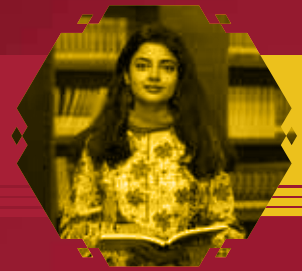
Prof. Dr. Rabeeya Raoof
PhD (Management)
Pro-Rector Admissions & Examination
Dean (Faculty of Management Sciences)



DEPARTMENTS

- Lahore Business School
- Lahore School of Professional Studies
- Lahore School of Aviation
- School of Accountancy & Finance

Lahore Business School



HoD's MESSAGE

Lahore Business School (LBS) is ranked among the top 7 business schools in Pakistan and among the top 3 in private sector universities in Pakistan. Proudly leading around 1700 students in LBS, we are fully committed to produce and nurture the future business leaders who generate value for businesses and contribute towards the national economy. We are equally committed to developing and producing scholars who create, advance and disseminate knowledge which shapes and influences business practices and society at large. At LBS, we promote learning by providing our students an intellectually challenging environment where they feel secure and motivated to share ideas and contribute to mutual learning. We pride ourselves for being an inclusive community welcoming students from all backgrounds, countries and cultures producing business leaders with global perspectives. We offer a wide range of degrees ranging from undergraduate to postgraduate business research as well as executive education. Whether you intend to become an entrepreneur in future, want to pursue your career in business or contribute through innovative research in management studies, we believe that Lahore Business School is an excellent choice for you. I welcome you to LBS.

Dr. Muhammad Osama Nasim Mirza
PhD Management (LUMS)

VISION

LBS aims to be recognized among the top business schools in Pakistan.

MISSION STATEMENT

LBS is committed to produce and nurture future business leaders who generate value for business and contribute towards the national economy. LBS is equally committed to develop and produce scholars who create, advance, disseminate management knowledge, and influence business practices and society at large.

INTRODUCTION

Lahore Business School is recognized among top business schools in Pakistan. This is evident from the subject rankings released by QS and Times Higher Education in 2022. LBS has achieved impressive milestones by producing accomplished professionals who have made a best fit with public and corporate world in a highly proficient manner. We, at LBS, believe in applied learning experience and development of hands-on problem solving skills, which makes our degree programs challenging, interesting, and rewarding. National Business Education Accreditation Council (NBEAC) accredits all degrees at LBS. We have a state-of-the art library with 15,000 books and a sizable quantity of academic journals. In addition, we have access to the best on-line research portals to help our students in their research. LBS has the strength of over 1700 students in undergraduate, graduate and postgraduate business and research programs. We have professional and highly qualified faculty with academic and industrial experience. We are committed to academic excellence in transforming the business education and preparing our students to smartly fit into a variety of emerging leadership roles with a knack to tackle critical issues that intrigue the management arena in the contemporary business world. We invite you to come to LBS and see what we are doing for excellence for our youth. We also welcome you in this journey of learning and joining hands with us to bring prosperity to our nation.



SCAN THIS TO SEE
FACULTY LIST

Bachelor of Business Administration (BBA)



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission,
National Business Education Accreditation Council (NBEAC)

Entry Requirements

- Minimum 2nd division in F.A / F.Sc. / I.Com or equivalent GCE, A Level with at least three subjects, with an average of C grade, from IBCC recognized School / College.

INTRODUCTION

The Bachelor of Business Administration (BBA) program from University of Lahore is a competency-based degree program aimed to produce business graduates who possess knowledge, skills, interpersonal characteristics and attitudes desired in today's changing and competitive business world. The BBA program does not only allow students to gain theoretical and practical based understanding about the key topics in business studies but also enables them to succeed in their social, political and personal endeavors. This degree program familiarizes students with real-life business environment by providing them opportunities to engage in activities such as case studies review, business simulations and entrepreneurship lab enabling them to work effectively as future managers and entrepreneurs.

CAREER PROSPECTS

BBA (4 Years) program provides our graduates a fully rounded exposure to the contemporary business and prepare them for prosperous careers. Understanding and application of analytical, interpersonal, creative and critical skills at workplace allow graduating students to provide innovative solutions to business-related needs and problems. Understanding about the application of business knowledge to real-life business scenarios enhances their employability and career opportunities. Our graduates of BBA (4 Years) program are fully equipped to pursue managerial roles in any public and private organization or to become entrepreneurs, depending on where their passion lies.

GENERAL COURSES

- Social Psychology
- Current Affairs
- International Relations
- Mandarin
- Law, Taxation and Contract Management
- Interview and Presentation Skills
- Business Computing Simulation
- Skill Development Workshop
- Business Ethics
- Media and Communication Studies

AREAS OF SPECIALIZATION

HUMAN RESOURCE MANAGEMENT

- Leadership and Change Management
- Reward and Compensation Management
- Labor Law and Legal Issues in HR
- Training and Employee Development
- Human Resource Information System
- Employee Performance Management
- Conflict & Negotiation Management
- Recruitment and Selection Techniques
- Industrial Relations

MARKETING

- Brand Management
- New Product Development
- Advertising and Promotional Strategy
- Product and Pricing Strategy
- Media Marketing
- Sales Management
- Industrial Marketing
- Service Marketing
- Hospitality and Tourism Marketing
- Personal Branding and Organizational Reputation Management
- Fashion and Future of Brands

FINANCE

- Applied Financial Statement Analysis
- International Finance

ELECTIVES

- Operations Management
- Fundamentals of Supply Chain Management
- Fundamentals of Project Management

- Portfolio Theory & Management
- Corporate Reporting
- Financial Risk Management
- Security Analysis
- Finance for Entrepreneurs
- Financial Markets and Institution
- Business Taxation
- Audit Framework

SUPPLY CHAIN MANAGEMENT

- Procurement Management
- Storage and Warehousing Management
- Material Handling and Inventory Planning
- Transportation Techniques and Management
- Distribution Network Designing
- Globalization and Outsourcing
- Supply Chain Design and Performance
- Retail Supply Chain Management

PROJECT MANAGEMENT

- Project Risk Management
- Project Quality Management
- Project Budgeting and Scheduling (MS Project)
- Agile Project Management
- Project Portfolio Management
- Project Cost Management
- Project Communication and Human Resource Management
- Managing Project Logistics



ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 135	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Business English I	3	Business English II	3	Business Statistics	3	Macro Economics	3
Pakistan Studies	3	Islamic Studies	3	Geography	3	Business Finance	3
Environmental Science	3	Philosophy	3	Business Communication	3	Principles of Marketing	3
Business Mathematics	3	Business Computing	3	Journalism	3	Organizational Behavior	3
Introduction to Psychology	3	Accounting I	3	Accounting II	3	Quantitative Techniques	3
Introduction to Sociology	3	Micro Economics	3	Principles of Management	3	University General I	3
SUMMER SEMESTER		INTERNSHIP IN SUMMER (9 Week Duration)					CR. HR. 0
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Human Resource Management	3	Business Research Methods	3	Business Decision Analysis	3	University General III	3
Financial Management	3	Advanced Financial Management	3	Elective IV	3	Elective V	3
Cost Accounting	3	Consumer Behavior	3	Public Speaking	3	Final Year Project	3
Marketing Management	3	Elective II	3	Specialization I	3	Specialization III	3
University General II	3	Elective III	3	Specialization II	3	Specialization IV	3
Elective I	3	Sports	0	The Entrepreneurship Lab	0	The Entrepreneurship Lab	0
Youth Club	0						

Note: It is mandatory for students to do a 9-Week corporate internship (0 credit hours) after completion of their fourth semester. LBS will recommend and offer each elective/specialization course considering contemporary market needs. However, a separate dedicated elective/specialization course will be offered on written request by 15 (Fifteen) students. The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.



Bachelor of Business Administration (BBA)



Program Duration: 2 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 14 years of education like BA, BSC, B. Com and other equivalent qualification with a minimum of CGPA 2.0 or 2nd division from a chartered/HEC recognized university.

INTRODUCTION

The 2-Year BBA program is specially launched for graduates who have completed 14 years of education in diverse fields (B. Com, BS & BA) and willing to pursue their careers in business and management studies. For introducing a novel and challenging discipline to these multi-disciplinary graduates, this program is based on the essential and fundamental business topics and areas ranging from accounting, marketing, finance, supply chain, human resource and project management. The BBA program does not only allow students to gain theoretical and practical based understanding about the key topics in business studies but also enables them to succeed in their social, political and personal endeavors. The 2-year BBA program from UOL provides a rigorous, meticulous and practical foundation in the business studies opening a new horizon of professional growth and advancement for our graduates.

CAREER PROSPECTS

This program ensures that our graduates have expertise to meet needs of today's working environment. It develops them as analysts, critically reflective thinkers and entrepreneurs enabling them to thrive in the complex, innovative and intensive workplace. Understanding about the application of business knowledge to real-life business scenarios enhances their employability and career opportunities. Our graduates of BBA program are fully equipped to pursue managerial roles in any public and private organization or to become entrepreneurs, depending on where their passion lies.

AREAS OF SPECIALIZATION

HUMAN RESOURCE MANAGEMENT

- Leadership and Change Management
- Reward and Compensation Management
- Labor Law and Legal Issues in HR
- Training and Employee Development

- Human Resource Information System
- Employee Performance Management
- Conflict & Negotiation Management
- Recruitment and Selection Techniques
- Industrial Relations

MARKETING

- Brand Management
- New Product Development
- Advertising and Promotional Strategy
- Product and Pricing Strategy
- Media Marketing
- Sales Management
- Industrial Marketing
- Service Marketing
- Hospitality and Tourism Marketing
- Personal Branding and Organizational Reputation Management
- Fashion and Future of Brands

FINANCE

- Applied Financial Statement Analysis
- International Finance
- Portfolio Theory & Management
- Corporate Reporting
- Financial Risk Management
- Security Analysis
- Finance for Entrepreneurs
- Financial Markets and Institution
- Business Taxation
- Audit Framework

SUPPLY CHAIN MANAGEMENT

- Procurement Management
- Storage and Warehousing Management
- Material Handling and Inventory Planning
- Transportation Techniques and Management
- Distribution Network Designing
- Globalization and Outsourcing
- Supply Chain Design and Performance
- Retail Supply Chain Management

PROJECT MANAGEMENT

- Project Risk Management
- Project Quality Management
- Project Budgeting and Scheduling (MS Project)
- Agile Project Management
- Project Portfolio Management
- Project Cost Management
- Project Communication & Human Resource Management
- Managing Project Logistics



ROAD MAP		TOTAL SEMESTERS 04		TOTAL CREDIT HOURS 78	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	Semester Summer	CR. HR.
Business English I	3	Business English II	3	Islamic Studies	3
Pakistan Studies	3	Business Mathematics and Statistics	3	Business Communication	3
Business Computing	3	Public Speaking	3		
Principles of Marketing	3	Business Finance	3		
Financial Accounting	3	Human Resource Management	3		
Principles of Management	3	Marketing Management	3		
SEMESTER 3			CR. HR.	SEMESTER 4	CR. HR.
Financial Management			3	Quantitative Techniques	3
Business Economics			3	Business Computing Simulation	3
Operations and Supply Chain Management			3	Specialization I	3
Business Research Methods			3	Specialization II	3
Managerial Accounting			3	Specialization III	3
Strategic Management			3	Specialization IV	3

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.



Master of Business Administration (MBA)



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission,
National Business Education Accreditation Council (NBEAC)

Entry Requirements

- 16 years of education like BBA, B. Com, BCS, BE, MBBS, MA, MSc, and other equivalent qualification with a minimum of CGPA 2.50 or 2nd division from a chartered/HEC recognized university

INTRODUCTION

MBA (2-years) program at Lahore Business School (LBS) is a professional competency-based degree program aimed at developing future leaders who are equipped with contemporary business knowledge and skills. This program is designed to provide advanced insights into the fundamental of management studies. It also enables students to develop analytical, critical and entrepreneurial skills drawing from the subjects including business statistics, accounting, marketing and financial data analysis. These competencies empower students to question the existing way of dealing with organizational challenges and provide innovative solutions to them. This program allows them to apply the core management concepts to real-life business case studies for preparing students to possess evidence-based knowledge of management. Our theoretical, conceptual and practical based MBA program allows students to thrive in dynamic and competitive business environment of 21st century.

CAREER PROSPECTS

MBA program at Lahore Business School (LBS) equips students with a rigorous and practical-oriented knowledge of business and management studies aimed to provide graduates the best possible platform for their career development and professional recognition. Strong critical, analytical and business strategic and administrative skills of our graduates in making sound business decisions and evaluating business opportunities, enhance their career opportunities. Expertise gained by doing specialization in a specific management area, industry project and attending entrepreneurial labs, gives our graduates a strong competitive advantage in recruitment process and makes them highly desirable by organizations. Our graduates are adequately trained to work at key managerial positions in business organizations as well as to become future business leaders and entrepreneurs.

AREAS OF SPECIALIZATION

HUMAN RESOURCE MANAGEMENT

- Diversity Management
- Industrial Relations
- Human Resource System Development
- Global Human Resource Management
- Employee Training and Development
- Compensation & Performance Management
- Safety and Health Management at Workplace
- Recruitment and Selection Techniques
- Managing Organizational Change

MARKETING

- Integrated Marketing Communication
- Marketing Planning and Program
- Retail Marketing
- Strategic Brand Management
- Real Estate Marketing
- Personal Branding and Organizational Reputation Management
- Online and Social Media Marketing
- Tourism, Sports and Leisure Marketing
- Sales Management
- Fashion and Future of Brands
- Hospitality and Tourism Marketing
- Global Marketing

FINANCE

- Financial Reporting & Analysis
- International Financial Management
- Investment Analysis & Portfolio Management

ELECTIVES

- Operations and Supply Chain Management
- Project Management Essentials
- Entrepreneurship
- Strategic Management
- Mergers, Acquisitions, and Corporate Restructuring
- Advanced Corporate Finance
- Contemporary Issues in Islamic Finance
- Risk Management & Derivatives
- Advanced Financial Modelling
- Demand Operations and Inventory Planning
- Logistics Management
- Vendor Selection & Development
- Strategic Supply Chain Management
- Supply Chain 4.0
- Supply Chain Analytics (SCA)
- Sustainable Supply Chain Management
- Supply Chain Strategies
- Project Procurement Management
- Project Monitoring and Controlling
- Project Planning for Risk, Uncertainty & Complexity
- Project & Portfolio Management in Organizations
- Project Contract Management
- Project Feasibility & Planning
- Project Total Quality Management
- Leading & Managing Project Teams
- Project Appraisals and Selection
- Spread Sheet Modeling & Advance Decision Analysis
- Project Supply Chain Management
- Advanced Project Management
- Industrial Project Management
- Project Budgeting & Scheduling (Primavera)
- Operations Research
- Business Simulations/Business IT
- Auditing
- Export Marketing

SUPPLY CHAIN MANAGEMENT

PROJECT MANAGEMENT



ROAD MAP		TOTAL SEMESTERS 04			TOTAL CREDIT HOURS 66		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Financial Accounting*	3	Advanced Marketing Management	3	Strategic Financial Management	3	Specialization - I	3
Perspective of Modern Marketing*	3	Advanced Human Resource Management	3	Elective - I	3	Specialization - II	3
Micro and Macro Economics*	3	Advanced Research Methods	3	Elective - II	3	Specialization-III & Specialization-IV OR Industrial Project	6
Applied Statistics for Business*	3	Finance for Managers*	3	Elective - III	3		
Management and Organizational Behaviour*	3	Managerial Accounting*	3	Elective - IV	3		
Business Communication*	3	Business Decision Analysis*	3	Managerial Economics*	3		

Note: Applicants with 16-years of Business Education can avail exemption (without fee) of courses with * if they meet HEC's criteria for course exemption. Exempted course should at least have about 70% of content similarity and should be passed by student with B grade. Exempted courses and their credit hours shall appear on the transcript with a description stating the work as Exempted and the name of the University from where these were originally qualified and earned. Exempted courses will not count in calculations of CGPA.

LBS will recommend and offer each elective/specialization course considering contemporary market needs. However, a separate dedicated elective/specialization course will be offered on written request by 15 (Fifteen) students.

The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.



Master of Sciences Management Sciences (MS MANAGEMENT SCIENCES)



Program Duration: 1.5 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 years of education like BBA, B. Com, and relevant qualification with a minimum of CGPA 2.50 or 2nd division from a chartered/HEC recognized university

INTRODUCTION

The MS Program in Management sciences is designed to prepare students for understanding and resolving real business challenges as well as to generate theoretical body of knowledge about organizational oriented problems. This is a unique degree program as it not only broadens fundamental knowledge of students in key areas of management sciences including HR, Organizational Behavior, Marketing and Finance but also develops their research skills related to analytical tools, critical reasoning and reflective thinking. This degree program equips students to have managerial and research expertise allowing them to become leaders, consultants and researchers, depending on where their passion lies. The flexible schedule of classes on Saturday and Sunday provides a wonderful opportunity to those professionals who have an urge to excel in their careers along with their busy schedules.

CAREER PROSPECTS

The MS program in Management Sciences prepares students to pursue their careers in academia as well as in industry. The program is aligned with Lahore Business School's mission to provide degree programs which are rigorously rich, focused on current challenges of research not only in academics but also focusing on core issues of industry, commerce and public service. Our MS degree program also facilitates students to get admission in PhD program at any reputable national or international universities. Graduates of this program are sought after by organizations looking for specialists in all related field of Management to do an in-depth analysis for solving practical problems.

CORE COURSES

- Seminars in Management
- Seminars in Marketing
- Strategic Finance
- Advanced Research Method

AREAS OF SPECIALIZATION

HUMAN RESOURCE MANAGEMENT

- Staffing & Performance Management
- Human Resources Information Technology
- Strategic Planning & HRM Challenges
- Consulting In HRM
- Human Resource Development
- Organizational Development and Change
- Development Values & Ethics
- Performance & Compensation Management
- Case Studies in HRM
- Conflict & Negotiation Management
- Change Management
- Effective Training Skills
- International HRM Challenges
- Performance Evaluation
- Workforce Diversity Management
- Decision Making Techniques for Managers
- Special Topics in HRM
- Industrial & Organizational Psychology
- Contemporary Issues in OB
- Seminars in International Business Management
- Leadership and Team Building
- Organizational Behavior

MARKETING

- Strategic Marketing
- Strategic Services Marketing

- Advanced Marketing Research
- Integrated Marketing Communications
- New Product Development
- Digital Marketing
- Consumer Psychology and Insights
- Marketing Planning and Analysis
- Contemporary Pricing Strategies
- Distribution Management
- Sales force management
- Strategic Supply Chain Management
- Customer Relationship Management
- Current Issues in Marketing and Supply Chain Management
- Seminar in Entrepreneurship
- Brand Management

FINANCE

- Financial Economics
- Case Studies in Corporate Finance
- Financial Risk Management
- Financial Strategy & Corporate Restructuring
- Valuation and Capital Investment
- Financial Modeling
- Portfolio Management 1
- Portfolio Management 2
- Corporate Governance
- Essentials in Islamic Finance
- Issues in Financial Reporting
- Research Techniques in Finance
- Financial Theory
- Essentials in Islamic Finance

Note: Course offering may vary as per HEC policies

ROAD MAP		TOTAL SEMESTERS 03		TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.
Core I	3	Core III	3	Specialization I	6
Core II	3	Core IV	3	Specialization II OR	
Elective I	3	Elective III	3	Project / Dissertation	
Elective II	3	Elective IV	3		

Master of Philosophy in Management Sciences



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- BBA (Honors)/MBA / 16 years of education in Business Administration/Management Sciences from a chartered university with a minimum of 2nd division or 2.5 CGPA.

INTRODUCTION

The M. Phil program is designed to ensure that students develop strong research and analytical skills that would not only help them carry out future research, but also think and act critically. The first year of the M.Phil. program introduces students to the key concepts in management research, research methods, and business theories. In the second year the focus is on supervised research in your area of interest. The objective is to develop research and analytical skills in students that will help them in conducting independent research in different management related areas for effective decision making.

CAREER PROSPECTS

M. Phil graduates usually pursue academic career and go on for PhD in their area of interest. There are opportunities in the corporate sector for the graduates, and recent industry trends show that organizations are now interested in hiring M. Phil. graduates that have acquired deeper insight into management research, strategies, structures, and processes.

FINANCE ELECTIVES

- Advanced Corporate Finance
- Advanced Topics in Financial Management
- Advanced Topics in International Finance
- Behavioral Finance
- Contemporary Issues in Financial Economics
- Corporate Governance and Financial Decisions
- Dynamic Asset Pricing Theory
- Econometric Methods in Finance
- Empirical Methods in Finance
- Financial Economics
- Financial Theories and Corporate Decisions
- Portfolio Selection Management
- Risk Management Techniques

MARKETING ELECTIVES

- Advanced Topics in e-Marketing
- Advances in Consumer Behavior and Market Strategies
- Advances in Integrated Marketing Communication
- Advances in Retail Marketing
- Advances in Strategic Brand Management
- Contemporary Issues in Marketing
- Customer Relationship Management
- Marketing Planning and Analysis
- Seminar in Strategic Services Marketing

MANAGEMENT ELECTIVES

- Advanced Corporate Social Responsibility
- Advanced Diversity Management
- Advanced Entrepreneurship
- Advanced Human Resource Development
- Advanced Human Resource Management
- Advanced Knowledge Management
- Advanced Organizational Behavior
- Advanced Performance Management
- Advanced Strategic Management
- International Management
- Leadership and Team Building
- Negotiation and Conflict Management
- Organization Development and Change

Note: The list of the courses is not exhaustive and can be changed as per available resources and market requirements.



ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Organization Theory	3	Statistical Inferences & Data Analysis	3	Elective - III	3	Thesis (Cont'd)	0
Advance Research Methodology	3	Elective - I	3	Elective - IV	3		
Research Workshop	3	Elective - II	3	Thesis	6		

Doctor of Philosophy in Management Sciences



Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BS/MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) will be given exemption of 24 credit hours i.e, 2 Semesters as per HEC policy.
- UOL Entry Test is mandatory.

INTRODUCTION

PhD program focuses on generating valuable, actionable, and evidence-based relevant knowledge for organizational leaders to handle the complex business environment in an ever-changing world. The program stresses more on what is not known rather than just teaching what is already known. By developing PhD scholars' research skills and resourcefulness, the program offers an opportunity to make an original, meaningful and valuable contribution to the field of Management. The program emphasizes on both theoretical and applied research in Management. LBS welcomes passionate individuals with a deep interest in academics and research and builds on their capability to handle academic rigor. The scholars will engage in serious research work directly with distinguished faculty members and will be able to contribute to the existing body of knowledge in the field of management sciences. The degree program requires coursework of 24 credit hours, a comprehensive examination, followed by a research proposal, a dissertation of 30 credit hours, and publications in quality journals.

CAREER PROSPECTS

Unlike other scientific fields, our doctoral program aims at students equipped not only for an academic career but also for being a top-level manager in public and private sectors. Qualified PhD management graduates are most likely to thrive in the education sector with more confidence and high career

prospects. With the enhanced research and intellectual capacity to diffuse innovative ideas, formal careers in research organizations/forums such as editors, reviewers, contributors become more probable. PhD graduates are more likely to win funded projects in international and national arenas for informed advocacy to the policy-makers. With ever-increasing awareness in the industry about the importance of evidence-based decision-making and problem-solving, management consultancy is an emerging career. Large organizations can utilize PhD graduates in many departments, mainly in research and development, management development, functional excellence, and strategy-making.

FINANCE ELECTIVES

- Advanced Research Topics in Finance
- Advanced Topics in Finance Theory
- Advanced Topics in Financial Economics
- Advanced Topics in Financial Instruments and Markets
- Capital Markets and Efficiency
- Emerging Issues in Financial Markets
- Financial Modeling and Risk Management
- Seminar in Finance
- Seminar in Financial Management

MARKETING ELECTIVES

- Advanced Advertising Management
- Global Strategic Marketing
- Managing Innovation
- Online and Social Media Marketing
- Relationship Marketing
- Seminar in Brand Management
- Research Seminar in Consumer Behavior
- Research Seminar in Marketing Theory
- Seminar in Managing Marketing Profile

MANAGEMENT ELECTIVES

- Advanced Research Topics in Human Resource Management
- Emerging Issues in Organizational Behavior
- Emerging Issues in Strategy and Innovation
- Selected Issues in Negotiation and Conflict Management
- Seminar in Advanced Research Topics on Knowledge Management
- Seminar in Corporate Social Responsibility, Sustainability and Ethics
- Seminar on Diversity and Inclusion
- Seminar in Entrepreneurship Research
- Seminar in Human Resource Development
- Seminar in International Management
- Seminar in Leadership in Organizations
- Seminar in Organization Development and Change

Note:

1. At the time of admission, LBS will determine the exemption/deficiency and identify the nature and number of courses and research as a function of students' capacity, academic track record, the relevance of the previous education, and research experience.
2. The student should completed course work before the comprehensive examination, whereas the research deficiency's coverage may be under the supervisor's guidance.

ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Research Workshop	3	Statistical Inference and Data Analysis	3	Philosophy of Management	3	Theory Building in Management	3	Thesis	30
Organization Theory	3	Research Proposal Writing	3	Advanced Research Methodology-II	3	Elective – IV	3		
Advance Research Methodology-I	3	Elective – I	3	Contemporary Data Analysis	3	Elective – V	3		
Seminar in Management	3	Elective-II	3	Elective-III	3	Elective – VI	3		

Lahore School of Professional Studies



HoD's MESSAGE

Lahore school of professional studies was established in 2015 with objective of skilling students with best practices in the field of Management and clinical psychology. The school is working hard to make their students an energetic, intelligent, and will civilized citizen and professional for the society. For this school and faculty is trying wholeheartedly to transfer the latest knowledge through interactive, collaborative and cooperative methodology. The main way of management is to promote the wellbeing and stress-free environment for the students. Educational philosophy of LSPS is based on the principle that each child will achieve their personal best in all areas of their development! Education involves the progress of self-motivated, responsible and self-disciplined children. LSPS is governed under the rules and procedure of laid down by The university of Lahore. During the pandemic the school has comply the instructions and follow the norms of social distancing, wearing of masks and stepping out only for emergencies. Online classes were to commence as soon as possible. 'Online Classes', the very term was daunting for LSPS Managements and teaching staff, parents and students. Somerville LSPS got into action, consulted with IT professionals, got their Computer Departments to begin working immediately on the modalities. It was a successful experience. After pandemic the blended learning way is started through which the classes are on physical mode and assessment is online mode which is going very successfully.

Dr. Ali Sajid
PhD, George Washington University

MISSION STATEMENT

"LSPS, UOL is committed to provide the best Management Education, cultivate research culture with strong emphasis on industrial linkages. We aim to produce leaders both for high-tech businesses and entrepreneurial ventures and committed to work for the spread of applied knowledge through innovation means. We strive to create challenging academic environment with a view to stimulate human intellect as well as transform student's personality and make them a decent professional and caring human being with strong ethical norms."

INTRODUCTION

A unique value based motivational learning environment, most conducive to absorb emerging ideas & keen to add life skills in you. World class education in a most flexible, convenient and conducive, yet intellectually stimulating manner with unique educational culture. LSPS takes pride in giving its students the most enriching, inspiring & motivating academic environment, which enables learning simplified, more user friendly through technological interventions to provide world class education. Our graduates are equipped with strong problem solving and decision making tools, well prepared to add value and able to greatly enhance organizational effectiveness and over all competitiveness of nation with due regard to great human values and ethics. While enhancing the capacity of delivery, we firmly believe change in an organization is only possible, when we break the self-imposed limiting belief and add self-inspiration for learning through technology driven innovative means of hybrid learning while greatly enhancing their flexibility through IT enabled environment.



SCAN THIS TO SEE
FACULTY LIST

Master of Science in Project Management



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Formal Education (with minimum second division or Equivalent CGPA) in 16 years of formal education in Business / Management/ Economics/ Engineering/ technical/ IT/ MIS/ or Public administration or Hard Sciences/ Natural Sciences/ Commerce/ Medical Sciences or from an HEC recognize institution with Minimum 2.5/4.0 CGPA in semester system or 50% marks in annual system.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

Master of Science in Project Management at LSPS-UOL is the largest weekend program of Pakistan & is a unique opportunity to combine a broad project-based body of knowledge with finance, economics, management, quality & HRM.etc Through this MS degree, students will be exposed to Project Management key and advance concepts and skills needed for successful implementation in various phases of the projects. Program has been designed to prepare successful project leaders, who

skillfully manage resources, schedules, risks, and scope to complete big projects like CPEC & large Dams etc. Students would be exposed to a practical, hands-on approach through learning of applied tools and techniques, case studies etc. Core objective is to prepare the tomorrow's professionals to successfully complete sophisticated projects within the constraints of resources & to enable them to face emerging challenges.

Through this degree program, all core competencies related to various aspects of project management would be developed in our students & would help them to gain exposure to project planning, control and management. This MS degree program will help graduates to achieve success at the highest levels of management by preparing them to manage complex projects & to build their career in Multi National Organizations.

CAREER PROSPECTS

The degree develops and consolidates the most sought after Project Management expertise including soft and hard skills which may be applied in any industry. The graduates can apply these expertise and skills in whatever field they want to work in management position. Graduates are prepared to serve as project leaders and team members who add value through innovation, customer focus, prudence, and professional responsibility. Graduates of Project Management programs very bright Job future in software houses, government and armed forces projects and can be absorbed in new Mega Dams in Pakistan and China Pakistan Economic Corridor (CPEC) & in Middle Eastern Markets.



ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 30		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	
Managing Complex Project in Technical Concern.	3	Management of Technological Enterprises	3	Elective 1	3	Research Thesis		
Project Feasibility and Planning	3	Project Monitoring & Evaluation	3	Elective 2	3	OR		
						Two courses in lieu of thesis		6
						Elective 3 & 4		
Project Quality Management	3	Project Risk Management	3					

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ELECTIVES

- Computer Applications in Project Management
- Life Skills & People Management in Managing Projects
- Project Procurement & Contract Management
- Managing Inventory & Warehousing In Projects
- Core Issues in Hi tech Projects
- Managing Project Logistics
- Managing Project Scope & Integration
- Project Management Professional (PMI Version)
- Project Communication and Human Resources Management
- Professional Ethics in Project Management
- Construction Management
- Managing Organizational Culture in Projects
- Advanced Topics in Construction Management
- Managing Human Relations in Projects
- Independent Research
- Managing Conflict in Projects
- Construction Management II
- Software Project Management
- Building Codes and Construction Standards
- Building Information Modeling
- Engineering Laws and Claims Management
- Environmental Management
- Energy Management
- Alternative and Renewable Energy Resources
- Energy Management II
- Energy Efficiency and Conservation
- Occupational Safety and Health
- Energy Modeling
- Software Project Management
- Software Quality Management
- Software Configuration Management
- Software Requirements Management
- Software Metrics
- Managing the E-Governance Project
- Manufacturing Management
- Manufacturing Management II
- ERP Applications in Manufacturing Management
- Lean Manufacturing Management
- Managing Hazardous Waste
- Project Procurement and Sourcing
- Research Methods & Proposal Writing
- Motivation Issues in Managing Projects
- Qualitative Research Methods
- Statistical Data Analysis
- Project Financial Management
- Project Procurement & Contract Management
- Marketing for Technology
- Technology and
- Industrial Competitiveness
- Finance for Technical Managers
- Project Monitoring & Control
- Fundamentals of Supply Chain Management
- Procurement and Sourcing
- Warehousing & Inventory Management
- Global Supply Chain Management
- Seminar in Quality Systems and Standards
- Application of Quality Tools
- Survey of Emerging Concepts in
- Information Technology
- Introduction to Database
- Management System
- Business Applications of
- Internet of Things (IoT)
- Introduction to Artificial Intelligence and its Business Applications
- Taxation and Corporate Governance
- Accounting for Technical Managers
- Estimation, Costing and Pricing
- Dynamics of Information Technology for Decision-Making
- Construction Project Administration
- Construction Planning, Scheduling and Control
- Economic Decision Analysis in Construction
- Construction Cost Estimating and Control
- Introduction to Management Information Systems
- Industrial Psychology for Project related Aspects
- Productivity Engineering
- & Management
- World Trade Organization and Globalization of
- Economies
- Employability & Professional Skills for Technical
- Managers
- Neuro Linguistic Programming Approach for
- Technical Managers
- Thesis

Master of Science in Engineering Management



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, Technical/ Engineering/ Technology/ B.Tech in any discipline or Computer Science/ IT from an HEC recognized University/Institute with Minimum 2.5/4.0 CGPA in semester system or 50% marks in annual system.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

MS in Engineering Management provides engineers, technical managers, and business leaders working in technical environment needed skills, at the management level of technology-based enterprises. The program is well-aligned with industry standards and equips students with the key competencies at the higher end of the operations and strategic decisions making. The strength of this Program is its multidisciplinary approach, combining core business principles with engineering education. This degree offers a double scope curriculum in business management and technical systems. The coursework emphasizes the discipline of planning,

organizing and managing resources to bring about the successful completion of specific project goals and objectives with a project management emphasis.

CAREER PROSPECTS

Conventionally, Pakistani engineers have been doing MBA degree, considering it as the safest path towards promotion & high salary after graduation. Today, it no longer stands true that by only MBA program is a combination for engineer for fast paced promotion & to earn upper salary after engineering. This is the reason that MS in Engineering Management, has gained a lot of popularity in Pakistan and has replaced old style MBA with MEM to Engr. /Technical Managers, who possess a knack to lead and manage a professional organization. For the same reason, it is becoming one of the most attractive Program for aspiring technical & engineering graduates. Now at BS level, our engineering student, usually take up MS in Engineering Management at the graduate level as they understand that managerial skill is the key requirement of the industry these days. & this degree gives them a cutting edge over other technical job applications.

Today after MEM, our graduates are in great demand & are being absorbed in industry due to their advanced technical skills and sufficient managerial expertise, as Project Engineers, Operations Manager, Technical Managers, Project Manager, and Cost Analyst. Production Managers etc.



ROAD MAP		TOTAL SEMESTERS 04			TOTAL CREDIT HOURS 30		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Management of Technical Enterprises	3	Technology And Industrial Competitiveness	3	Elective 1	3	Research Thesis	6
Organizational Excellence through Quality Management	3	Finance for Technical Managers	3	Elective 2	3	OR Two courses in lieu of thesis	
Managing Complex Projects in Technical Concerns	3			Elective 3	3	Elective 4 & 5	

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ELECTIVES

- Strategy for Technology Based Ventures
- Managing Innovation and Entrepreneurship
- Leadership and Management of Change
- Energy Modeling
- Software Project Management
- Software Quality Management
- Software Configuration Management
- Leadership and Management of Change
- Research Methods & Proposal Writing
- Life Skills & People Management
- Project Procurement & Contract Management
- Independent Research on Emerging Engineering Management Issues
- Construction Management
- Construction Management II
- Thesis
- Performance Management
- Chinese Language
- World Trade Organization and Globalization of Economies
- Marketing of Technology
- Qualitative Research Methods
- Statistical Data Analysis
- Operations Management
- Productivity Engineering & Management
- Human Resource Management
- Organization Development in Technical Organization
- Advanced Topics in Construction Management
- Managing Human Relations in Projects
- Managing Conflicts in Technical Enterprises
- Industrial Psychology for Technical Managers
- Employability & Professional Skills for Technical Managers
- NLP Approach for Technical Managers
- Independent Research
- Advanced Topics in Construction Management
- Building Codes and Construction Standard
- Engineering Laws and Claims Management
- Environmental Management
- Building Information Modeling (BIM)
- Energy Management II
- Energy Efficiency & Conservation
- Systems Engineering
- Human Factor Engineering
- Alternative and Renewable Energy Resources
- Industrial Psychology for Technical Managers
- Organizational Communication for Managing Human Relations
- Chinese Language
- Strategy for Technology Based Ventures
- World Trade Organization and Globalization of Economies
- Managing Innovation and Entrepreneurship
- Marketing for Technology
- Manufacturing Management
- Manufacturing Management II
- ERP Applications in Manufacturing Management
- Lean Manufacturing Management
- Project Feasibility and Planning
- Project Risk Management
- Fundamentals of Supply Chain Management
- Procurement and Sourcing
- Warehousing & Inventory Management
- Global Supply Chain Management
- Seminar in Quality Systems and Standards
- Application of Quality Tools
- Introduction to Database Management System
- Business Applications of Internet of Things (IoT)
- Introduction to Artificial Intelligence
- And it's Business Applications
- Taxation and Corporate Governance
- Accounting for Technical Managers
- Estimation, Costing and Pricing
- Dynamics of Information Technology
- For Decision-Making
- Construction Project Administration
- Construction Planning, Scheduling and Control
- Construction Cost
- Estimating and Control
- Research Methods & Proposal Writing
- Qualitative Research
- Methods
- Statistical Data
- Analysis
- Introduction to Management
- Information Systems
- Construction Cost
- Estimating and Control
- Thesis

Master of Science in Total Quality Management



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of formal education (with minimum second division or equivalent CGPA) in 16 years of formal education in Engineering/ technical/ IT/ MIS/ Business or Public administration or hard Sciences/ Natural Sciences/ Commerce/ Medical Sciences from HEC recognize institution with Minimum 2.5/4.0 CGPA in semester system or 50% marks in annual system.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The Master of Science in Quality Management will create graduates that understand the theory and practical application of quality management tools and techniques, with particular emphasis on the quality implementation to gain meaningful operational excellence. Our M.S in Total Quality Management is designed for those, who wish to move into Quality field as expert either in their current technical or business field, or into a new field of their expertise.

This program has been designed to create a pool of professionals both in manufacturing and Services with focus on specific quality management skill which intends to translate into savings and avoidance of waste. Programs will also equip its graduates with latest international standards of Quality with a view to make them more acceptable and competitive in international market.

CAREER PROSPECTS

Graduates are prepared to serve as total quality Manager and team members, who add value through innovation, customer focus, prudence, and professional responsibility.

Graduates of Project Management programs have very bright Job future and can be absorbed in new mega Dams and China Pakistan Economic Corridor (CPEC).

ELECTIVES

- Introduction to Metrology
- Quality in Manufacturing
- Seminar in Service Quality
- Quality Through Management of Change
- Managing Resources in Hi-Tech Organizations
- Seminar in Six Sigma
- Organizational Excellence Frameworks and Models
- Advance Topics in Quality Management
- Quality Strategy for Successful Business
- Life Skills & People Management
- Financial Aspects in Quality Management
- Quality Engineering
- Software Quality Management
- Seminar in Lean Management
- Supplier Quality Management
- Research Methods and Proposal Writing
- Qualitative Research Methods
- Statistical Data Analysis
- Smart City & quality of life
- Quality of working life
- Social Dimension of Quality
- Thesis

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04			TOTAL CREDIT HOURS 30		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Managing Projects in Complex Organization for Quality	3	Financial Aspects in Quality Management	3	Elective 2	3	Research Thesis	
Organizational Excellence through Quality Management	3	Management of Technical Enterprises	3	Elective 3	3	OR	
Seminar in Quality Systems and Standards	3	Elective 1	3			Two courses in lieu of thesis	6
						Elective 4 & 5	



Master of Science in Management Information Systems (FUTURE)



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, , Technical/Engineering/ Management/ Business/MIS/MIT/MCS from HEC recognized University/Institute with Minimum 2.5/4.0 CGPA or 50% marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

MIS is the application of computer & Information Technology to managerial programs. It is the study of people, technology, organizations, and the relationships among them. Its professionals provide support the firms to realize maximum benefit from presence of personnel, equipment, and business processes as it is a people-oriented field with an emphasis on service through technology. With MS MIS, students will acquire foundational business knowledge with courses focused on Information Systems. The core objective of this unique program of is to produce "Technical leaders" for "Hi-Tech Work Environment" with strong communication and management skills, in addition to solid technical knowledge in data analytics, and the analysis, design, and implementation of information system.

CAREER PROSPECTS

MIS degree prepares you for multiple career paths. The degree develops and consolidates the most sought after Jobs of Business Analyst, IT Consultant, Systems Analyst, Business Intelligence Analyst, Info System Manager, IT User Liaison in national and multinational organizations along with government departments, banks, universities, service organizations striving for business automation and Business Process Reengineering. Forward looking organizations and corporate sector is

offering Information Officer jobs. E-Government in Pakistan, defense forces, Law enforcement Agencies, Universities and advanced hi-tech industry, automated plant, Supply chain, Inventory Management, Warehousing are also decent places for MIS graduates. In the coming era of new world controlled by Artificially Intelligent Machine, there will be millions of new professional growth opportunities likely to appear in international arena for MIS graduates. Pursuing PhD abroad is another string prospect of intellectual growth.

ELECTIVES

- Introduction to Information Security
 - Fundamentals of Big Data
 - Web Computing & Mining
 - Introduction to Computer & Information Technology
 - Introduction to Artificial Intelligence & Its Application
 - Foundation of Data Analysis
 - Machine Learning
 - Information Retrieval and Text Mining
 - Web Programming and Technologies
 - Distributed Systems and Web Technologies
 - Fundamentals of E-Business Promotion
 - Fundamentals of Decision Support System
 - Enterprise Data Management
 - Business Data Communications & Networking
 - Applied Cryptography
 - Cyber Security
 - Data Warehouse and Mining
 - Data Analytics
 - Introduction to Computer Graphics
 - Decision Support System
 - Requirement Engineering
 - Advance Topics in E-Marketing
 - Statistical Analysis for Research in MIS
 - Web Engineering
 - Software Process Management and Metrics
 - Fundamentals of Web Application Development
 - Application of Digital Marketing in Industry (Project)
 - Human Dimensions of DSS
 - Dynamics of Decision Support System Through MIS
 - Application of Quality Tools in MIS
 - Financial Aspects in MIS
 - Managing Communications in Information Systems Environment
 - HRM for Management Information System
 - Computer Applications in Business
 - Professional & Social Issues in Information Management System
 - Human Computer Interaction in MIS
 - Advance Topics in Building Information System
 - Survey of Emerging Concepts in Information Technology
 - Thesis
- (This is partial list of Electives)

Pre-Require Courses for Non-Computer /Non-IT Graduates

- Introduction to Computer & Information Technology
- Computer Applications in Business
- Survey of Emerging Concepts in Information Technology
- Introduction to Operating System
- Introduction to Database Management System
- Introduction to Artificial Intelligence & Internet of Things
- Human Computer Interaction

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

For Computer/IT Graduates

ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Introduction to Management Information System	3	Management of Change in MIS	3	Research Methodology	3	Research Thesis	6
Organizational Excellence through Quality Management	3	Data Sciences for Business Intelligence	3	Elective 1	3	OR	
Managing Projects in Technical Organization	3	Software Management for Business	3			Two courses in lieu of thesis (i.e Elective 3 & 4)	

Master of Science in Supply Chain Management



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of formal education (with minimum second division or equivalent CGPA) in 16 years of formal education in Business / Management/ Economics/ Engineering/ technical/ IT/ MIS/ or Public administration or Hard Sciences/ Marketing/ HRM or related field from an HEC recognized institution with Minimum 2.5/4.0 CGPA in semester system or 50% marks in annual system.
- UOL Entry Test / Interview is mandatory.**

This unique Master of Science in Supply Chain Management Program at LSPS, UOL is designed to give a solid foundation in everything that includes supply chain management—starting from sourcing, inventory, logistics, communication & financial issues, data analytics, use of technology, marketing, quality, HR, MIS and customer relationship Management. Student will gain deep, functional supply chain management expertise and the multifaceted perspective necessary to have in depth expertise at managerial positions.

This MS in SCM is meant for those, who are searching for professional jobs, & wish to move into Supply Chain Management, either in their current technical and business field, or into a new field of their expertise. Graduates of this program, may have a very wide range of academic and professional backgrounds & considering to switch to this new emerging global field. After graduation, students will be able to put their knowledge into action. It will enable them to accept all emerging supply chain challenge in a real-world.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

CAREER PROSPECTS

Graduates are prepared to serve as project leaders and team members in key logistic organizations as Supply Chain Managers, who are capable to add value through innovation, customer focus, prudence, and professional responsibility, consistent with the objectives of the projects in which they are involved and the organizations they support. The degree develops and consolidates the most sought after skills, in Supply related industry starting from Oil industry to food and Manufacturing including China Pak Economic Corridor (CPEC), or new Mega Dams construction, big shopping malls, logistic companies, National/public organization including Defense Forces involved in nation-wide supply of goods and products and related Supply Chain activities.

ELECTIVES

- Advance Logistics Management
- Business Research Methods focus on Supply Chain Management
- Software Simulations in Supply Chain Management
- Enterprise Resource Planning
- Strategic Purchasing Management
- Logistics and Physical Distribution
- Managing Operations in Supply Chain
- Advance Topic in Supply Chain
- Strategy for Successful Operations in Supply Chain
- Leadership in Supply Chain Management
- Logistics Systems Analysis
- Contract & Claims
- Management
- Dynamics of International Trade
- Management of Procurement and Supply
- WTO & Globalization of Economies
- Business Research Methods focus on Supply Chain Management
- Software Simulations in Supply Chain Management
- Financial Issues in Supply Chain Management
- Independent Research in Supply Chain
- Managing Risks in Supply Chains.
- Research Thesis

ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Fundamentals of Supply Chain Management	3	Quality Management in Supply Chain	3	Elective 2	3	Research Thesis	6
Procurement And Sourcing	3	Global Supply Chain Management	3	Elective 3	3	OR	
Warehousing & Inventory Management	3	Elective 1	3			Two courses in lieu of thesis	
						Elective 4 & 5	





Master of Science in Clinical Psychology

Program Duration: 2 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Formal Education, M.Sc. Psychology or BS (Hons) Psychology from an HEC recognized University/Institute with Minimum 2.5/4.0 CGPA with Minimum 2.5/4.0 CGPA in semester system or 50% marks in annual system.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The Clinical Psychologists go through vigorous trainings in administering psychological tests, interpreting the results and diagnosing patients. This training includes writing and learning how to evaluate reports and referrals. They are further trained for conducting therapeutic sessions using the various theories of Psychotherapy (like Psychoanalytic, Cognitive Behavioral, Humanistic etc) focusing on techniques and styles especially designed for the treatment of specific disorders. The students practice through role plays, behavioral rehearsals, modeling and content analysis of their sessions. They are provided with expert supervision by practicing psychologists and professors with years of clinical and supervisory experience.

CAREER PROSPECTS

The mission statement of the department is to produce knowledgeable, self-aware, thoughtful, responsible and well-adjusted individuals, who are responsive to the needs of rapidly changing social world. To achieve these objectives, the Department of Psychology, endeavors to enhance the understanding of students about social, environmental and cultural factors relevant to mental health and also enable them to apply this knowledge in their own personal and professional lives for better adjustment, learning and success. Our graduates usually pursue academic career in different mental wellness centers and can go for PhD in their areas of interest. There are abundant job opportunities in both public/corporate sectors, & Defense forces for Clinical Psychologist.

Recent industry trends show that organizations are now interested in hiring MS Psychology graduates, who have acquired deeper insight into psychological research, strategies and processes improvement including HRD.

ELECTIVES

- Professional and Ethical Issues in Psychology
- Muslim Approaches to Psychotherapy
- Family/Systemic Therapy
- Conflict Management & Resolution
- Motivation: Theory and Practice
- Human Resource Management
- Personality and Behavior Change
- Positive Psychology
- Staff Counseling
- Research Method & Proposal Writing
- Health Psychology
- Sports Psychology
- Developmental Psychology
- Consumer Psychology
- Educational Psychology
- Environmental Psychology
- Advance Topics in School Psychology
- Forensic Psychology
- Political Psychology
- Business Psychology
- Organizational Communication
- Human Relations through NLP
- Organizational Behavior
- Organizational Culture
- Organizational Development
- Introduction to Industrial and Organizational Psychology
- Managing Human Relation in Organization
- Psychological Issues in Financial Institutions
- Advance Topics in Child Psychology
- Leadership & Management of Change
- Advance Topics in Child Psychology
- Parent and Child Relations
- Children with Special Needs
- Childhood Development
- Child and Adolescent Psychotherapy
- Child and Adolescent Assessment and psychopathology
- Practicum in Child Development
- Advance Topics in Forensic Psychology
- School Psychology
- Statistical Data Analysis
- Qualitative Research Methods
- Trauma, Abuse, and Violence
- The Psychology of Criminal Behavior
- Thesis

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04		TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.
Psychological Assessment	3	Neuropsychology and Psychopharmacology	3	Clinical Placement-2	3
Psychopathology	3	Clinical Placement-1	3	Elective -2	3
Psychotherapeutics	3	Elective-1	3		
					Research Thesis Or 2 Electives in Lieu of Thesis
					6



HoD's MESSAGE

Welcome to the vibrant field of aviation; the fascinating world of professionalism, progression, and globalization. Joining the Aviation Degree Programs at Lahore School of Aviation (LSA) will take you to the new heights of success in line with the vision of The University of Lahore. Our department is an emblem of excellence being a true blend of foreign as well as local qualified faculty, and highly skilled aviation professionals. In addition, state of the art infrastructure, academia-industry linkages, and MOUs with International Aviation Bodies extends both theoretical and professional exposure of the students. Our alumni are serving at various renowned local as well as international airlines and airports, which is the testimonial of my words. Focusing on holistic development in terms of Knowledge, Skills, Abilities, and Attitude, LSA is producing highly professional and well groomed candidates for professional world.

Imtiaz Hussain

MSc (Management Sciences)
University of Plymouth, UK

MISSION STATEMENT

The mission of the Lahore School of Aviation is:

To pursue excellence in providing quality education for our students and to prepare students to meet the demands of the national aviation system by preparing them academically and intellectually, by exposing them to real world experiences, and by introducing them to the people who can provide them with real world information. To engage in applied aviation research and scholarly endeavors that may benefit government, industry, general aviation, the public and our students To provide leadership, expertise, and professional development opportunities for aviation professionals and to promote a greater understanding of aviation among the general public.

INTRODUCTION

The University of Lahore visions to achieve excellence in Higher Education and is dedicated to expand its academic programs through introducing new programs that are high in demand and having a great impact on the sustainable development of Pakistan. As a result, we are privileged to offer our aspiring students, our future leaders, new programs like Bachelor of Science in Aviation Management and Bachelor of Science in Aircraft Maintenance Technology that will help them to lead their way to their ambitions and goals. If sky is the limit for your ambition, we are there to help you manage your career and way to the limit. As a student, you are a valuable asset of our program and we care about your professional as well as personal development.

Lahore School of Aviation is committed to excellence and meeting the modern needs of Aviation Industry. Our Faculty comes from a variety of Aviation backgrounds, including retired Pakistan Air Force Instructors, Senior Airline Professionals, Air-Traffic Controllers, Foreign Trained Aviation Professors as well as Managers of General Aviation and Engineers from Aerospace Field.



SCAN THIS TO SEE
FACULTY LIST



Bachelor of Science in Aviation Management



Program Duration: 4 Years

Timing: Morning (Monday-Saturday)

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate/ Intermediate with Minimum 2nd Division or 45% Marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The Bachelors of Science in Aviation Management degree is designed for students pursuing to lead and succeed in the world of Aviation. Harmonizing basic aviation concepts with innovative business ideas and strategy, the programme provides students a rock-solid foundation of Aviation Knowledge, Industry Standards, Principles of Management, and Leadership. The programme explores all façades of Aviation Management, including Airport Planning and Management, Airline Fleet Management, Fiscal Aspects of Aviation, Aviation Marketing, and

Health and Safety Environment in Aviation, Aviation Safety, Aviation Security, and Global Aviation Business Strategies. This approach to Aviation Education gives the student added value over other aviation programs by focusing on the Skills and Knowledge required by today's fast growing Aviation Industry.

CAREER PROSPECTS

The BS Aviation Management degree prepares students for professional careers in the following areas:

- Airline Management
- Airline Flight Operations
- Airline Ground Operations
- Airport Management
- Airport Operations
- Airport Planning
- Aviation Consultancy Firms
- Aviation Charter Firms
- Air Services
- Aviation Regulatory and Safety Services
- Aviation Safety Authorities

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 126	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
ICAO Aviation English	3	English Composition	3	Aircraft Communications	3	Management Information Systems	3
Elementary Physics	3	Principles of Flight	3	Pakistan Studies	3	Safety Management Systems in Aviation	3
History of Aviation	3	Aviation Law	3	Islamic Studies	3	Aircraft General Knowledge	3
Mathematics for Aviation	3	Business Statistics	3	Introduction to Computing and Computer Science	3	Meteorology	3
Critical Thinking	3	Professional Ethics	3	Introduction to Human Resource Management	3	Navigation & Flight Planning	3
Principles of Management	3			Aero Engines	3		
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Airport Operations	3	Airspace Management in Pakistan	3	Business Research Methodology-I	3	Business Research Methodology-II	3
Essentials of Aviation Management	3	Corporate Aviation	3	Principles of Quality Management	3	Operations Management	3
Airport Design & Planning	3	Airline and Airport Marketing	3	Airport Security	3	Aircraft Safety/Accident Investigation, Analysis and Application	3
Organizational Behavior	3	Managerial Leadership	3	Managing Airline	3	Airline and Airport Economics	3
Micro Economics	3	Macro Economics	3	Aviation Project Management	3	Human Factor & Performance in Aviation	3

Bachelor of Science in Aircraft Maintenance Technology



Program Duration: 4 Years

Timing: Morning (Monday-Saturday)

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate/ Intermediate (Physics & Maths Compulsory) with Minimum 2nd Division or 45% Marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

BS Aircraft Maintenance Technology (AMT) program is a Bachelor of Science program that prepares students to enter technical positions in the aerospace industry. The designed curriculum focuses on aircraft structures and system design, operation, test, and inspection. These skills and knowledge joined with a solid science foundation prepares the students for employment in a wide range of aircraft maintenance, manufacturing, and aviation support careers. The Bachelor of Science degree places our graduates for technology leadership roles in the future. We foresee our graduates amongst the managers, directors, vice presidents and CEO's of aerospace companies worldwide.

CAREER PROSPECTS

The BS Aircraft Maintenance Technology (AMT) degree prepares students for professional careers in the following areas:

- Aircraft Machinist Technician
- Aviation Maintenance Instructor
- Aircraft Load Master Technician
- Aircraft fuel system technician
- Hydraulic Mechanic
- Landing Gear Mechanic
- Aircraft Body and Bonded Structure Repairer
- Aircraft Maintenance Planner
- Aircraft Air Conditioning Mechanic
- Aircraft Restorer
- Aircraft Rigging and Controls Mechanic
- Aircraft Steel Fabricator
- Aircraft Structure Mechanic
- Airplane Tester
- Experimental Aircraft Mechanic

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08		TOTAL CREDIT HOURS 126			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English Grammar and Composition	3	Communications Skill	3	Technical Report Writing	3	English for Aircraft Maintenance	3
Physics-I	3	Physics-II	3	Pakistan Studies	3	Computer Aided Drawing	3
History of Aviation	3	Aviation Legislation	3	Islamic Studies	3	Engineering Thermodynamics	3
Mathematics for Technologists	3	Elementary Statistics	3	Introduction to Computer Science	3	Principles of Management	3
Critical Thinking	3	Professional Ethics	3	AC Circuit Analysis	3	Principles of Electric Machines	3
		Basic Electrics	3	Aerodynamics	3		
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Solid State Devices	3	Aircraft Structures	3	Total Quality Management in Aviation	3	Airline Maintenance Management	3
Aircraft Piston Engines	3	Aircraft Materials and Hardware	3	Principles of Marketing	3	Digital Aircraft Systems	3
Maintenance Practices	3	Basics Electronics	3	Basic Digital Circuit Design	3	Airframe Systems-II	3
Mechanics of Materials	3	Engineering Economics	3	Airframe Systems-I	3	Propellers	3
Workshop Technology	3	Aviation Project Management	3	Human Factors in Aviation	3	Gas Turbine Engines	3

School of Accountancy and Finance



HoD's MESSAGE

Lahore School of Accountancy and Finance (LSAF) has been established to offer graduate and post-graduate programmes in commerce, business and finance. These courses have been designed to provide the students with skills and knowledge in applied as well as practical aspects of accounting, commerce and finance, which are meant to supply competent staff to the accountancy profession and industry. The goal of the LSAF is to develop human resource with desired competency in applied accounting and finance, which is essential for effective business and organizational development in the country. To enable students to pursue professional accountancy career, the programmes provide bridging to recognized professional accounting qualifications, such as Chartered Accountancy in Pakistan, Chartered Accountancy in England & Wales, CFA (USA), CPA (USA) ACCA (UK), CIMA (UK), CISI (UK) and CIPFA (UK). LSAF has accredited learning partner arrangements with Emile Woolf International (UK), Becker Professional Education (USA), Chartered Institute of Securities and Investment (UK), Chartered Institute of Public Finance Accountancy (UK), ACCA (UK) and ICAP (PAK).

Muhammad Maqbool

Head of LSAF

M.Com, FCA (PAK), FCA (England & Wales)

FCCA (UK), CPA(USA), CA (Ontario), CPFA (UK), MSCI (UK)

MISSION STATEMENT

To be recognized as one of the foremost research based School of Accountancy and Finance in Pakistan for its excellence and innovation in exploring the advancement of applied knowledge in accountancy and finance as well as learning partnership with business organizations. To produce world class graduates having research capabilities and ideas that strengthen a knowledge based economy and society. To educate individuals who can contribute to the enlightened management and leadership of private and public sector organizations. To support personal development of our staff by focusing on continuous learning, innovation, creativity and activeness in intellectual life. To promote an environment of highly responsible behavior and conduct by our students and staff.

INTRODUCTION

School of Accountancy and Finance has been established to offer graduate and post-graduate programmes in Commerce, Accountancy and Finance. It has been envisaged that the traditional commerce graduates and postgraduates programmes have failed to play an effective role in our increasingly competitive, technologically independent and rapidly changing business environment. As such our graduate and post-graduate programmes have been designed to provide skills and knowledge in applied and practical aspects of accountancy, commerce and finance. These skills are essential for effective business and organizational development in our country. The programmes LSAF are aimed at developing a bridge to internationally recognized professional accountancy qualifications, such as: CA (Pakistan), ACA, (England and Wales), CPA (USA), CFA (USA), ACCA (UK) and CIMA (UK).



SCAN THIS TO SEE
FACULTY LIST

Bachelor of Commerce B.COM (ASSOCIATE DEGREE PROGRAM)



Program Duration: 2 Years
Timing: Morning (Monday - Friday)
Location: Lahore Campus

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, F.A, F.Sc and ICS, or equivalent certificate with Minimum 45% marks.
- UOL Entry Test is mandatory.

INTRODUCTION

The B.Com (ADP) Bachelor program in Commerce is two years program that give academically successful undergraduates the opportunity to pursue MBA, M.Phil Degrees in Accounting, Finance, Management Sciences and Commerce.

CAREER PROSPECTS

Global industrial changes are rapid. These require competent and skilled staff that can manage the fast growth in business organizations. The conventional commerce graduates have fallen short of playing an effective role in this fast changing business environment. As such, The University of Lahore has designed this program (ADP) with the main aim to educate and train the students to become useful and productive members of business management team. The course contents are sufficient to groom the graduates for any major division of the business. The objective of the program are to produce competent commerce graduates who after having studied internationally-recognized curriculum are acknowledged within and outside the country.



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP	TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 67		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Introduction to Accounting	3	Principles of Accounting	3	Financial Accounting 1	3	Financial Accounting II	3
Functional English	3	Element of Contract Law	3	Macro Economics	3	Indirect Taxation	3
Statistics	3	Organizational Behavior	3	Advanced English	3	Business Communication	3
Islamic Studies and Ethics	2	Introduction to Auditing	3	Company Law	3	Financial Control & Internal Audit	3
Business Mathematics	3	Micro Economics	3	Advanced Commercial Law	3	Cost Accounting	3
Information Technology	3	Pak Studies	2	Direct Taxation	3		



Bachelor of Commerce (B.COM)



Program Duration: 4 Years
Timing: Morning (Monday - Friday)
Location: Lahore Campus

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, F.A, F.Sc and ICS, or equivalent certificate with Minimum 45% marks.
- UOL Entry Test is mandatory with 50% marks.

INTRODUCTION

The B.Com (Hons) Bachelor program in Commerce is four years program that give academically successful undergraduates the opportunity to pursue MBA, M.Phil Degrees in Accounting, Finance, Management Sciences and Commerce.

CAREER PROSPECTS

Global industrial changes are rapid. These require competent and skilled staff that can manage the fast growth in business organizations. The conventional commerce graduates have fallen short of playing an effective role in this fast changing business environment. As such, The University of Lahore has designed this program with the main aim to educate and train the students to become useful and productive members of business management team. The course contents are sufficient to groom the graduates for any major division of the business. The objective of the program are to produce competent commerce graduates who after having studied internationally-recognized curriculum are acknowledged within and outside the country. The B. Com (Hons.) programme provides a large number of dynamic disciplines. Earn the following exemptions from the world renowned professional accountancy bodies upon successful completion of BS (Hons):

- 8-11 Paper Exemptions in CA (Pak)
- 8 Paper Exemptions in CA (UK)
- 9 Paper Exemptions in ACCA (UK)
- 10 Paper Exemptions in CIMA (UK)
- Fast track to achieve CPA (USA) within 8 to 12 months period

AREAS OF SPECIALIZATION

ACCOUNTING

- Professional Accounting
- Advanced Auditing and Assurance
- Corporate law and Secretarial Practices
- Advanced Financial Accounting and Reporting
- Advanced Taxation
- Business Finance Decisions
- Advanced Performance Management

FORENSIC ACCOUNTING

- Forensic Investment
- Forensic Dispute Resolution
- Corporate and Criminal Law
- Financial Risk Management

FINANCE

- Business Finance Decisions
- Fundamentals of Finance and Investment Decisions
- Financial and Investment Planning
- Financial and Investment Decisions
- Merger and Acquisition

RISK MANAGEMENT

- Management of Operation Risk
- Measuring and Modeling Risk
- Financial Risk Management
- Strategic Management of Enterprise Risk

FINANCE AND INVESTMENT

- Financial and Management Information
- Financial Institutions and Markets
- Merger and Acquisition
- Strategic issues in Financial Services

ISLAMIC BANKING

- Corporate Governance, Transparency and Risk Management in Islamic Financial Institution.
- Financial Engineering: Islamic Financial Products and Services Development.

- Regulation and Financial Reporting in Islamic Financial Industry
- Islamic Commercial Law (Fiqh. Muamalat. Economics) and Takaful (Islamic Insurance)

MANAGEMENT

- Small Business Management and Entrepreneurship
- Economics Resource Planning
- Crisis and Conflict Management
- Strategic Human Resource Management
- Product and Production Management
- Regulatory Framework and HRM
- Organizational Dynamics
- Managing Relations and Projects
- Business Strategy
- Strategic Financial Management
- Strategic Risk Management

PUBLIC SECTOR ACCOUNTING AND FINANCE

- Public Sector Financial Reporting
- Strategic Public Financial Management
- Data Analysis and Strategy Development
- Business Change Management

SECURITIES AND INVESTMENT

- Financial Services
- International Securities and Investment
- Securities
- Corporate Finance
- Technical Foundation
- Derivatives
- Investment Management

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08			TOTAL CREDIT HOURS 136		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Business Mathematics	3	Computer Application in Business	3	Environmental Sciences	3	Business Communication	3
Functional English	3	Introduction to Auditing	3	Advanced English and Languages	3	Cost Accounting	3
Information Technology	3	Intermediate English and ELTC	3	Statistics	3	Economics of Pakistan	3
Introduction to Accounting	3	Micro Economics	3	Financial Accounting I	3	Financial Accounting II	3
Islamic Studies/Ethics	2	Pak Studies	2	Direct Taxation	3	Financial Control and Internal Audit	3
Elements of Contract Law	3	Principles of Accounting	3	Macro Economics	3	Indirect Taxation	3
						Philosophy	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Basic Marketing	3	Company Law	3	Elective-I	3	Corporate Governance and Law	3
Management Accounting	3	Financial Management	3	Elective-II	3	Entrepreneurship	3
Advanced Commercial Law	3	Human Resource Management	3	Elective-III	3	Thesis/Project & Placement or SAP	6
Preparing Taxation and Computation	3	Organizational Behaviour	3	Elective-IV	3		
Principles of Management/Enterprise Management	3	Presentation Skill Training Course	3	Financial Statement Analysis	3		
Research Method	3	Strategic Business Management	3				



Bachelor of Science in Accounting & Finance



Program Duration: 4 Years

Timing: Morning (Monday - Friday)

Location: Lahore Campus

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, F.A, F.Sc and ICS, or equivalent certificate with Minimum 45% marks.
- ICAP/CAF qualified students are eligible for 60 Cr. Hr. exemptions as per HEC notification.
- Those who have completed 14 Years of education, BA, B.Com and B.Sc or equivalent, a fast track enrollment is allowed in the 5th semester of BS Accounting & Finance after clearing bridging semester.
- UOL Entry Test is mandatory with 50% marks.

INTRODUCTION

The BS (Hons) Bachelor program in Accounting and Finance is four years program that gives academically successful undergraduates the opportunity to pursue MBA, M.Phil. Degrees in Accounting, Finance, Management Science and Commerce.

CAREER PROSPECTS

This program has been designed to develop undergraduate students in applied disciplines of accounting and finance. It focuses on the issues of business accounting and finance so that students can meet the challenges of the corporate world. The program is based on professional accountancy curriculum aims to provide required knowledge in respective disciplines and independent bodies. The degree program also sharpens the ability for further studies, such as MS/M.Phil courses. Students are expected to sustain the rigors of professional education and to apply their knowledge in simulated conditions. The program offers eleven specializations for students interested in completing honors program. The course may also be taken to pursue the professional studies of ACA (UK), CA (PAK). ACCA (UK) and CPA (USA), CFA (USA) and CIA (USA). Earn the following exemptions from the world renowned professional accountancy bodies upon successful completion of BS (Hons)

- 8-11 Paper Exemptions in CA (PAK)
- 8 Paper Exemptions in CA (UK)
- 9 Paper Exemptions in ACCA (UK)
- 10 Paper Exemptions in CIMA (UK)
- Fast track to achieve CPA (USA) within 8 to 12 months period

AREAS OF SPECIALIZATION

ACCOUNTING

- Professional Accounting
- Advanced Auditing and Assurance
- Corporate law and Secretarial Practices
- Advanced Financial Accounting and Reporting
- Advanced Taxation
- Business Finance Decisions
- Advanced Performance Management

FORENSIC ACCOUNTING

- Forensic Investment
- Forensic Dispute Resolution
- Corporate and Criminal Law
- Financial Risk Management

FINANCE

- Business Finance Decisions
- Fundamentals of Finance and Investment Decisions
- Financial and Investment Planning
- Financial and Investment Decisions
- Merger and Acquisition

RISK MANAGEMENT

- Management of Operation Risk
- Measuring and Modeling Risk
- Financial Risk Management
- Strategic Management of Enterprise Risk

FINANCE AND INVESTMENT

- Financial and Management Information
- Financial Institutions and Markets
- Merger and Acquisition
- Strategic Issues in Financial Services

ISLAMIC BANKING

- Corporate Governance, Transparency and Risk Management in Islamic Financial Institution.

- Financial Engineering: Islamic Financial Products and Services Development.
- Regulation and Financial Reporting in Islamic Financial Industry
- Islamic Commercial Law (Fiqh. Muamalat. Economics) and Takaful (Islamic Insurance)

MANAGEMENT

- Small Business Management and Entrepreneurship
- Economics Resource Planning
- Crisis and Conflict Management
- Strategic Human Resource Management
- Product and Production Management
- Regulatory Framework and HRM
- Organizational Dynamics
- Managing Relations and Projects
- Business Strategy
- Strategic Financial Management
- Strategic Risk Management

PUBLIC SECTOR ACCOUNTING AND FINANCE

- Public Sector Financial Reporting
- Strategic Public Financial Management
- Data Analysis and Strategy Development
- Business Change Management

SECURITIES AND INVESTMENT

- Financial Services
- International Securities and Investment Securities
- Corporate Finance Technical Foundation
- Derivatives
- Investment Management

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP							
BRIDGING SEMESTER (For Non Commerce)							CR. HR.
Introduction to Economics			3	Recording Financial Transactions			3
Quantitative Methods			3	Business Taxation			3
Corporate and Business Law			3	Accounting for Cost			3
ROAD MAP	TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 136		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Basic English	3	Business Mathematics	3	Accounting for Cost	3	Advanced Commercial Law	3
Computer Application in Business	3	Economics of Pakistan	3	Advanced English & Languages	3	Business Communication	3
Introduction to Economics	3	Information Technology	3	Direct Taxation	3	Drafting Financial Statement	3
Islamic Studies/Ethics	2	Information for Management Control	3	Implement Audit and Procedures	3	Indirect Taxation	3
Recording Financial Transactions	3	Maintaining Financial Records	3	Elements of Contract Law	3	Environmental Sciences	3
Statistics	3	Pak Studies	2	Intermediate English and ELTC	3	Principles of Marketing	3
						Philosophy	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Financial Reporting	3	Audit and Internal Review	3	Elective-I	3	Corporate Finance	3
Introduction to Business Management/Enterprise Management	3	Corporate Law	3	Elective-II	3	Corporate Governance and Law	3
Managing Finance	3	Financial Management	3	Elective-III	3	Thesis/Project & Placement or SAP	6
Planning Control and Performance Management	3	Presentation Skill Training Course	3	Elective-IV	3		
Preparing Tax Computation	3	Data Analytics & Artificial Intelligence	3	Financial Statement Analysis/ Financial Reporting & Analysis	3		
Research Method	3	Strategic Business Management	3				



Master of Science in Accounting & Finance



Program Duration: 1.5 Years

Timing: Morning / Evening

Location: Lahore Campus

Recognized By: Higher Education Commission

Entry Requirements

- Membership of professional accounting bodies such as ICAP, ICMAP, and ACCA after getting equivalence letter of M.Com from HEC or Equivalent to 16 year education.

CAREER PROSPECTS

This program has been designed to provide students with versatile skills and knowledge in areas of Financial Accounting, Management accounting, Taxation, Strategic Financial Management, Business Planning, and Human Resource Management. The program aims to prepare graduated for teaching at the Universities or College level or carry out research in the field of Accounting, Finance or Auditing.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 03 TOTAL CREDIT HOURS 30			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.
Econometrics	3	Econometrics-II	3	Research Thesis	6
Research Method for Finance	3	Elective 1	3	OR	
Financial Management	3	Elective 1	3	Strategic Public Financial Management	3
Corporate Reporting	3	Elective 3	3	Strategic Case Study	3
Business Change Management	3			OR	
				Block Chain and Crypto Finance	3
				Predictive Analytics	3

ELECTIVES

PUBLIC ACCOUNTING & FINANCE

- Developing Strategy and Data Analysis
- Public Sector Financial Reporting
- Implementing Business Change

PROFESSIONAL ACCOUNTING

- Business Reporting (Mini Case Studies)
- Strategic Business and Finance (Mini Case Studies)
- Advanced Case Studies (Accounting and Finance)

SECURITIES & INVESTMENT

- Financial Services
- International Securities and

- Investment
- Financial Instruments and Securities
- Financial Derivatives
- Corporate Finance Technical Foundation
- Investment Management

FINANCE TECHNOLOGY

- Python Programming
- Business Analytics and

- Visualization
- Artificial Intelligence and Insights
- Business Modelling and Analysis
- Governing Technology for Business Environments
- Data Management and Analysis

Master of Science in Accounting & Finance



Program Duration: 1.5 Years

Timing: Morning / Evening

Location: Lahore Campus

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, BS degree of 4 Years duration with CGPA $\geq$ 2.5/4.0 or MSc annual with at least 60% marks, GAT/Admission Test 50%

INTRODUCTION

MS Accounting and Finance is one and half year program offered to students who hold M.Sc. M.Com BS (HONS.) Accounting & Finance B.Com (Hons.) BBA (Hons) to broaden their knowledge in the research field of Accounting, Finance & Commerce.

CAREER PROSPECTS

This program has been designed to provide students with versatile skills and knowledge in areas of Financial Accounting, Management accounting, Taxation, Strategic Financial Management. Business Planning, and Human Resource Management. The program aims to prepare graduated for teaching at the Universities or College level or carry out research in the field of Accounting, Finance or Auditing.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.



ROAD MAP

TOTAL SEMESTERS 03
TOTAL CREDIT HOURS 35

SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.
Fundamental of Financial and Investment Decisions	3	Financial and Investment Decisions/ Financial Risk Management	3	Dissertation / Thesis / Business Plan	8
English Communication Skills	3	Corporate Governance and Regulation/ Advanced Strategic Finance	3		
Econometrics	3	Financial and Investment Planning	3		
Financial Reporting in Practices	3	Advanced Research Methodology	3		
Statistical Inferences	3				

Master of Science in Accounting & Finance



Program Duration: 2 Years

Timing: Morning / Evening

Location: Lahore Campus

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, BS (4 Years) or MSc degree from HEC recognized Institution with Minimum 2.5/4.0 CGPA or 60% marks in annual system.
- UOL Entry Test / GAT General is mandatory with 50% marks

INTRODUCTION

MS Accounting and Finance is two years program offered to students who hold M.Sc. M.Com BS (HONS.) Accounting & Finance B.Com (Hons.) BBA (Hons) to broaden their knowledge in the research field of Accounting, Finance & Commerce.

CAREER PROSPECTS

This programme has been designed to provide students with versatile skills and knowledge in areas of Financial Accounting, Management accounting, Taxation, Strategic Financial Management. Business Planning, and Human Resource Management. The program aims to prepare graduated for teaching at the Universities or College level or carry out research in the field of Accounting, Finance & Auditing.

ELECTIVES

FINANCE ELECTIVES

- Investment Planning & Management⁴
- Portfolio Management
- Fundamentals of Derivatives

PROFESSIONAL ACCOUNTING ELECTIVES

- Taxation
- Corporate Reporting
- Performance Management

TAXATION ELECTIVES

- Advanced Taxation
- Applied Taxation
- International Taxation

Note: Applicants with 16-years of Business Education can avail exemption (without fee) in certain courses with * if they meet HEC's criteria for course exemption. Exempted courses and their credit hours shall appear on the transcript with a description stating the work as Exempted and the name of the University from where these were originally qualified and earned. Exempted courses will not count in calculations of CGPA.

The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 57	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Principles of Accounting	3	Statistical Inferences	3	Econometrics	3	Research Thesis	6
Cost & Management Accounting	3	Corporate Finance	3	Advanced Financial Management	3		
Audit Framework	3	Financial Reporting in Practice	3	Elective I	3		
Business Taxation	3	Advanced Research Methodology	3	Elective II	3	OR	
						Data Analysis & Strategy Development	3
Business Finance	3	Strategic Business Management	3	Elective III	3	Governance Risk & Performance Management	3
Corporate & Business Law	3	Corporate Governance & Law	3				

Master of Philosophy in Accounting & Finance



Program Duration: 2 Years

Timing: Morning / Evening

Location: Lahore Campus

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, BS (4 Years) or MSc degree form HEC recognized Institution with Minimum 2.5/4.0 CGPA or 60% marks in annual system.
- UOL Entry Test / GAT General is mandatory with 50% marks.

INTRODUCTION

M.Phil. Accounting/Finance is 2 years program offered to students who hold M.Sc. M.Com BS (HONS.) Accounting & Finance B.Com (Hons.) BBA (Hons) to broaden their knowledge in the research field of Accounting, Finance & Commerce.

CAREER PROSPECTS

This programme has been designed to provide students with versatile skills and knowledge in areas of Financial Accounting, Management accounting, Taxation, Strategic Financial Management. Business Planning, and Human Resource Management. The program aims to prepare graduates for teaching at the Universities or College level or carry out research work in the field of Accounting, Finance or Auditing.

LIST OF SPECIALIZATION COURSE

ACCOUNTING

- Advance Corporate Reporting
- Taxation
- Advanced Auditing and Assurance

FINANCE

- Investment Planning and Management
- Portfolio Management
- Derivatives

TAXATION

- Advanced Taxation
- Applied Taxation
- Principal of International Taxation



ROAD MAP

TOTAL SEMESTERS 04
TOTAL CREDIT HOURS 36

SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3-6	CR. HR.
Econometric	3	Elective I	3	Research Thesis	12
Corporate Finance	3	Elective II	3		
Financial Reporting Practices	3	Elective III	3		
Statistical Inferences	3	Advance Research Methodology	3		



Doctor of Philosophy in Accounting & Finance



Program Duration: 3 Years

Timing: Morning / Evening

Location: Lahore Campus

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BS/MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- UOL Entry Test / GAT General is mandatory with 50% marks
- Applicants with 16 years education in other than Business Education discipline need to study deficiency courses.

INTRODUCTION

PhD in Accountancy and Finance program concentrates on defining and preparing professionals for Accounting and Finance thinking. The commencement of PhD Accounting and Finance has been started by University of Lahore during Fall 2013. The program is challenging and opens the door to intellectual fulfillment and exciting career opportunities in research and teaching. Doctoral scholars will be engaged in serious research with faculty after completion of course work and will be required to publish articles in approved academic journals. The research degree requires course work of 48 credit hours followed by research proposal writing, comprehensive examination, and a dissertation of 30 credit hours. The first two year will be devoted to course work, presented in the form a series of weekly seminars. On successful completion examination after year two, candidates will be allowed to submit research proposals for dissertation.

CAREER PROSPECTS

To produce PhD graduates who can conduct high quality academic research, who can publish their research in high quality academic journals, who can obtain senior faculty positions at research universities, who are good teachers, and more generally who are good academics & researchers.

ELECTIVES

FINANCE ELECTIVE COURSES

- Investment Planning & Management
- Portfolio Management
- Fundamentals of Derivatives
- Theories of Finance
- Empirical Finance
- Financial Derivatives & Modeling
- Islamic Finance & Insurance
- Banking & Finance

ACCOUNTING ELECTIVE COURSES

- Taxation
- Corporate Reporting
- Performance Management
- Advanced Taxation
- Advanced Business Reporting
- Business Analysis

Note: Applicants with 16 years education in other than Business Education discipline need to study following deficiency courses:

Principles of Accounting, Cost & Management Accounting, Audit Framework, Business Taxation, Business Finance, Corporate & Business Law.

ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Statistical Inferences	3	Econometrics	2	Qualitative Research Paradigm	3	Elective V	3	Research Thesis	30
Corporate Finance	3	Elective I	3	Macroeconomics	3	Elective VI	3		
Financial Reporting in Practice	3	Elective II	3	Financial Markets and Institutions	3	Financial Forecasting & Analysis	3		
Advanced Research Methodology	3	Elective III	3	Elective IV	3	Academic Writing & Literature Review Analysis	3		

DEAN'S MESSAGE

Welcome to one of the best Pharmacy Institute in Pakistan where commitment of the faculty staff adherence to standards of academic excellence, have contributed immensely to the UOL's enviable reputation. For the last many years; UOL Post-graduate and undergraduate degree programs in diversified areas of Pharmaceutical Sciences have been the leading choice of scholars pursuing degrees within and outside Pakistan. The Faculty of Pharmacy has produced thousands graduates and considered one of the best when it comes to professional services and recognitions all over the world in leading organizations i.e., Multinational Corporations, National/International Corporate Sector, Government Institutions, Academia, and various well-reputed conglomerates. Strong focus is laid on academic excellence for Center of Excellence in Pakistan by ensuring outcome-based education. Students are not only given a cognitive understanding of the subject area they learn; rather explicit focus on the development of their professional skills is priority.

Prof. Dr. Syed Nisar Hussain Shah



DEPARTMENTS

- Department of Pharmacy (HOD, Dr. Kishwar Sultana)
- Lahore School of Clinical Pharmacy LSCP (Director, Dr. Zikria Saleem)
- Lahore School of Pharmaceutical Sciences LSPS (Director, Dr. Kashif Barkat)
- Lahore School of Pharmacology and Basic Medical Sciences LSPBMS (Director, Dr. Muhammad Naveed Mushtaq)
- Lahore School of Phyto-Medical Sciences LSPMS (Director, Dr. Irfan Ullah)



HoD's MESSAGE

Dear Students, Faculty of Pharmacy has the honor to be the largest faculty in private sector with more than 55 Faculty members. FOP offers Pharm.D, M.Phil., and Ph.D. Programs accredited/ recognized by Higher Education Commission (HEC) and Pharmacy Council of Pakistan (PCP). We, at the University of Lahore (UOL), are committed to provide academic excellence in the field of pharmacy. At FOP, we provide personalized, top grade education delivered by experienced and well-qualified faculty who bring an intellectual rigor and practical focus to their classrooms. Our students get benefit from our international partnerships and possibilities of internships and career opportunities in the numerous national and International Organizations. I welcome you to explore the life at Department of Pharmacy, Faculty of Pharmacy, UOL.

Dr. Kishwar Sultana

MISSION STATEMENT

Faculty of Pharmacy, The University of Lahore, is playing a key role in the development and advancement of healthcare professionals by educating them with quality education without gender discrimination and providing ample opportunities to learn and explore to meet the challenges related to the healthcare needs of the nation, state, and all over the world. This will be accomplished by motivating the students to render their services to play a pivotal role in the health care system of Pakistan with full devotion, commitment, and dedication. Our vision is to be recognized globally for excellence in innovation, professionalism, education, and life sciences research.

INTRODUCTION

The Faculty of Pharmacy at The University of Lahore is consisting of over 60 teachers who are competent enough to impart professional and technical education to pharmacy students. 30 of them are holding Ph.D. degrees from well-reputed national and International universities. The majority of the remaining teachers are enrolled in Ph.D. programs in Pakistan and abroad, the rest of the faculty members have at least M.Phil. degree in the relevant disciplines. The faculty members are striving to the best of their abilities to prepare the students for future challenges through the development of communication, problem-solving skills, caring, professionalism, innovation, productivity, and moral ethics among students.



SCAN THIS TO SEE
FACULTY LIST

Doctor of Pharmacy



Program Duration: 5 Years

Timing: Morning (Monday - Friday)

Location: Defence Road Campus, Lahore.

Recognized By:

Pharmacy Council of Pakistan, Higher Education Commission

Entry Requirements

- F.Sc. (Pre-Medical) with minimum 60% marks.
- UOL entry test is mandatory.

INTRODUCTION

The objective of this 5 years undergraduate degree program is to train Pharmacy practitioners to possess advanced expertise, clinical experience and leadership qualities that enable them to be at the forefront of the Pharmacy profession and health care in a variety of settings; institutional, community practice, government, academia, industry and drug development. The curriculum emphasizes a patient centered course of study and involves a structure that will enable students to develop into reflective practitioners with skills and attitudes to evaluate critically and modify practices in a timely and effective manner.

CAREER PROSPECTS

The approved Pharm.D. curriculum has been designed to prepare qualified Pharmacists who will have the complete knowledge of medicines, strong behavior and inspirational ethical values along with writing and communication skills that will enable them to pursue careers in:

- Health Department, Government of the Punjab: as Drug Inspector, Deputy Drug Controller, Drug Controller, Hospital Pharmacists, Clinical Pharmacists, Drug Analyst
- Pharmaceutical and Herbal Industries: as managers in production, procurement, distribution, quality control and quality assurance departments.
- Marketing and sales of drugs and Pharmaceutical Products.
- World Health Organization (WHO) and renowned Non-Governmental Organizations (NGOs)
- Community and Retail Pharmacy
- Forensic Science Agencies
- Drug Regulatory Authority of Pakistan

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.



ROAD MAP		TOTAL SEMESTERS 10				TOTAL CREDIT HOURS 198	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy and Histology	4	English-B (Communication & Writing skills)	4	Islamic Studies	3	Pakistan Studies	2
English-A (Functional English)	2	Pharmaceutical Biochemistry-II	4	Pharmaceutical Mathematics	3	Pharmaceutics-II B (Dosage Form Science)	4
Pharmaceutical Biochemistry-I	4	Pharmaceutical Chemistry II (Organic)	4	Pharmaceutical Microbiology-I	4	Pharmaceutics-III B (Pharmaceutical Microbiology Immunology)	4
Pharmaceutical Chemistry-I (Organic-I)	4	Pharmaceutics-II (Physical Pharmacy-II)	4	Pharmaceutics-II (Pharmaceutical Preparation-I)	4	Pharmacognosy-II	4
Pharmaceutics-I (Physical Pharmacy-I)	4	Physiology-B	4	Pharmacognosy-I	4	Pharmacology And Therapeutics-II (General-II)	4
Physiology-A	4			Pharmacology And Therapeutics-I (General-I)	4	Pharmacy Practice-IB (Bio-statistics)	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Pathology	4	"Pharmaceutical Chemistry-III B (Pharmaceutical Analysis)"	4	"Pharmaceutics-IV A (Industrial Pharmacy)"	4	"Pharmaceutics-IV B (Industrial Pharmacy)"	4
"Pharmaceutical Chemistry-III A (Pharmaceutical Analysis)"	4	Pharmacognosy-II B (Advanced)	4	"Pharmaceutics-V A (Biopharmaceutics Pharmacokinetics)"	4	Pharmaceutics-V B (Biopharmaceutics Pharmacokinetics)	4
Pharmacognosy-II A (Advanced)	4	Pharmacology and Therapeutics-II B	4	"Pharmaceutics-VI A (Pharmaceutical Quality Management)"	4	"Pharmaceutics-VI B (Pharmaceutical Quality Management)"	4
Pharmacology and Therapeutics-II A	4	"Pharmacy Practice-II B (Community, Social Administrative Pharmacy)"	3	"Pharmacy Practice-V A (Clinical Pharmacy)"	4	"Pharmacy Practice-V B (Clinical Pharmacy)"	4
"Pharmacy Practice-II A (Dispensing Pharmacy)"	4	"Pharmacy Practice-III (Computer and its Applications in Pharmacy)"	4	"Pharmacy Practice-IV A (Hospital Pharmacy)"	3	"Pharmacy Practice-IV B (Hospital Pharmacy)"	3
SEMESTER 9			CR. HR.	SEMESTER 10		CR. HR.	
"Pharmaceutical Chemistry-IV A (Medicinal Chemistry)"			4	"Pharmaceutical Chemistry-IV B (Medicinal Chemistry)"		4	
Pharmaceutics-VII A (Pharmaceutical Technology)			4	Pharmaceutics- VII B (Pharmaceutical Technology)		4	
"Pharmacy Practice-VI A (Advanced Clinical Pharmacy-II)"			4	"Pharmacy Practice-VI B (Advanced Clinical Pharmacy-II)"		4	
"Pharmacy Practice-VII A (Forensic Pharmacy)"			3	"Pharmacy Practice-VII B (Forensic Pharmacy)"		3	
"Pharmacy Practice-VIII A (Pharmaceutical Management Marketing)"			3	"Pharmacy Practice-VIII B (Pharmaceutical Management Marketing)"		3	

Master of Philosophy in Pharmaceutics | Pharmaceutical Chemistry Pharmacognosy | Pharmacology



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By:

Pharmacy Council of Pakistan, Higher Education Commission

Entry Requirements

- 16 Years of Education, Pharm. D./B. Pharm/ MBBS or Equivalent with Minimum 2.50/4.00 CGPA in semester system OR 50% marks in annual system.
- Candidate having a basic degree in Pharmacy/ MBBS/ equivalent must be registered with concerned Council.
- UOL Entry Test is mandatory

INTRODUCTION

Evolutionary as well as innovatory changes are visible in the field of Pharmacy education and research all over the world. The need, desire and significance of knowledge, skills and new techniques are reshaping education in Pharmacy. In this era of globalization, there is a dire need to take the full benefits from recent advances as well as developments taking place in more developed countries offering high quality education

in Pharmacy. The Faculty of Pharmacy, University of Lahore, believes in the notion "Think Globally, Act Locally". The postgraduate M. Phil program is being offered by the Faculty of Pharmacy in 05 disciplines, namely, Pharmaceutics, Pharmaceutical Chemistry, Pharmacology, Pharmacognosy, and Pharmacy Practice with the main aim of working in line with the mission of the Higher Education Commission (HEC). Faculty of Pharmacy, The University of Lahore is fully capable of meeting the three key challenges (a) Quality, (b) Access (c) Relevance to ensure innovative teaching, services and novel and multidirectional research.

CAREER PROSPECTS

- Academia and Research
- Pharmaceutical Industries
- Drug Testing Laboratories
- Punjab Forensic Science Agency
- Primary, Secondary and Tertiary Healthcare Department
- Drug Regulatory Authority of Pakistan
- Research and Development

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 30	
M.PHIL PHARMACEUTICS				M.PHIL PHARMACEUTICAL CHEMISTRY			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.
Advanced Pharmaceutics	3	Advanced Industrial Pharmaceutical Sciences	3	Chemistry of Natural Products and Photochemistry	3	Advance Medicinal Chemistry	3
Formulation and Product Development	3	Regulatory Sciences	3	Stability of Drugs	3	Research Methodology and Special Problems	3
Biopharmaceutics & Pharmacokinetics	3	Research Methodology and Scientific Writing	3	Drug Design and Development	3	Regulatory Sciences	3
Microbiology & Molecular Biology	3	Biostatistics	3	Combinatorial Chemistry & Macromolecular Targets	3	Biostatistics	3
SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Research Work and Thesis	3	Research Work and Thesis	3	Research Work and Thesis	3	Research Work and Thesis	3



M.PHIL PHARMACOGNOSY				M.PHIL PHARMACOLOGY			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.
Advances in Pharmacognosy	3	CAM (Complementary and Alternate Medicine)	3	Pharmacology & Therapeutics-I	3	Pharmacology & Therapeutics-V	3
Bio Synthesis and Biotechnology	3	Research Methodology and Scientific Writing	3	Pharmacology & Therapeutics-II	3	Research Methodology and Scientific writing	3
Analytical Techniques in Pharmacognosy	3	Regulatory Sciences	3	Pharmacology & Therapeutics-III	3	Regulatory Sciences	3
Phytochemicals of Natural Origin	3	Biostatistics	3	Pharmacology & Therapeutics-IV	3	Biostatistics	3
SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Research Work and Thesis	3	Research Work and Thesis	3	Research Work and Thesis	3	Research Work and Thesis	3

Note: These courses can be offered at anytime during the course work period.



Doctor of Philosophy in Pharmaceutics | Pharmaceutical Chemistry Pharmacology | Pharmacy Practice



Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 18 Years of Education, MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- Candidate having a basic degree in Pharmacy/ MBBS/ equivalent must be registered with concerned Council.
- UOL Entry Test is mandatory.

INTRODUCTION

The Doctor of Philosophy (Ph.D.) degree is considered the most accomplished academic achievement an individual can attain in his scholastic career requiring extended studies, research, and innovation along with creative, exploratory and intellectual efforts. The need, value and worth of knowledge, expertise, professional skills and new research techniques are going to reshape the Pharmacy education. Faculty of Pharmacy, The University of Lahore, is offering Doctor of Philosophy (Ph.D.) in Pharmacology, Pharmaceutical Chemistry, Pharmaceutics, and Pharmacy Practice.

Pharmacology is multidisciplinary field, based on the knowledge of physiology, biochemistry, cell biology, and molecular biology. Pharmacology with its various subdivisions links to other mainstreams of biomedical and pharmaceutical disciplines that are of immense importance in therapeutics. Faculty of Pharmacy is offering Ph.D. in Pharmacology since 2013.

Pharmaceutical Chemistry is based on core knowledge of medicines including computer aided drug design, synthesis, structure activity relationships and physicochemical characterization of drugs. It paves milestone to new drug discovery as well as standardization of herbal medicines. Faculty of Pharmacy is offering Ph.D. in Pharmaceutical Chemistry since 2014.

Pharmaceutics is the science of converting a drug into a medicine for rationale use with ensured safety and optimal efficacy. This discipline encompasses the formulation development of various types of drugs, dosage forms and pharmaceutical products and devices. The researchers of this discipline have been engaged in the development of novel sophisticated drug delivery systems and expanded the research in this field up to the applications of pharmaceuticals. Faculty of Pharmacy is

offering Ph.D. in Pharmaceutics since 2018.

Pharmacy practice program is designed for pharmacists rendering services in the community and hospital setups with the aim to craft their proficiency in pharmaceutical care - towards healthier society. It further adds to the refinement of pharmacist's communication skills with the patients and other health professionals. The research principle will be carried out in Pharmacy Practice which may either be continuation to the existing knowledge of the subject, or application of known methods of research to some technical problems.

CAREER PROSPECTS

- Academia and Research
- Pharmaceutical Industries
- Primary, Secondary and Tertiary Health Department
- Drug Regulatory Authorities
- Drug Quality Control Boards
- Drug Testing Laboratories
- Forensic Science Agencies
- Pharmacy Councils
- Drug Controllers
- Drug Courts





ROAD MAP		TOTAL SEMESTERS 06	TOTAL CREDIT HOURS 54
Ph.D PHARMACOLOGY			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.
Battery of Pharmacological Test	3	Systemic Anti-Infective Agents	3
Research Methodology	3	Toxicology	3
Metabolic Disorders	3	Neoplastic Disorders	3
Local Anti-Infective Agents	3	Molecular Pharmacology	3
SEMESTER 3-6			CR. HR.
Research Work and Thesis			30

ROAD MAP		TOTAL SEMESTERS 06	TOTAL CREDIT HOURS 54
Ph.D PHARMACEUTICAL CHEMISTRY			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.
Drug Discovery	3	Biological Membranes	3
Structure Activity Relationship (SAR)	3	Drug Solubility	3
Metal Complexes	3	Drug Properties And Pharmaceutical Calculation	3
Pharmaceutical Analytical Techniques	3	Advanced Research Methodology and Research Ethics	3
SEMESTER 3-6			CR. HR.
Research Work and Thesis			30

ROAD MAP		TOTAL SEMESTERS 06	TOTAL CREDIT HOURS 54
PH.D. PHARMACEUTICS			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.
Molecular and Cellular Pharmaceutics	3	Pharmaceutical Care	3
Advanced Pharmaceutical Technology	3	Pharmaceutical Biotechnology and Biopharmaceuticals	3
Advanced Biopharmaceutics	3	Research Methodology and Scientific Writing	3
Specialized Drug Delivery Systems	3	Industrial Pharmacy and Pharmaceutical Regulatory Sciences	3
SEMESTER 3-6			CR. HR.
Research Work and Thesis			30

Note: These courses can be offered at anytime during the course work period.



ROAD MAP		TOTAL SEMESTERS 06		TOTAL CREDIT HOURS 54	
Ph.D PHARMACY PRACTICE					
SEMESTER 1		CR. HR.	SEMESTER 2		CR. HR.
Clinical Pharmacy Skills		3	Advance Pharmacy Practice		3
Guidelines-directed Medical Therapy-I		3	Guidelines-directed Medical Therapy-II		3
Clinical Pharmacokinetics		3	Research Methodology-II		3
Research Methodology-I		3	Statistics-I		3
SEMESTER 3-6					CR. HR.
Research Work and Thesis					30

Note: These courses can be offered at anytime during the course work period.



Bachelor of Science Nutraceutical and Herbal Medicine



Program Duration: 4 Years

Timing: Morning/Evening (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 years of education, F.Sc- Pre-Medical (Physics, Bio & Chemistry) A- Level or Equivalent with minimum of 50% marks
- UOL entry test is mandatory.

- Clinical Nutritionist
- Fitness Consultants
- Quality Control Manager
- Product/ Training Manager
- Food researcher and Scientist
- Food Inspector
- NGO based Jobs
- Food Auditors in Hotel
- Nutraceutical Pharma
- Industry
- Naturopathic Doctors or Herbalist
- Marketing and sales of drugs
- Regulatory Affairs
- World Health Organization (WHO) and renowned Non- Governmental Organizations(NGOs)

INTRODUCTION

The study of Nutraceutical Sciences is concerned with understanding the contribution of food, beverage, and nutritional supplement consumption to growth, development of the optimal biological function, maintenance of health, and treatment of disease while Herbal Medicine is the use of plants to treat disease and enhance general health and wellbeing. Herbs can interact with other pharmaceutical medications and should be taken with care. First ever degree program in Pakistan.

CAREER PROSPECTS

BS Nutraceutical and Herbal Medicine has been designed/formulated to prepare qualified graduates who will have the complete knowledge of nutraceutical medicines, strong behavior and inspirational ethical values along with writing and communication skills that will enable them to pursue careers as a:



Note: The University has policy of full compliance to the guidelines/ requirements prescribed by HEC.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 144	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy-I	3	Anatomy-II	3	Discovering Biodiversity	3	Foundations in Molecular Biology and Genetics	3
Physiology-I	3	Physiology-II	3	Introduction to Molecular and Cellular Biology	3	Fundamentals of Nutrition	3
Biochemistry-I	3	Biochemistry-II	4	Plant Pathology	3	Phytochemistry II	3
Folk Medicine-I	3	Folk Medicine-II	3	Phytochemistry-I	4	Pharmacology and Toxicology	3
Organic Chemistry-I	3	Organic Chemistry-II	3	Elements of Calculus and Statistics	3	Applied Nutritional and Nutraceutical Sciences	3
Herbal Basics	3	Pakistan Studies/ Islamic Studies/Ethical Behavior	2	English Communication and writing skill	2	Complementary and Alternative Medicine	3



ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 144	
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Pharmaceutical Analysis I	3	Applied Nutritional and Nutraceutical Sciences	3	Genomics: Exercise and Disease	3	Research in Human Health and Nutritional Sciences	3
Human Pathology I	3	Microbiology and Parasitology	3	Regulation of Human Metabolism	3	Drug Design and Development	3
Dietary Supplements	3	Advance Dosage Forms	3	Medicinal Chemistry	3	Optional Subject I	3
Pharmacognosy and Nutraceuticals	3	Pharmaceutical Analysis II	3	Nutraceutical Dispensing	3	Optional Subject II	3
Basic Computational Chemistry	3	Human Pathology II (Unit VI)	3	Forensic Medicine and Regulatory Sciences II	3	Research Work and Thesis	6
Introduction to Dosage Forms	3	Forensic Medicine and Regulatory Sciences I	3	Clinical Phytomedicine	3		

ROAD MAP	OPTIONAL COURSES	
Cultivation of Medicinal Plants		3
Medicinal Plants-Identification and Evaluation		3
Marketing and Management of Phytomedicine		3
Product Development		3
Extraction techniques		3
Standardization of Phytomedicine		3
Animal Nutrition		3
Teaching, Learning & Knowledge Transfer		3
Nutrition and Metabolic Control of Disease		3
Functional Foods & Lifestyle		3
Formulation Technology		3



Bachelor of Science Pharmacology and Toxicology



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 years of education, F.Sc.- Pre-Medical (Physics, Bio & Chemistry) A- Level or Equivalent with minimum of 50% marks
- UOL entry test is mandatory.

INTRODUCTION

The BS in Pharmacology & Toxicology is one of the important domain in medicine, forensic, pharmaceutical and other related sciences. This program is being offered to undergraduates who are interested in gaining a comprehensive understanding of the actions of drugs and toxic agents on living cells and tissues.

CAREER PROSPECTS

The broad academic background provides students with a wide array of career opportunities. Many graduates enter medical or dental schools or pursue graduate studies in pharmacology or other biochemical sciences. Pharmacology graduates find employment in technical, production/ analytical, or sales positions as research scientists or drug information specialists in the pharmaceutical industry, government, university

laboratories, forensic medicine and hospitals. Students can also pursue careers in law and management following completion of their BS degree in pharmacology.

- Marketing, sales, drug regulatory affairs and advisory services to pharmaceutical industries
- World Health Organization (WHO) and renowned Non- Governmental Organizations(NGOs)
- Forensic Science Agencies
- Drug Regularity Authorities
- Drug Information Centre
- Research & Development

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC.



ROAD MAP	TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 144		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy-I	3	Anatomy-II	3	Molecular Genetics	3	Pharmacogenomics	3
Physiology-I	3	Physiology-II	3	Pharmacology and Therapeutics-II	4	Pharmacology and Therapeutics-III	4
Biochemistry-I	3	Biochemistry-II	3	Molecular Pharmacology	3	Toxicokinetics	3
General Pharmacology	4	Pharmacology and Therapeutics-I	4	Medicinal Chemistry I	3	Medicinal Chemistry-II	3
Organic Chemistry	3	Analytical Chemistry	3	Toxicology-I	3	Toxicology-II	3
Islamic Studies/Ethical Behavior	2	Pakistan Studies	2	English-A	2	English-B	2



ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 144	
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Pharmacology and Therapeutics- IV	3	Dispensing and Dosage Forms	3	Clinical Pharmacology I	4	Clinical Pharmacology II	3
Pathology-I	3	Microbiology and Parasitology	3	Drug Design and Discovery	3	Optional Subject I	3
Toxicology-III	3	Pathology -II	3	Toxicology-IV	3	Optional Subject II	3
Phyto-medical Science	3	Nutraceuticals and Cosmotology	3	Regulatory Sciences	3	Optional Subject III	3
Computational Chemistry	3	Applied Application of Computer	3	Clinical Psychology and Psychiatry	3	Research Work and Thesis	6
Mathematics and Statistics	3	Forensic Medicine and Toxicology	3	Bioinformatics	2		

ROAD MAP	OPTIONAL COURSES	
Molecular Genetics Laboratory		2
Cell Biology		3
Biopharmaceutics		2
Molecular Biology		3
Instrumental Analysis		2
Digital Business and Marketing		2
Techniques in Pharmaceutical and Medicinal Chemistry		2
Advanced Immuno-Therapeutics		2



DEAN's MESSAGE

Welcome to the Faculty of Science, The University of Lahore. I am pleased that you have chosen to become a part of our family of the Faculty of Science to attain your science education and prepare for a successful career. In today's global digitalized world, education in science and technology has become an imperative for future success. In this context, The University of Lahore is committed to provide excellence, both in academics and research, in various internationally ranked disciplines that include Molecular Biology, Biotechnology, Biochemistry, Bioinformatics, Microbiology, Forensic Sciences, Environmental Sciences, Chemistry, Physics and Mathematics. The University of Lahore is research-oriented world-class educational Institution with state-of-the art laboratory facilities that offers innovative and quality teaching. We, at the Faculty of Science have exceptionally well-qualified, professionally competent and highly experienced faculty, dedicated to help our students to become scientists, researchers, academicians and outstanding leaders / entrepreneurs in the field of innovative science and technology. We, at the Faculty of Science, continuously strive to achieve and maintain excellence in our missions of science education and innovative research to stay at the forefront in the field of science and technology. In the end, I repeat my congratulations and assure you that my entire faculty is committed to achieve excellence in teaching and research and wish to ensure your success. With very warm wishes for a successful and rewarding year!

Prof. Dr. Muhammad Iqbal



DEPARTMENTS

- Physics
- Environmental Sciences
- Chemistry
- Mathematics
- Molecular Biology & Biotechnolgy
- Center for Research in Molecular Medicine



HoD's MESSAGE

Physics is an exciting and inspiring field of study that requires deep analytical reasoning to nurture intellectual curiosity about the world around us. The Department of Physics at the UOL aims to provide quality education to our students. We endeavor for research at the forefront of the frontiers of knowledge. Its internationally reputed faculty, state of the art labs and the good infrastructure have increased its repute not only among its students but also among various industrial organizations for which it serves as a valuable consultancy platform. We offer a diverse platform for undertaking research from pure to applied Physics. On one hand, we encourage our students to explore the mysteries of the fundamental structure of Universe while on the other hand, we seek to establish a footprint in the local & international industry in the fields of Materials Science. Importance of materials Science has already well-recognized by all engineering and non-engineering disciplines, as materials are a vital component of almost every field. The department organizes a regular (weekly) Physics Seminar Series where researchers and scientists from industry and academia are invited to present their research achievements. In addition, research meetings, conferences, workshops, industrial visits etc. are also organized by the department. We hope you will find department of Physics promising with a hope that you shall contribute positively to our environment.

Dr. Sadia Saghar Iqbal

PhD in Physics Nust University Islamabad

MISSION STATEMENT

The Department of Physics imparts high quality education in the discipline of Physics, its subfields and some inter-disciplinary fields. It aims to produce well-groomed graduates who are self-assured in their abilities, have good understanding of physical concepts as well as complete training of the laboratory and computational techniques that aid the physical understanding. The Faculty of Science also promotes research and creative activities of the faculty and students. The Faculty inculcates wider understanding of the nature of physical and allied sciences through quality teaching, technical expertise and research oriented atmosphere.

INTRODUCTION

Department of Physics offers undergraduate and graduate degree programs in the subjects of Pure and Applied domains of Physics as well as several inter-disciplinary areas. Special focus is placed on preparing graduates equipped with basic concepts and hands-on laboratory training at undergraduate and graduate level. Students are specially exposed to practical training in the scientific organizations and industry through a meaningful internship program. They are fully trained to join the job market as a valuable asset soon after completion of their degree or to take up further study without any difficulty. Post graduate teaching and research programs cover fundamental and applied fields incorporating recent trends in various specializations of Physics.



Bachelor of Science in Physics



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, intermediate or equivalent with Physics and Mathematics, with minimum 45% marks, from an accredited institution.
- Pre-medical students may also be admitted. An additional Mathematics course will be offered to premedical students in 1st semester.

- Group Theory
- Detector and Accelerator
- Relativity and Cosmology
- Plasma Physics
- Experimental Techniques in Particle & Nuclear Physics

COMPUTATIONAL PHYSICS

- Numerical Methods
- Data Structure and Algorithms
- Modeling and Simulation
- Introduction to Artificial Intelligence (AI)
- Introduction to Quantum Computing
- Quantum Information Theory
- Fluid Dynamics
- Computer Simulation in Physics

- Introduction to computational solid state physics
- Geographic Information Systems

ELECTRONICS

- Solid-State Electronics
- Integrated circuits analysis and design
- Device fabrication technology
- Digital Electronics
- Electronic material and devices

SPACE PHYSICS

- Astrophysics
- Atmospheric Physics
- Remote Sensing and GIS
- Fundamental Astronomy

Note: Degree is designed as per HEC's approved format. More courses/changes in courses can be added/ swapped in the list as per department's requirement.

INTRODUCTION

The aim of BS Physics program is to equip students with essential skills necessary for professional work as a physicist and is the first step to graduate work in physics. This degree can lead to specialization in various other fields interconnected with physics such as solid state physics and nuclear physics among others. Over the course of four years, students learn new ways and techniques to solve problems and learn to predict the behavior of various systems. They also understand the physical laws that govern the universe and eventually are able to contribute towards answering the unanswered questions.

CAREER PROSPECTS

Depending on the concentration that a student selects during study, various job opportunities are available after completion of the degree. Our graduates are well established and successful in their professional lives being employed by internationally recognized industries and companies and some startup their own initiatives. Some of most visible career options are in forensic science, medical physics, education sector, consultancy, research organization and many others. Career prospects are unlimited in each and every field.

ELECTIVES

MATERIALS SCIENCES

- Introduction to Material Science
- Semiconductor Physics and devices
- Introduction to Nanoscience and Nanotechnology
- Laser Physics

- Methods of Experimental Physics
- Introduction to Photonics
- Introduction to Environmental Physics

PARTICLE PHYSICS

- Introduction to Particle Physics



ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 135	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English –I	3	English-II	3	English-III	3	Quantitative Reasoning 2	3
Islamic Studies	3	Psychology	2	Quantitative Reasoning 1	3	Pakistan Studies	3
Mathematics / Biology	3	Qualitative and Quantitative Methods	3	Calculus-II	3	Physics Education	3
Philosophy of Physics	3	Calculus-I	3	Vector Algebra and Analysis	3	Differential Equations	3
Mechanics	3	Electricity & Magnetism	3	Waves and Oscillations	3	Modern Physics	3
Physics LAB-I	1	Heat & Thermodynamics	3	Physics LAB – III	1	Physics LAB – IV	1
		Physics LAB-II	1				
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Mathematical Methods of Physics I	3	Mathematical Method of Physics II	3	Quantum Mechanics-II	3	Elective II	3
Electrodynamics-I	3	Quantum Mechanics I	3	Atomic and Molecular Physics	3	Elective III	3
Classical Mechanics	3	Electrodynamics-II	3	Solid State Physics –I	3	Research Projects	3
Electronics-I	3	Electronics-II	3	Elective-I	3	Solid State Physics-II	3
Relativity and Cosmology	3	Statistical Physics	3	Nuclear Physics	3	Elective IV	3
Physics Lab-V	2	Physics Lab VI	2	Physics Lab VII	2	Computational Physics	3

Note: Department will offer 4+ elective courses from the list of Elective subjects. (Attached) 4+ elective courses will be required to complete the BS degree.
The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.



Bachelor of Science in Medical Physics



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education/Intermediate, F.Sc. (Pre-Engineering/Pre-Medical)/ICS/DAE/A-Level or Equivalent, Minimum 45% marks.

INTRODUCTION

The aim of BS Medical Physics program is to explore the ways in which Physics is applied in the diagnosis and treatment of illness. Graduate student learns and apply physics based concepts and methodologies to procedures such as medical imaging, radiation therapy, radiation protection and dosimetry. Medical physicists work with doctors, nurses, technicians, and patients. They have three main components of work: clinical service & consultation, research & development, and teaching.

CAREER PROSPECTS

The graduated students have job prospects for medical physicists are almost entirely found in radiation oncology, nuclear medicine and diagnostic radiology.

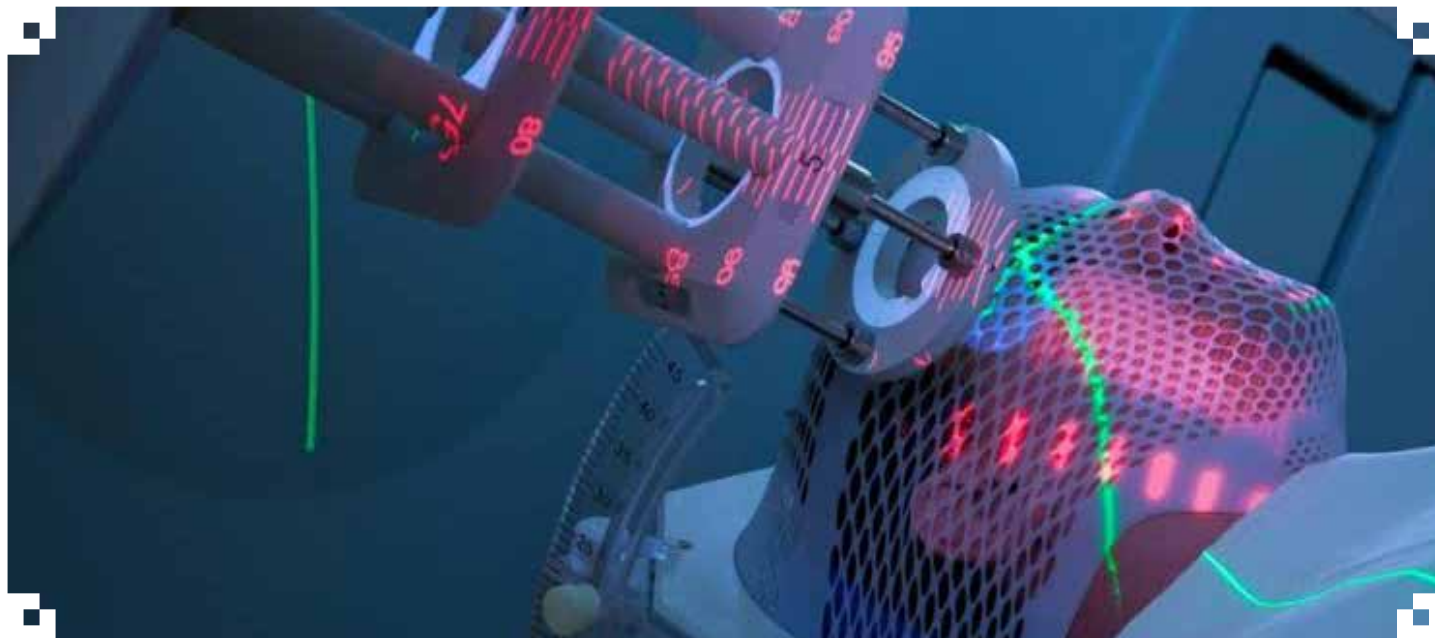
LIST OF ELECTIVE SUBJECTS

- Physics of Diagnostic Radiology
- Physics of Proton Therapy
- Advanced Diagnostic Radiology
- Advanced Radiation Biology
- Medical Applications of LASERS
- Nanotechnology for Biomedical Applications
- Ultrasonic in Medicine
- Biomedical Optics
- Nanomedicine
- Tissue-Biomaterial Interactions
- Applications of Biomedical Engineering
- Medical Electronics and Neural Engineering

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 133	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English –I	3	English-II	3	English-III	3	Linear Algebra	3
Islamic Studies	3	Calculus	2	Bioelectronics	3	Biomedical Instrumentation	3
Psychology	2	Pakistan Studies	3	Thermodynamics of Human Body	3	Modern Radiotherapy	3
Philosophy of Science	3	Mechanics	3	Introduction to Medical physics	3	Principles of Managements	3
Biology	3	Medical and Professional Ethics	3	Computer Algorithm Programing	3	Physics of Human Body	3
Medical Physics Lab –I	1	Medical Physics Lab - II	1	Physics LAB –III	1		
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Physics of Nuclear Oncology	3	Physics of Radiation Oncology I	3	Physics of Radiation Oncology II	3	Elective III	3
Radiation Sciences and Technology	3	Computer Systems in Medicine	3	Medical Imaging Physics and Instrumentation	3	Elective IV	3
Nuclear Medicine	3	Basic Principles of Photodynamic Therapy	3	Physics of Brachytherapy	3	Biomaterials & Design	3
Health Physics and Radiation Safety	3	Research Methods in the Health Sciences	3	Elective-I	3	Physics of Diagnostic Radiology	3
Radiological Instrumentation	3	Shielding Design	3	Elective-II	3	Research Projects / Clinical Internship	3
Physics LAB –IV	2	Medical Physics Lab - V	2	Independent Study in Medical Physics	3	Patient Care Handling and Medical Physics	3



SR. NO.	Laboratory Names	DESCRIPTION
1.	Medical Physics Lab – I	Biology
2.	Medical Physics Lab – II	Mechanics
3.	Medical Physics Lab – III	Electronics
4.	Medical Physics Lab - IV	Medical Instrumentations
5.	Medical Physics Lab - V	Medical Dosimetry





Bachelor of Science in Materials Science

Program Duration: 4 Years
Timing: Morning (Monday-Friday)
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education/Intermediate, F.Sc. (Pre-Engineering/ Pre-Medical)/ICS/DAE/A-Level or Equivalent, Minimum 45% marks.

INTRODUCTION

The bachelor of science in materials science is broad-based, encompassing a wide range of materials, and enables students to understand the scientific principles that govern the relationships among processing, structure, properties, and materials performance. The Bachelor of Science in Materials Science program is to produce graduates well-rounded in the fundamentals of materials science and engineering who are prepared to meet the related needs of industry and government, and prepared for advanced academic study in materials related disciplines. This will be accomplished by providing students with up-to-date knowledge and skills through coursework, modern laboratories, opportunities to conduct cutting edge research with distinguished faculty mentors, and opportunities to participate in leadership and service activities.

CAREER PROSPECTS

Our graduates will rapidly rise to leadership roles in materials-related positions in industry, academia, government, and other career pursuits. They will be global leaders, collaborating with diverse, multi-disciplinary teams while incorporating emerging materials developments and

engineering technologies that are positively changing society and the human condition. They will continue to grow their cumulative knowledge base by engaging in life-long learning via career-appropriate options, including post-graduate education and professional designations. They will become entrepreneurs, continually discovering, designing and creating new materials of all types, building on the process-structure-properties-performance paradigm to exert positive economic and social impacts across the field and society.

LIST OF ELECTIVE SUBJECTS

- Advanced Physics of Materials
- Physics of Nanostructures
- Magnetic Properties of Materials
- Introduction to Surface Science and Spectroscopy
- High temperature Materials
- Powder Metallurgy
- High Strength Materials
- Biomaterials and Application
- Soft Materials
- Energy Storage Materials and Applications
- Manufacturing and Casting
- Technologies
- Materials Characterization Techniques
- Corrosion and Materials Protection
- Business and Entrepreneurship of Materials
- Advanced Materials
- Welding and Joining
- Computational study of materials
- Basic Magnetism and magnetic Materials
- Semiconductor Materials



ROAD MAP		TOTAL SEMESTERS 08			TOTAL CREDIT HOURS 135		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English –I	3	English-II	3	English-III	3	Materials Economics	3
Islamic Studies	3	Physics of Materials	3	Materials Science Principles	3	Structure and Properties of Materials	3
Calculus and Analytical Geometry	3	Pakistan Studies	3	Applied Chemistry	3	Materials Design	3
Fundamental Programming	2	Applied Physics	3	Vector Algebra and Analysis	3	Professional Ethics	3
Fundamental of Materials Science	3	Linear Algebra and Ordinary Differentials equations	3	Entrepreneurship	3	Phase Transformation and Equilibria	3
		Applied Physics Lab	1	Applied Chemistry LAB	1	Material Thermodynamics	3

ROAD MAP		TOTAL SEMESTERS 08			TOTAL CREDIT HOURS 135		
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Polymer Science	3	Ceramics and Glasses	3	Fluids and Solids	3	Electronic and Magnetic Materials	3
Deformation and Fracture	3	Surface Science	3	Interface of Materials	3	Metamaterials	3
Materials Selection	3	Heat Treatments of Materials	3	Composite Materials	3	Industrial Safety	3
Metals and Alloys	3	Microstructural Dynamics	3	Elective-I	3	Elective III	3
Materials Testing Techniques	3	Engineering Drawing and Design LAB	3	Elective-II	3	Elective IV	3
Nanomaterials	3	Inspection and Testing of Materials	3	Final Year Project I	3	Final Year Project II	3





Master of Philosophy in Physics

Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, 2 Years M.Sc., 4 Years BS or Equivalent (in relevant field) with minimum 2.50/4.00 CGPA in semester system or 2nd Division / 45% marks in annual system.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

This degree is designed to equip students to concentrate on their research area and gain deeper understanding and expertise in it. The teaching culture developed at graduate level is highly research-oriented with focus on research methodologies, computational skills and problem solving techniques. The department of Physics has internationally recognized faculty with vast exposure in latest trends in research in their respective domains. Students are encouraged to participate in conferences and present their research work. On average, passing out students publish at least one paper in internationally recognized journals.

CAREER PROSPECTS

Depending on the concentration that a student selects during study, various job opportunities are available after degree completion. Some of most visible ones are Forensic Science, Software Development, Medical Physics, Education Sector, Consultancy and many more. With this extensive background and training, students who want to continue their studies and increase their expertise in their fields can very well do so, with ease.

ELECTIVES

- Quantum Optics-I
- Quantum Optics-II
- Quantum Information Theory-I
- Quantum Information Theory-II
- Condensed Matter Theory-I
- Condensed Matter Theory-II
- Magnetism in Condensed Matter
- Optical properties of Solids
- Methods and Techniques of Experimental Physics
- Magnetism in Condensed Matter
- Materials Science

- Plasma Physics-I
- Plasma Physics-II
- Group Theory
- Superconductivity
- Particle Physics
- General Relativity and Cosmology
- Experimental Plasma Physics
- Atomic Physics
- Accelerator Techniques for Materials
- Advanced Quantum Mechanics II
- Research Methodology
- Statistical Methods and Data Analysis
- Advanced Computational Physics
- Nanotechnology
- Renewable energy sources
- Micro-electronics and semi-conductor devises
- Semiconductor Nano-structures of optoelectronics devises
- Laser Physics
- Advanced Medical and Radiation Physics
- Radiation Oncology Physics
- Diagnostic Radiology Physics/ Medical Imaging Systems
- Health Physics and Radiation Protection
- Radiobiology
- Computational Methods in Medical and Radiation Physics
- Fundamentals of Biophysics and Biomechanics
- Methods in Biophysics
- Bioelectronics and Biosensors
- Standard Model
- Accelerator and Detector Physics
- Experimental Techniques in Particle Physics
- Charmonium Physics
- Quantum Electrodynamics
- Quantum Chromodynamics
- Quantum Field Theory
- String Theory
- Computational Solid State Physics
- Computational Methods in Particle Physics
- Computational Fluid Dynamics
- Computational Methods in Medical and Radiation Physics
- Computational Modeling and Simulation
- Numerical Analysis
- Data Structure and Algorithm Analysis
- Data Handling and Security
- High Performance Computing and Computer Architecture
- Software Engineering
- Advance Solid-State Electronics
- Advance Device fabrication technology
- Advance Optoelectronic Devices
- Advance Semiconductor Material Characterization
- Bioelectronics
- Cosmology
- Remote Sensing of Atmosphere
- Image Processing Techniques
- Astrophysical Techniques
- Atmospheric Physics

Note: Degree is designed as per HEC's approved format. More courses/changes in courses can be added/ swapped in the list as per department's requirement.

The University has policy of full compliance to the guidelines/ requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04		TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3&4	CR. HR.
Advanced Quantum Mechanics I	3	Advanced Methods of Statistical Physics	3	Research Thesis	6
Advanced Electrodynamics	3	Elective-1	3		
Advanced Classical Mechanics	3	Elective-II	3		
Advanced Mathematical Methods of Physics	3	Elective-III	3		

Note: Degree is designed as per HEC's approved format. More courses can be added/ swapped in the list as per department's requirement.



Master of Philosophy in Materials Science

Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, BS/MSc. or Equivalent (in relevant fields: Physics, Chemistry, Biology, Biochemistry, Biotechnology, Materials Science, Polymer Technology, Technology, Mechanical Engineering, Civil Engineering) with at least 1st Division or 2.50 CGPA (out of 4.00).
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

To pursue a broad range of research, we actively seek students with diverse backgrounds and undergraduate training, including physicists, chemists, and engineers from other disciplines. Graduates are expected to keep the global demand for trained materials scientists growing in the twenty-first century. Graduates typically find work in a number of fields including health care, information technologies, automobile and energy.

CAREER PROSPECTS

The Master of Philosophy in Materials Science emphasizes enhancement of professional skills, knowledge, and research techniques. It is highly valuable as preparation for professional practice, and it serves as a foundation for advancement to doctoral study.

LIST OF COMPULSORY COURSES

- Advanced Mathematical Methods
- Advanced Characterization Techniques
- Materials Science
- Research Methodology
- Materials Process Design

LIST OF ELECTIVE COURSES

- Advanced Materials Science
- Materials Thermodynamics
- Surface Science
- Imperfection in Materials
- Renewable energy materials
- Advanced Magnetism and Magnetic

- Materials
- Superconductivity
- Laser Techniques and applications
- Computational study of materials
- Optical Materials and Their Properties
- Composite Materials
- Elastomers
- Physics and Chemistry of Polymers
- Membrane Technology
- Biomedical Materials
- Colloidal Materials
- Ceramics and Glasses
- Interface Science
- Nano Materials and Nano Processing

Note: Degree is designed as per HEC's approved format. More courses/changes in courses can be added/ swapped in the list as per department's requirement.

The University has policy of full compliance to the guidelines/ requirements prescribed by HEC and/or concerned accreditation council for the degree program.



ROAD MAP		TOTAL SEMESTERS 04			TOTAL CREDIT HOURS 30		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	MODEL 1: WITH COURSE WORK SEMESTER 3/4	CR. HR.	MODEL 2: RESEARCH WORK SEMESTER 3/4	CR. HR.
Advanced Mathematical Methods	3	Research Methodology	3	Elective –II	3	Research Thesis	6
Advanced Characterization Techniques	3	Materials Process Design	3	Elective –III	3		
Materials Science	3	Elective –II	3				
Elective –I	3	Elective –III	3				

Doctor of Philosophy in Physics



Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BS/MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The Department of Physics offers PhD programs for those who aspire to extend their knowledge and research in their particular areas of interest. The goal of the program is to prepare the graduates according to international standards, and instill the qualities of leadership in them. The department offers challenging coursework, highly qualified internationally renowned faculty, well-equipped laboratories and an ideal environment to motivate and inspire the researchers. Over the course of their degree, the students master their research skills, deepen their knowledge and understanding, learn new methodologies and bring out their best. A number of publications in renowned journals every year are an evidence of quality of research in the department.

CAREER PROSPECTS

The graduates who pass out are prepared to do world-class research and excel in both academic and professional life. Due to the collaborations of the department with other universities and research groups, PhD students can continue their work both locally and internationally. There are numerous career options, depending on the field of the research of the students. Besides teaching and research, PhD students also contribute towards industry, as well as in the health sector as a skilled medical physicist.

CORE COURSES

- Advanced Quantum Mechanics I
- Advanced Electrodynamics
- Advanced Mathematical Methods of Physics
- Advanced Methods of Statistical Physics
- Methods and Techniques of Experimental Physics
- Materials Science
- Research Methodology
- Particle Physics
- Advanced Computational Physics
- Standard Model of Particle Physics
- Nanotechnology
- Laser Techniques and applications
- Astrophysical Techniques
- General Relativity and Cosmology
- Atmospheric Physics



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Core-I	3	Core-III	3	Elective-V	3	Elective-IX	3	Research Thesis	30
Core-II	3	Core-IV	3	Elective-VI	3	Elective-X	3		
Elective-I	3	Elective-III	3	Elective-VII	3	Elective-XI	3		
Elective-II	3	Elective-IV	3	Elective-VIII	3	Elective-XII	3		

Note: Degree is designed as per HEC's approved format. More courses can be added/ swapped in the list as per department's requirement.

ELECTIVES

- Advanced Quantum Mechanics I
- Advanced Electrodynamics
- Quantum Electrodynamics
- Advanced Classical Mechanics
- Advanced Mathematical Methods of Physics
- Advanced Methods of Statistical Physics
- Quantum Optics-I
- Quantum Optics-II
- Quantum Information Theory-I
- Quantum Information Theory-II
- Condensed Matter Theory-I
- Condensed Matter Theory-II
- Magnetism in Condensed Matter
- Optical properties of Solids
- Condensed Materials
- Composite Materials
- Polymer Physics
- Methods and Techniques of Experimental Physics
- Magnetism in Condensed Matter
- Materials Science
- Advanced Materials Science
- Plasma Physics-I
- Plasma Physics-II
- Lie Algebra
- Superconductivity
- Particle Physics
- General Relativity and Cosmology
- Experimental Plasma Physics
- Accelerator Techniques for Materials
- Advanced Quantum Mechanics II
- Quantum Field Theory
- Research Methodology
- Statistical Methods and Data Analysis
- Supersymmetry
- Advanced Computational Physics
- Standard Model of Particle Physics
- Nanotechnology
- Renewable energy materials
- Micro-electronics and semi-conductor devises
- Semiconductor Nano-structures of optoelectronics devises
- Laser Techniques and applications
- Advanced Medical and Radiation Physics
- Radiation Oncology Physics
- Diagnostic Radiology Physics / Medical Imaging Systems
- Health Physics and Radiation Protection
- Radiobiology
- Computational Methods in Medical and Radiation Physics
- Fundamentals of Biophysics and Biomechanics
- Methods in Biophysics
- Bioelectronics and Biosensors
- Accelerator and Detector Physics
- Experimental Techniques in Particle Physics
- Charmonium Physics
- Quantum Chromodynamics
- String Theory
- Computational Solid State Physics
- Computational Fluid Dynamics
- Computational Methods in Medical and Radiation Physics
- Computational Modeling and Simulation
- Data Structure and Algorithm Analysis
- Data Handling and Security
- High Performance Computing and Computer Architecture
- Advance Solid-State Electronics
- Advance Device fabrication technology
- Advance Optoelectronic Devices
- Advance Semiconductor Material Characterization
- Biomedical Materials
- Remote Sensing of Atmosphere
- Image Processing Techniques
- Astrophysical Techniques
- Climatology and Climate Change
- Atmospheric Physics
- Geographic Information system
- Lattice Dynamics
- Surface Physics
- Intergrable Models



Doctor of Philosophy in Material Science

Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education (BS/MSc.) Or 18 Years of Education {MS/M.Phil. or Equivalent (in relevant fields: Physics, Chemistry, Biology, Biochemistry, Biotechnology, Materials Science, Polymer technology, Technology, Mechanical Engineering, Civil Engineering) with at least 1st Division or 3.00 CGPA (out of 4.00).
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

To pursue a broad range of research, we actively seek students with diverse backgrounds and undergraduate training, including physicists, chemists, and engineers from other disciplines. Graduates are well prepared to practice as materials scientists, excel in graduate study, work to advance the field, or apply their knowledge in other areas, including include law, medicine, or business.

CAREER PROSPECTS

Function as practicing materials scientists with the necessary core competencies to interface with other disciplines to solve problems or apply their knowledge in other areas that might include law, medicine or business and education.

CORE COURSES

- Advanced Characterization Techniques
- High strength materials
- Mechanical Behaviors of Materials
- Advanced Mathematical

Note: Exemption of 24 Credit hours will have considered for M.Phil. Graduated students.

Methods

- Materials Process Design
- Research Methodology

• Materials Science

• Advanced Materials Science

LIST OF ELECTIVE COURSES

- Materials Thermodynamics
- Surface Science
- Imperfection in Materials
- Renewable energy materials and Devices
- Advanced Magnetism and Magnetic Materials
- Superconductive Materials
- Laser Techniques and applications
- Computational study of materials
- Advanced Optical Materials
- Advanced Composite Materials and their Applications
- Elastomeric Materials and their Properties
- Science of Polymeric Materials
- Membrane Science and Applications
- Advances in Biomaterials
- Colloidal Phenomena
- Nanomaterials and Nanotechnology
- Materials Science
- Interface Science
- Nano Materials and Nano Processing
- Advanced Characterization Techniques
- Materials Process Design
- Research Methodology



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Advanced Mathematical Methods	3	Research Methodology	3	Advanced Materials Science	3	High Strength Materials	3	Research Thesis	30
Advanced Characterization Techniques	3	Materials Process Design	3	Mechanical Behavior of Materials	3	Elective –VI	3		
Materials Science	3	Elective –II	3	Elective –IV	3	Elective –VII	3		
Elective –I	3	Elective –III	3	Elective –V	3	Elective-VIII	3		



HoD's MESSAGE

Welcome to the Department of Environmental Sciences (DES) at The University of Lahore, Defence Road Campus, Lahore. Our aim is to create a generation committed to promote sustainable development by changing patterns of environmental, economic and social behaviors. Our Department offers a strong undergraduate and postgraduate programs. We have eight full-time PhD faculty members supervising in the diverse research domains such as environmental management, environmental geochemistry, health safety and environment, agrochemicals in environment, wastewater treatment, environmental nanotechnology, environmental pollution, environmental biotechnology, climate change and environmental impact assessment. We are committed to provide an outstanding educational experience to our students and prepare them for the highest personal and professional achievements. I hope you will enjoy being a part of our proud family at DES. Sincerely, and with best wishes.

Dr. Rab Nawaz

HoD, Environmental Sciences

PhD- Environmental Engineering & Management (AIT, Bangkok)

MISSION STATEMENT

Environmental Science is very a important and challenging field of study. Environmental problems have occurred due to rapid urbanization, industrialization, landuse change, overexploitation of resources, excessive use of agrochemicals, and lack of environmental awareness. The mission of the department is to identify environmental problems and their causes. Our aim is to create a generation committed to promoting sustainable development by changing patterns of environmental, economic, and social behaviors. The degree programs will equip graduates with an ability to understand relations between different components of the environment.

INTRODUCTION

Department of Environmental Sciences offers undergraduate and postgraduate degree programs in the field of Environmental Sciences. Courses are offered to students from physical sciences, biological sciences, environmental management, engineering, and other relevant disciplines. Students are trained to conduct research in laboratories, field stations, universities, research organizations and private companies. The degree and courses offered by the department are designed according to HEC guidelines. The BS and M.Phil programs are launched with highly qualified faculty members. It fulfills all the curriculum requirements recommended by HEC. Our teaching methods comply with international standards and meet all mandatory requirements of HEC.



SCAN THIS TO SEE
FACULTY LIST

Bachelor of Science in Environmental Sciences



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate/ Intermediate (FSc/ICS/DAE) with Minimum 45% Marks.
- 16 Years BS Environmental Sciences :
- Those who have completed 14 Years of education (B.Sc) or equivalent, a fast track enrollment is allowed in the 5th semester along with 4 Years BS Environmental Sciences Program. Deficiency courses may be offered to those who are in need of it

- Pakistan Meteorological Department
- Ministry of Health
- Forest Department
- The Urban Unit Lahore
- Lahore Development Authority
- Water and Power Development Authority
- Water and Sanitation Agency
- Universities & Research Organizations
- WWF-Pakistan & UNEP-Pakistan
- Environmental Consultancies
- Mineral Water Companies
- Construction Companies
- Environmental NGOs & all Major Industries

INTRODUCTION

The Environmental Sciences program is offered to students from biological sciences, physical sciences, agricultural sciences, engineering, environmental management, and other relevant disciplines. The major emphasis is to provide quality education of international standards to build a highly skilled human resource that will contribute toward national and international decision-making and management of environmental and health risks. The Department of Environmental Sciences has highly skilled and foreign qualified Ph.D. faculty with vast exposure in various latest areas of research. Students are encouraged to participate in different activities including seminars, training workshops, and field trips.

CAREER PROSPECTS

The scope of environmental science has increased with growing environmental concerns. In the public sector, there are various jobs at local, provincial, and federal government levels. In the private sector, environmental consultancies and firms have job opportunities for environmental graduates. Environmental sections have also been established by the UN Organizations, World Bank, and Asian Development Bank. Environmental graduates have job opportunities in the following departments and organizations:

- Ministry of Climate Change
- Environmental Protection Agency
- Environmental Protection Department (All Provinces)
- Waste Management Companies (Major Cities)

MINOR COURSES

- Water Resource Management
- Soil and Environment
- Urban Environmental Management
- Pollutant Movement in Soil
- Energy and Environment
- Hydrology
- Agro-ecology
- Occupational Safety, Health and Environment
- Ecotourism
- Environmental Biotechnology
- Air and Noise Pollution
- Environmental Profile of Pakistan
- Population and Environment
- Public Health and Environment
- Environmental Education
- Introduction to International Environmental Law
- Environmental Laws, Policies and Regulations
- Introduction to Environmental Modeling
- Green Environmental Technologies
- Applications of Remote Sensing and GIS in Environmental Management
- Bioremediation Technologies
- Energy and Environment



ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 129	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Foundation of English	3	English Technical Writing and Comprehension	3	Communication Skills	3	Fundamentals of Information and Communication Technologies	3
Biology	3	Basic Chemistry	3	Pakistan Studies	3	Environmental Chemistry	3
Anthropology	3	Fundamentals of Philosophy	3	Islamic Studies	3	Environmental Physics	3
Mathematics	3	Elementary Statistics	3	Introduction to Environmental Sciences	3	Environmental Pollution	3
Creative Arts	3	Introduction to Communication Studies	3	Introduction to Earth Science	3	Environmental Monitoring	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Environmental Microbiology	3	Environmental Policies and Legislation	3	Climate Change	3	Environmental Impact Assessment	3
Environmental Economics	3	Applied Ecology	3	Environmental Management Systems	3	Pollution Control Technologies	3
Project Management	3	Environmental Toxicology	3	Natural Resource Management	3	Solid Waste Management	3
Climatology	3	GIS and Remote Sensing	3	Research Methods in Environmental Science	3	Disaster Management	3
Biodiversity and Conservation	3	Population and Environment	3	Analytical Techniques in Environmental Sciences	3	Final Year Project/ Internship	3
Environmental Profile of Pakistan	3	Occupational Safety, Health and Environment	3	Public Health and Environment	3		

Note: Minor courses can be replaced in the curriculum depending on the available resources.
The University has a policy of full compliance with the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.



Master of Philosophy in Environmental Sciences



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, MSc/BS or equivalent in relevant field (Environmental Sciences, Natural Sciences, Biological Sciences, Agricultural Sciences, Atmospheric Sciences, Soil Science, Physics, Chemistry, Wildlife & Zoology, Botany, Forestry, Geography, Geology) with Minimum 2.50/4.00 CGPA in semester system or 45% marks in annual system. Applicant must have science background (FSc/ICS/DAE) for admission in M.Phil. Program.

INTRODUCTION

M.Phil. Program was launched in Fall 2012. This degree program is designed to conduct research for the purpose of identifying and eliminating sources of pollutants or hazards that affect the environment and human health. Students will be able to utilize and apply scientific knowledge of various disciplines and suggest actions based on data derived from measurements or observations of air, food, soil, water, and other sources. The department has highly qualified faculty for teaching and supervising research at the M.Phil. level. Training workshops and seminars are regularly organized and collaborative linkages with national and international organizations are an important part of the departmental policy.

CAREER PROSPECTS

Environmental graduates have job opportunities in the following departments and organizations:

- Ministry of Climate Change
- Environmental Protection Agency

- Environmental Protection Department (All Provinces)
- Waste Management Companies (Major Cities)
- Pakistan Meteorological Department
- Ministry of Health
- Forest Department
- The Urban Unit Lahore
- Lahore Development Authority & all Major Industries

ELECTIVES

- Health, Safety and Environmental Management
- Treatment and Management of Wastewater
- Energy and Environment
- Alternative Energy Sources
- Remote Sensing and GIS
- Agrochemicals in Environment
- Environmental Applications of Nanomaterials
- Remediation Strategies for Contaminated Environment
- Green Economy
- Population Dynamics and Environment
- Environmental Chemistry
- Environmental Biotechnology
- Cleaner Production Technologies
- Applied Environmental Microbiology
- Wetland Management
- Environmental Nanotechnology
- Advanced Solid Waste Management
- Applied Conservation and Ecology
- Disasters and Natural Hazards Managements

Note: Elective courses are selected from the given list. More elective courses can be added in the list as per department's requirement. The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04		TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3-4	CR. HR.
Research Methods in Environmental Science	3	Elective Course-I *	3	Research / Thesis	6
Climate Change Adaptation and Mitigation	3	Elective Course-II *	3		
Strategic Environmental Assessment	3	Elective Course-III *	3		
Environmental Analytical Techniques	3	Elective Course-IV *	3		





HoD's MESSAGE

Welcome to the department of chemistry at the University of Lahore. Our vision is to enhance our reputation as a world-class teaching and research institution which is recognized for its innovation, and excellence. We aspire to values which are based on the highest professional and academic standards in terms of personal growth and satisfaction offered to our staff and students, growth and excellence in what we do, teamwork that is based on respect, trust and integrity, and innovation to promote growth and value to our research sponsors. The faculty is dedicated to impart training to students in their respective areas of expertise and make them capable of working as a team player in the relevant research group. Department of chemistry at UOL is among the top contributors in terms of research publications. We are constantly on the lookout for bright young minds, who could join us in capacity of students, researchers, or faculty members. We shall be delighted to hear from you.

Dr. Arif Nazir
PhD in Chemistry
UET, Lahore

MISSION STATEMENT

The mission of the Department of Chemistry is to create and maintain programs of excellence in the areas of research, education and public outreach. It endeavors to be a nationally- recognized model for educating and graduating students prepared to compete in and contribute to the ever-changing, technology-centered world of the 21st century. Its aims to create and produce the abilities in the students to hands on work in the laboratory and computational techniques.

INTRODUCTION

Department of Chemistry offers undergraduate and graduate level degree programs in the fields of Pure and Applied domains. The Degree and Courses offered in Chemistry designed according to the scheme of studies approved by the Higher Education Commission (HEC) of Pakistan so as to meet the national and international standards. It focuses on the experimental techniques especially to endow graduates with basic concepts and hands-on laboratory training. Students are trained through practical training in the scientific organizations and industry by organizing a meaningful internship program. The department encourages the students to participate in the research projects, and provide them with possible facilities and guidance. Research activities would result in students presenting their findings at professional conferences and/or co-authoring articles in valued journals. In addition, they will have the opportunity to participate in the activities of different university societies, attend departmental seminars, and contribute to the departmental governance.



SCAN THIS TO SEE
FACULTY LIST

Bachelor of Science in Chemistry

Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Intermediate, F.Sc./ ICS/DAE/A Level or Equivalent (Physics & Chemistry Combination) with Minimum 45% marks.
- 16 Years BS Chemistry
- Those who have completed 14 Years of Education (B.Sc) or equivalent, a fast track enrollment is allowed in the 5th semester along with 4 Years BS Chemistry Program. Deficiency courses may be offered to those who are in need of it

INTRODUCTION

BS chemistry offers the understandings of the basic level to graduate level work in the various field of chemistry. The students will learn about all basic and advanced ideas of the subject and will be equipped to do research in the latest fields as Physiology, Genetics, and Molecular Biology. This degree can lead to specialization in various other fields interconnected with Physics such as Physical Chemistry, Bio-chemistry etc. Over the periods of four years, students will be able to use different techniques to solve problems and perform different experimental work which will be beneficial for his future prospectus.

CAREER PROSPECTS

After completion of their degrees, there are many opportunities are available, for graduate students, in government as well as private organizations such as: Textile, Paint, Pharmaceuticals, Dyes, Fertilizers, Cement Industry, Nuclear science, Surgery, Dentistry, Nanotechnology, Genomics, Forensics, Petroleum & Petrochemicals, Metallurgy, Environmental Sciences, Alternate energy resources, Waste management, Irrigation & Agriculture, Education, Research and Development.

GENERAL COURSES

- Mechanics
- Thermodynamics
- Electricity and Magnetism
- Modern Physics
- Mathematics-I
- Mathematics-II
- Mathematics for Chemistry-I
- Mathematics for Chemistry-II
- Computer Programs for Chemistry
- Biology-I
- Biology-II
- Biochemistry
- Computer Applications
- Computer Science
- Introduction to Environmental Science
- Introduction to Nanochemistry
- Spectroscopic techniques



ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Psychology	3	English-I (Functional)	3	English-II (Writing & Communication)	3	Technical and Scientific Writings	3
Creative Arts	3	History	3	Economics	3	Mathematics for Chemists	3
Pakistan Studies	3	Islamic Studies	3	Statistics	3	Computer Programs for Chemists	3
Mathematics-I/ Biology-I	3	Physics	3	Introduction to Nano-chemistry	3	Applied Chemistry-I	3
Computer Science	3	Environmental Chemistry	3	Computer Applications	3	Spectroscopic Techniques	3
Inorganic Chemistry-I (Course + Lab)	3	Organic Chemistry-I (Course + Lab)	3	Physical Chemistry-I (Course + Lab)	3	Analytical Chemistry-I (Course + Lab)	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Inorganic Chemistry-II (Course + Lab)	4	Inorganic Chemistry-III (Course + Lab)	3	Specialization Course-I	3	Specialization Course-IV	3
Organic Chemistry-II (Course + Lab)	4	Organic Chemistry-III (Course + Lab)	3	Specialization Course-II	3	Specialization Course-V	3
Physical Chemistry-II (Course + Lab)	3	Physical Chemistry-III (Course + Lab)	4	Specialization Course-III	3	Specialization Course-VI	3
Analytical/Applied Chemistry-II (Course + Lab) Optional	3	Analytical/Applied Chemistry-III (Course + Lab) Optional	4	Specialization Course Lab (Minor)	3	Specialization Course Lab (Minor)	3
Medicinal/ Nutritional Chemistry (Minor)	3	Chemistry of Catalyst (Minor)	3	Research Thesis/Position Paper/ Review Article	3	Research Thesis/Position Paper/ Review Article	3

Note: In the Semesters VII & VIII of BS Students will study the courses of their specialization.
The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ELECTIVES

- Electrochemistry – Batteries & Fuel Cells
- Materials Chemistry
- Green Chemistry
- Electronic and Mass Spectrometry
- Stereochemistry
- Nano-chemistry
- Statistics for Chemists
- Biomass Conversion
- Renewable energy
- Peptide Chemistry
- Polymer Nano-composites
- Advanced Organic Reaction Mechanism
- Natural Product Chemistry
- Introduction to Polymer Chemistry
- Organometallic chemistry
- Chemistry and Catalysis
- Instrumental Methods
- Inorganic Spectroscopy
- Organic Spectroscopy
- Corrosion Chemistry

Master of Philosophy in Chemistry

Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, 2 Years M. Sc. Chemistry, 4 Years
- BS Chemistry or equivalent degree (in relevant field) with Minimum 2.5/4.0 CGPA in semester system or 2nd Division in annual system.
- UOL Entry Test and Interview is Mandatory.

INTRODUCTION

This degree is designed as per HEC norms to endow student a deep thoughtful knowledge about the several advanced areas of research. The teaching culture developed at graduate level is highly research-oriented with focus on research methodologies, computational skills and problem solving techniques and experimental work in the well-equipped laboratories designed according to international standards. Students are encouraged to participate in conferences and present their research work.

CAREER PROSPECTS

The graduates of this program are equipped to hands on work in different fields of their career. They are prepared to continue their education in world-class institutions without any difficulty or start professional life in industry. After completion of their degrees, there are many opportunities are available, for graduate students, in government as well as private organizations like forensic department, education sector, pharmaceutical industries and beverage industries, Textile, Paint, Pharmaceuticals, Dyes, Fertilizers, Cement Industry, Nuclear science, Surgery, Dentistry, Nanotechnology, Genomics, Petroleum & Petrochemicals, Metallurgy, Environmental Sciences, Alternate energy resources, Waste management, Irrigation & Agriculture, Research and Development.



GENERAL COURSES

- Computational Chemistry
- Advanced Spectroscopic techniques
- Advanced Chromatographic techniques
- Chemical education
- Research methodology
- Computational Chemistry
- Statistical Data Handling and Mathematics
- Assessment in Higher Education
- Forensic chemistry

ELECTIVES

INORGANIC CHEMSITRY

- Solid State Chemistry
- Chemistry of Organometallics
- Metal-based drugs
- Advanced Electro analytical Techniques
- Inorganic Material Chemistry
- Advanced concepts in transition metal complexes
- Advanced Solid State Chemistry and Characterization Techniques
- Photochemistry of activated molecules
- Symmetry & magneto chemistry
- Chemistry of oxides
- Metallurgical aspects of inorganic compounds
- Advanced chemistry of main block elements

ANALYTICAL CHEMSITRY

- Advanced Spectroscopic Techniques
- Advanced Chromatographic Techniques
- Bioanalytical Chemistry
- Green Chemical Techniques
- Thermal Analysis
- Validation of Analytical Methods.
- Nuclear medicine.
- Food & pharmaceutical analysis
- Forensic Chemistry
- Advances in NMR Spectroscopy
- Surface Analysis Techniques
- Advanced Geo-analytical Techniques
- Mass Spectroscopy
- Green Chemical Techniques

ORGANIC CHEMSITRY

- Natural Products Chemistry
- Synthetic Applications of Named Reactions
- Advanced Spectroscopy
- Advanced Heterocyclic Chemistry
- Organic Polymer Chemistry
- Pharmaceutical Chemistry
- Supramolecular Chemistry
- Phytochemical Techniques
- Modern Trends in Asymmetric Synthesis
- Advanced Stereochemistry
- Pericyclic Chemistry
- Organic Compounds containing S, P & Si
- Dyes and Pigments
- Physical Organic Chemistry
- Phase Transfer Catalysis
- Advanced Nuclear Magnetic Resonance
- Protective groups
- Advanced Mass Spectrometry
- Retro synthesis
- Classics in Total Synthesis
- Symmetry Controlled Reactions
- Biosynthesis of Natural Products
- Chemistry of Glycosides
- Role of Protecting Groups in Organic synthesis
- Physico-Organic Chemistry & Reaction Mechanism
- Modern Trend in Organic Synthesis
- Chemistry of Glycosides
- Bio-Synthesis of Natural Product
- Symmetry Controlled Reactions

ROAD MAP		TOTAL SEMESTERS 04		TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3-4	
Elective-I	3	Elective-I	3	Research Thesis/Course	6
Elective-II.	3	Elective-II.	3		
Elective-III	3	Elective-III	3		
General Course	3	General Course	3		

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

PHYSICAL CHEMSITRY

- Polymers and Advanced Composite Materials
- Advanced Quantum Chemistry
- Advanced Photochemistry and Radiation Chemistry
- Advanced Electrochemistry
- Surface Chemistry
- Advanced Statistical Thermodynamics
- Biophysical Chemistry
- Chemistry of Atmosphere
- Advanced Solid State Chemistry and Characterization Techniques
- Advanced Reactions Dynamics
- Nanomaterials
- Magnetic Spin Dynamics

- Applied Nuclear Chemistry
- Computational Quantum Chemistry
- Colloids and Surface Chemistry
- Gels and Emulsions
- Radio and Nuclear Chemistry

APPLIED CHEMSITRY

- Environmental Impact of Chemical Industries
- Nanomaterials and their applications
- Chemistry of Dyes and Pigments
- Pharmaceutical Chemistry
- Advanced Polymer Chemistry
- Agrochemicals
- Physical Structure of Porous Materials
- Industrial Process Chemistry

- Advances in Petrochemical Industries
- Coal Gasification and Liquefaction
- Alternative Fuels
- Nuclear Fuel Processing and waste management
- Alternative Energy Sources
- Advance Petrochemicals
- Renewable Energy & Material Sources.
- Industrial Microbiology
- Biomass Conversion
- Photo catalysis: Fundamental and applications
- Corrosion Chemistry
- Industrial catalysis
- Synthetic polymers
- Nano-Chemistry and Technology



Doctor of Philosophy in Chemistry



Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BS/MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

This degree is designed as per HEC norms to endow student a deep thoughtful knowledge about the several advanced areas of research. The teaching culture developed at graduate level is highly research-oriented with focus on research methodologies, computational skills and problem solving techniques and experimental work in the well-equipped laboratories designed according to international standards. Students are encouraged to participate in conferences and present their research work.

CAREER PROSPECTS

The graduates of this program are equipped to hands on work in different fields of their career. They are prepared to continue their education in world-class institutions without any difficulty or start professional life in industry. After completion of their degrees, there are many opportunities are available, for graduate students, in government as well as private organizations like forensic department, education sector, pharmaceutical industries and beverage industries, Textile, Paint, Pharmaceuticals, Dyes, Fertilizers, Cement Industry, Nuclear science, Surgery, Dentistry, Nanotechnology, Genomics, Petroleum & Petrochemicals, Metallurgy, Environmental Sciences, Alternate energy resources, Waste management, Irrigation & Agriculture, Research and Development.

GENERAL COURSES

- Computational Chemistry
- Advanced Spectroscopic techniques
- Advanced Chromatographic techniques
- Chemical education
- Research methodology
- Computational Chemistry
- Statistical Data Handling and Mathematics
- Assessment in Higher Education
- Forensic chemistry

ELECTIVES

INORGANIC/ANALYTICAL CHEMSITRY

- Advanced Spectroscopic Techniques
- Advanced Chromatographic Techniques
- Bio-analytical Chemistry
- Solid State Chemistry
- Chemistry of Organometallics
- Metal-based drugs
- Nano-chemistry
- Green Chemistry Techniques
- Thermal Analysis
- Validation of Analytical Methods
- Nuclear medicine
- Food, pharmaceutical and Forensic analysis
- Advanced Electro-analytical Techniques
- Inorganic Material Chemistry
- Characterization of Natural Antioxidants and Essential Oils

ORGANIC CHEMSITRY

- Natural Products Chemistry
- Synthetic Applications of Named Reactions
- Advanced Spectroscopy
- Advanced Heterocyclic Chemistry
- Organic Polymer Chemistry
- Pharmaceutical Chemistry
- Supra-molecular Chemistry
- Phytochemical Techniques
- Advanced Stereochemistry
- Pericyclic Chemistry
- Organic Compounds containing S, P & Si
- Dyes and Pigments
- Physical Organic Chemistry

INDUSTRIAL CHEMSITRY

- Environmental Impact of Chemical Industries
- Nano-materials and their applications
- Chemistry of Dyes and Pigments
- Pharmaceutical Chemistry
- Advanced Polymer Chemistry
- Agrochemicals
- Physical Structure of Porous Materials
- Industrial Process Chemistry
- Advances in Petrochemical Industries
- Coal Gasification and Liquefaction
- Alternative Fuels
- Nuclear Fuel Processing and waste management
- Alternative Energy Sources

PHYSICAL CHEMSITRY

- Polymers and Advanced Composite Materials
- Advanced Quantum Chemistry
- Advanced Photochemistry and Radiation Chemistry
- Advanced Electrochemistry
- Surface Chemistry
- Advanced Statistical Thermodynamics
- Biophysical Chemistry
- Chemistry of Atmosphere
- Advanced Solid State Chemistry and Characterization
- Techniques
- Advanced Reactions Dynamics
- Nano-materials
- Magnetic Spin Dynamics
- Applied Nuclear Chemistry



ROAD MAP		TOTAL SEMESTERS 06							78
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Course-I	3	Course-V	3	Core Course	3	Core Course	3	Research Thesis	30
Course-II	3	Course-VI	3	Core Course	3	Core Course	3		
Course-III	3	Course-VII	3	Elective Course	3	Elective Course	3		
Course-IV	3	Course-VIII	3	Elective Course	3	Elective Course	3		

Note: Any other course according to the availability of facilities, expertise in the institution may be offered.



Department of Mathematics and Statistics



HoD's MESSAGE

The department of Mathematics and Statistics is one of the main department of the University of Lahore. It is the era of advanced technology and modern sciences. The development of any society depends upon the deep knowledge and understanding of mathematics. With the passage of time, many new fields of mathematics have been emerged. Some of them are Fuzzy Set theory, Fuzzy epidemiology, Fractional Calculus, Stochastic nonlinear physical systems and many more in the sequence. The department of Mathematics and Statistics recognizes its onus and also caters other departments of the UOL. The department aims at producing the good citizens as well as the competent mathematicians, future research scholars, skilled teachers, analysist and figure heads. Currently, the department offers the BS, M.Phil. & Ph.D. programs in mathematics and BS degree program in Statistics. In near future, more degree programs in the field of Mathematics and Statistics will be presented, for instance BS (Applied Mathematics) and BS Operations Research. On the same track, new M.Phil. & Ph.D. degree programs are also in the pipeline. The curricula for all the degree programs meet all the challenges of engineerings, technologies, physical sciences, fluid dynamics and medical sciences. Moreover, all the course contents are in line with HEC guidelines. The pedagogies adopted in the department of Mathematics and Statistics meet the international standards as well as the HEC requirements. It is least but not the last, that we have 18 highly qualified professional Ph.D. faculty members who have earned their degrees from well reputed national and international universities.

Prof. Dr. Muhammad Ozair Ahmad
PhD in Mathematics
University of Western Ontario, Canada

MISSION STATEMENT

The Department of Mathematics is established to train the students to become competent professionals and researchers by earning M.Phil. / Ph.D. degree in Mathematics. We have eminent faculty, state of the art facilities and infrastructure of international standards. We are committed to provide outstanding education to our research scholars in accordance with principles of the University mission. The research activities are planned in modern areas of Mathematics to find solutions of current mathematical problems..

INTRODUCTION

The Department of Mathematics is one of the primary departments of the University of Lahore. Its initial setup was laid down and class work started when this university opened her gates for her students to learn and grow. The Department realizes its responsibility to ensure long term vitality of Mathematical Sciences; that it should foster the development of Mathematician as future scholars, teachers, researchers and organizational leaders. The BS (HONS.), M.Phil. & Ph.D. programs were launched in 2013 with highly qualified faculty members. It fulfills all the curriculum requirements for BS (HONS.), M.Phil. & Ph.D. degree as recommended by HEC. Our teaching techniques comply with international standards and meet all mandatory requirements of HEC.



Bachelor of Science in Mathematics



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate/ Intermediate, F.Sc (Mathematics, Physics and Chemistry), F.Sc (Mathematics, Statistics and Economics) I.CS, FA (with Mathematics) with Minimum 45% marks (For F.Sc, FA, and I.CS) & 60% marks (For DAE).
- Those who have completed 14 Years of education (B.Sc) with double math or equivalent with 45%, a fast track enrollment is allowed in the 5th semester along with 4 Years BS Math Program. Deficiency courses may be offered to those who are in need of it
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

This is a 4 year degree program comprising of 8 semesters with a minimum of 126 Cr. Hrs. The minimum and maximum duration to complete BSMAT degree is 4 and 6-years, respectively.

CAREER PROSPECTS

A bachelor's degree in mathematics is an undergraduate degree covering both concepts and methods in core and applied mathematics. A BS in Mathematics gives a broad understanding of mathematics subjects with a strong foundation within a flexible curriculum. A Mathematics BS (hons.) student may choose a career as a teacher or in the industry. Mathematical graduates are in high demand worldwide and can obtain significantly well-paid work in many areas, including investment banking and finance, the civil service, the pharmaceutical industry, and medical statistics. Mathematics graduates are highly employable due to the advanced problem-solving and analytical skills and higher-level numeracy skills developed by studying this subject. There is a strong demand for the financial, business, IT, and education sectors.

ELECTIVE COURSES

- Algebraic Topology
- Field extensions & Galois Theory
- Fluid Mechanics-I
- Fluid Mechanics-II
- Electromagnetism
- Quantum Mechanics-II
- Analytical Dynamics
- Quantum Mechanics-I
- Operation Research-I
- Lie Algebra
- Special Theory of Relativity
- Optimization Theory
- Functional Analysis-II
- Operation Research-II
- Electromagnetic Theory-II
- Theory of Approximation & Spline
- Mathematical Statistics-II
- Riemannian Geometry
- Mathematical Statistics-I
- Theory Of Modules
- Cryptography
- Number Theory-I
- Number Theory-II
- Computer Languages with Applications
- Group Theory-II
- Electromagnetic Theory-I



ROAD MAP		TOTAL SEMESTERS 08			TOTAL CREDIT HOURS 126		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English language and Proficiency	3	Academic Reading and Writing	3	Communication Skills	3	Vector and Tensor Analysis	3
Calculus and Analytical Geometry	3	Linear Algebra	3	Pak Studies	3	Ordinary Differential Equations-I	3
Introduction to sociology	3	Fundamentals Of Psychology	3	Islamiat	3	Multivariate Calculus	3
Discreet Mathematics	3	Introduction to Statistics and Probability	3	Introduction to Computer and Programing(MATLAB)	3	Elementary Number Theory	3
Ethical Leaderships	3	Ethical Challenges of Living for Science Students	3	Applied Physics(Mechanics)	3	Metric Spaces and Group Theory	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Real Analysis-I	3	Functional Analysis-I	3	Numerical Analysis-II	3	Measure Theory and Lebesgue Integration	3
Group Theory-I	3	Numerical Analysis-I	3	Methods of Mathematical Physics	3	Fractional Calculus	3
Complex Analysis-I	3	Real Analysis –II	3	Fuzzy Logic and Applications	3	Elective-3	3
Ordinary Differential Equations-II	3	Rings & Field Theory	3	Elective-1	3	Elective-4	3
Topology	3	Introduction to Mathematical Modeling	3	Elective-2	3	Project	3
Graph Theory	3	Partial Differential Equations	3				

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.



Bachelor of Science in Mathematics (Applied)



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

12 Years of Education, Higher Secondary School Certificate/ Intermediate, F.Sc (Mathematics, Physics and Chemistry), F.Sc (Mathematics, Statistics and Economics) I.CS, FA (with Mathematics) with Minimum 45% marks (For F.Sc, FA, and I.CS) & 60% marks (For DAE). Those who have completed 14 Years of education (B.Sc) with double math or equivalent with 45%, a fast track enrollment is allowed in the 5th semester along with 4 Years BS Math Program. Deficiency courses may be offered to those who are in need of it. UOL Entry Test / Interview is mandatory.

CAREER PROSPECTS

A bachelor's degree in mathematics is an undergraduate degree covering both concepts and methods in core and applied mathematics. A BS in Mathematics gives a broad understanding of mathematics subjects with a strong foundation within a flexible curriculum. A Mathematics BS (hons.) student may choose a career as a teacher or in the industry. Mathematical graduates are in high demand worldwide and can obtain significantly well-paid work in many areas, including investment banking and finance, the civil service, the pharmaceutical industry, and medical statistics. Mathematics graduates are highly employable due to the advanced problem-solving and analytical skills and higher-level numeracy skills developed by studying this subject. There is a strong demand for the financial, business, IT, and education sectors.

INTRODUCTION

This is a 4 year degree program comprising of 8 semesters with a minimum of 126 Cr. Hrs. The minimum and maximum duration to complete BSMAT degree is 4 and 6-years, respectively.

ROAD MAP		TOTAL SEMESTERS 08			TOTAL CREDIT HOURS 126		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English Language Proficiency	3	Academic Reading and Writing	3	Communication Skills	3	English for Practical Aims	3
Applied Calculus-I	3	Applied Calculus-II (Multivariate Calculus)	3	Applied Linear Algebra	3	Ordinary Differential Equations-I	3
Sociology	3	Islamic Studies	3	Pakistan Studies	3	Introduction to Probability and Statistics	3
Applied Discrete Mathematics	3	Fundamentals of Psychology	3	Mechanics-II	3	Fundamentals of Operational Research	3
Applied Physics	3	Vector and Mechanics-I	3	Metric Space and Group Theory	3	Introduction to Computer and Applications	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Mathematical Analysis-I	3	Mathematical Analysis-II	3	Numerical Analysis-II	3	Measure Theory and Lebesgue Integration	3
Introduction to Fractional Calculus	3	Numerical Analysis-I	3	Mathematical Methods	3	Advanced Operation Research	3
Complex Analysis-I (Analytic Functions and Complex in Integration)	3	Applied Functional Analysis	3	Set Topology	3	Advanced Fractional Calculus and its Application	3
Ordinary Differential Equations-II	3	Complex Analysis-II	3	Mathematical Biology	3	Number Theory	3
Analytical Mechanics	3	Introduction to Mathematical Modeling and Simulations	3	Optimization Theory	3	Project	3
Differential Geometry and Tensor Analysis	3	Partial Differential Equations	3				

Bachelor of Science in Statistics



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

12 Years of Education, Higher Secondary School Certificate/ Intermediate, F.Sc (Mathematics, Physics and Chemistry), F.Sc (Mathematics, Statistics and Economics) ICS, FA (with Statistics) with Minimum 45% marks (For F.Sc, FA, and I.CS) & 60% marks (For DAE). Those who have completed 14 Years of education (B.Sc) with statistics or equivalent with 45%, a fast track enrollment is allowed in the 5th semester along with 4 Years BS Math Program. Deficiency courses may be offered to those who are in need of it. UOL Entry Test / Interview is mandatory.

INTRODUCTION

This is a 4 year degree program comprising of 8 semesters with a minimum of 120 Cr. Hrs. The minimum and maximum duration to complete BSSAT degree is 4 and 6-years, respectively.

CAREER PROSPECTS

Graduates of the BS-Statistics program may advance their careers in a variety of professional organizations and industries, including the Bureau of Statistics, banking and financial institutions, manufacturing, education, research and development, quality assurance and quality control, and health care. Graduates of BS-Statistics who choose to pursue an academic career may pursue not just MS/PhD degrees in statistics but also a variety of linked subjects such as information technology, project management, and econometrics.

ELECTIVE COURSES

- Operations Research
- Actuarial Statistics-II
- Stochastic Process
- Mathematical Models and Simulation
- Reliability Analysis
- Categorical Data Analysis
- Decision Theory
- Numerical Methods
- Robust Methods
- Statistical Quality Control
- Survival Analysis
- Statistical Computing Using R
- Bio-Statistics
- Bayesian Inference
- Data Mining
- Official Statistics

ROAD MAP	TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 120		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English Language Proficiency	3	Academic Reading and Writing	3	Communication Skills	3	Exploratory Data Analysis and Visualization	3
Calculus and Analytical Geometry	3	Linear Algebra	3	Pakistan Studies	3	Basic Statistical Inference	3
Sociology	3	Fundamentals of Psychology	3	Introduction to Computer & Programing (MATLAB)	3	Introduction to Regression and Analysis of Variance	3
Discrete Mathematics	3	Introduction to Statistics and Probability	3	Islamic Studies	3	Actuarial Statistics-I	3
Ethical Leaderships	3	Ethical Challenges of Living for Science Students	3	Applied Physics [Mechanics]	3	Statistical Computer Packages-I	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Probability and Probability Distribution-I	3	Probability and Probability Distribution-II	3	Econometrics	3	Parametric and Non-Parametric Tests	3
Design and Analysis of Experiments	3	Advanced Design and Analysis of Experiments	3	Statistical Inference-I	3	Statistical Inference-II	3
Sampling Techniques-I	3	Advanced Sampling Techniques	3	Survey and Research Methods	3	Population Studies	3
Regression Analysis	3	Multivariate Techniques	3	Elective-I	3	Elective-III	3
Statistical Computer Packages-II	3	Time Series Analysis	3	Elective-II	3	Elective-IV/Project	3



Master of Philosophy in Mathematics

Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, 2 Years MSc in Mathematics, 4 Years BS or Equivalent in relevant field with Minimum 2.50/4.00 CGPA in semester system or 2nd Division / 45% marks in annual system.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

This is a 2-year degree program comprising of 4 semesters with a minimum of 30 Cr. Hrs. The minimum and maximum duration to complete PHMAT degree is 1.5 and 4-years, respectively.

CAREER PROSPECTS

The program is designed to prepare graduates to teach at colleges or universities. Due to the use of mathematics in modern industry, a mathematician can find jobs in almost every sector of the world. Successful graduates have the option of joining academia or serving the industry. In academia, they can transfer their knowledge to younger students, conduct independent research and continue their studies towards a PhD degree. They can also become a valuable resource for the industry as software engineers, database designers and administrators, network specialists, and software project managers.

CORE COURSES

- Group Theory
- Functional Analysis
- Riemannian Geometry
- Mathematical Techniques
- Partial Differential Equations

- Integral Equations
- Advanced Mathematical Physics
- Advanced Numerical Analysis
- Mathematical Modeling-I

ELECTIVES

- Fluid Dynamics
- Relativistic Astrophysics
- Classical Field Theory
- Quantum Field Theory
- Electrodynamics-I
- Electrodynamics-II
- General Relativity-I
- General Relativity-II
- Cosmology
- Electrodynamics
- Plasma Dynamics
- Advanced Course in Plasma Physics
- Magneto hydrodynamics-I
- Magneto hydrodynamics-II
- Optimization-I
- Optimization-II
- Optimal Control Problem for PDEs
- Integral Transform

COMPUTATIONAL MATHEMATICS

- Graph Theory
- Design Theory
- Theory of Spline Functions I
- Theory of Spline Functions II
- Theory of Spline Functions III
- Subdivision Schemes
- Approximation Theory
- Numerical Solution of PDEs
- Mathematical Modeling-II
- Minimal Surfaces

- Computer Graphics
- Multigrid Methods for PDEs Optimization

PURE MATHEMATICS

- Lattice Theory
- Topological Groups
- Banach Algebras-I
- Banach Algebras-II
- Rings and Modules
- Operator Theory
- Lie Algebras & Lie Groups
- Field Extensions & Galois Theory
- Linear Groups & Group Representations
- General Topology
- Homotopy Theory
- Homological Theory
- Representation Theory
- BCK Algebra
- BCL Algebra
- Advanced Theory of Rings and Modules
- Spectral Theory in Hilbert spaces-I
- Spectral Theory in Hilbert spaces-II
- Harmonic Analysis
- Advanced Measure Theory
- Advanced Number Theory
- Combinatorics
- Monomial Algebra

ROAD MAP		TOTAL SEMESTERS 04		TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3 & 4	CR. HR.
Core Course	3	Core Course	3	Thesis / Dissertation for (M.Phil)	6
Core Course	3	Core Course	3		
Elective Course	3	Elective Course	3		
Elective Course	3	Elective Course	3		



Doctor of Philosophy in Mathematics

Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BS/MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- GRE/GAT Subject test with minimum of 60% marks or UOL entry test with minimum of 70%.

INTRODUCTION

This is a 3-year degree program comprising of 6 semesters with a minimum of 54 Cr. Hrs. The minimum and maximum duration to complete DMAT degree is 3 and 10-years, respectively.

CAREER PROSPECTS

The doctoral program in mathematics aims to prepare graduates for productive careers in research, education, and industry in general. Successful graduates have the option of joining academia as well as serving the industry. In academia, they can transfer their knowledge to young students, conduct independent research and supervise master's and PhD theses. They can also have the opportunity to apply for research grants and collaborate with international researchers for research activities.

CORE COURSES

- Riemannian Geometry
- Mathematical Techniques
- Advances Numerical Analysis
- Partial Differential Equation
- Integral Equations
- Group Theory
- Functional analysis
- Advanced Mathematical Physics

- Mathematical Modeling – I
- General Relativity – I
- General Relativity - II
- Cosmology
- Fluid Dynamics
- Mathematical Modeling – II
- Operator Theory

- Spectral Theory in Hilbert spaces – I
- Spectral Theory in Hilbert spaces – II
- Harmonic Analysis

ELECTIVES

APPLIED MATHEMATICS

- Relativistic Astrophysics
- Classical Field theory
- Electrodynamics – I
- Electrodynamics – II
- Magneto hydrodynamics – I
- Magneto hydrodynamics – II
- Elastodynamics
- Plasma Dynamics
- Advanced Course in plasma Physics
- Quantum Field Theory
- Optimization-I
- Optimization-II
- Optimal Control Problems for PDEs
- Integral Transforms
- Advanced Mathematical Biology

- Design Theory
- Minimal Surfaces
- Computer Graphics
- Multigrid Methods for PDEs Optimization

PURE MATHEMATICS

- Rings and Modules
- Lie Algebras & Lie Groups
- Field Extensions & Galois Theory
- Linear Groups & Group representations
- General Topology
- Homotopy Theory
- Topological Groups
- Homological Theory
- Lattice Theory
- Representation Theory
- BCK Algebra
- BCI Algebra
- Advanced Theory of Rings and Modules
- Banach Algebras - I
- Banach Algebras - II
- Advanced measure theory
- Combinatorics
- Advanced number theory
- Monomial Algebra

COMPUTATIONAL MATHEMATICS

- Theory of Spline Functions I
- Theory of Spline Functions II
- Theory of Spline Functions III
- Numerical Solution of PDE's
- Subdivision Schemes
- Approximation Theory
- Graph Theory

ROAD MAP		TOTAL SEMESTERS 06								78
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.	
Course-I	3	Course-V	3	Core Course	3	Core Course	3	Research Thesis	30	
Course-II	3	Course-VI	3	Core Course	3	Core Course	3			
Course-III	3	Course-VII	3	Elective Course	3	Elective Course	3			
Course-IV	3	Course-VIII	3	Elective Course	3	Elective Course	3			

Institute of Molecular Biology & Biotechnology (IMBB)



HoD's MESSAGE

After the launch of University of Lahore in 1999, it was envisioned that a gap exists in the field of Molecular Biology and Biotechnology. It was immediately planned and proposed to establish an institute that should cater ever growing demand of these applied sciences. The University of Lahore took initiative and developed an Institute i.e. IMBB in 2004. Today, it is one of the big institute of The University of Lahore, which offers undergraduate, graduate and post graduate degree programs in all the related fields of bio-medical sciences. The university management has prophesied a plan (10 year) for elevation of The University of Lahore as top-notch teaching and research institution globally. With these timelines, IMBB has sculptured future directions to reduce research gap that exist with other top universities of the world. Our institute faculty is striving in the modern fields like nano-biology, neurological disorders, cancer biology, bioremediation and environmental restoration, surveillance center, one billion tree plantations project under Chao'on Foundation and many more. Our slogan is, "UoL – the GREEN university". In my vision, all graduating students from this institute should pass minimum criteria of learning and skills. This could be implemented with monitored framework for Key Performance Indicators (KPIs). These indicators are mere implemented not only in classrooms as well as teaching abilities of the faculty. The students are also vital component which will address our future challenges in the job market. If we can achieve these goals, it will ensure our practically groomed UoL alumni to add place at various prestigious organizations. Here, I pray that we will be able to bring about state of excellence to our institution for our younger generation. May Almighty ALLAH provide us courage and guidance to make us successful all the way.

Dr. Ahsan Sattar Sheikh
PhD Molecular Biology, UoL

MISSION STATEMENT

The mission of the department is to raise the efficiency of our graduates through quality education and practical knowledge. In the Institute, the key performance indicators (KPIs) have been implemented to improve not only for faculty teaching abilities but also it is a vital component for students' capacity building and skills development to address future challenges in the job market. Some other reforms are implemented to enhance the value of our basic and applied research objectives by competitions and patent writing that would improve our outlook in the national and international forefronts. These steps will effectively increase our contribution to the national economy.

INTRODUCTION

The Institute of Molecular Biology and Biotechnology was established in the Year 2004. It offers under graduate and graduate degree programs in subjects of Biochemistry, Biotechnology, Bioinformatics, Botany, Forensic Sciences, Molecular Biology, Microbiology, Physiology, and Zoology. It is the first Institute of its kind in the private sector. The curricula for the degree programs are designed to prepare manpower needed for the economic development of the country. The Institute employs highly qualified faculty (mostly foreign trained) for the strict compliance to each discipline curriculum. The semiotic method is combined with interactive and innovative teaching methodologies that increases each student's learning process. The University has a focused approach to impart new revolutionary and novel technologies. Achieving these goals, both undergraduate and post-graduate scholars will bring closer to expertise in their desired fields of employment. The research degree programs often run by the department are based on recent undertaking and developments in various frontiers of knowledge. Some of the areas of research include: cell signaling in normal and in cancer cells, alternate remedies for the treatment of cancer (use of natural products, micro-RNAs, oncolytic viruses and others), recombinant DNA technologies (production of various enzymes), metabolic disorders, cancer markers, genetic disorders, agri-biotechnology, gene manipulation in plants, purification and characterization of proteins of economic importance for their structure and function, enzymology and many related problems in areas of molecular endocrinology, clinical biochemistry and medical microbiology. The cutting-edge technologies like nano-biotechnology, nano-medicine and CRISPR-Cas are also being employed to get the desirable goals. Special emphasis has been placed for MPhil and PhD programs in the field of Biochemistry, Microbiology and Physiology. These programs are especially designed for MBBS doctors that are offered by the Institute. These programs are conducted by many senior HEC approved PhD faculty of the Institute and Centre for Research in Molecular Medicine (CRiMM). These programs are approved by the Higher Education commission (HEC) and Pakistan Medical Commission (PMC).



SCAN THIS TO SEE
FACULTY LIST

Bachelor of Science in Biochemistry & Biotechnology



Program Duration: 4 Years

Timing: Morning (Monday–Friday)

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / Intermediate with Minimum 2nd Division.
- UOL Entry Test / Interview is mandatory

CAREER PROSPECTS

- Industries
- Health Organizations
- Research & Development (R&D)
- Education
- Agriculture

INTRODUCTION

The program after completion is equivalent to MSc since the degree is awarded on successful completion of 16 years of education after Higher Secondary School Education. The Degree program fulfills all the curriculum requirements for BS Degree recommended by Higher Education Commission consisting of compulsory, core and allied courses. The basic training of research work is also imparted.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program. 8 to 9 weeks (non credit) summer internships (1 to 2) are mandatory for the completion of the degree program.

ROAD MAP	TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 136		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Functional English	3	Communication Skill	3	Technical Writing & Presentation Skill	3	Enzymology	3
Mathematics	3	Pakistan Studies	3	Introduction to Biotechnology	3	Research Methodology	3
Introduction to Computer Science	3	Statistics	3	Biostatistics	3	Biosafety and Bioethics	2
General Chemistry	3	Organic Chemistry	3	Analytical Chemistry	3	Biomembranes and Cell Signaling	3
Islamic Studies/ Ethics	3	Sports Science	3	Metabolism I	3	Metabolism II	3
Introduction to Biochemistry	3	Chemistry of Biomolecules	3	Introduction to Cell Biology	3	Microbial Biochemistry and Biotechnology	4
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Biochemistry of Hormones	3	Biochemical Immunology	4	Biochemistry of Vitamins and Minerals	3	Industrial Enzymology	3
Introduction to Molecular Biology	3	Environmental Biochemistry	3	Biochemistry of Cancer	4	Bioinformatics and System Biology	3
Nutritional Biochemistry	3	General Physiology	3	Toxicology	3	Nanobiotechnology	3
Body Fluids and Functions	3	Clinical Biochemistry	3	Industrial Biochemistry	4	Review Report or Research Thesis	3
Plant Biochemistry	3	Techniques in Biochemistry	4	Review Report or Research Thesis	3		
Introduction to Genetics	3						



Bachelor of Science in Biotechnology



Program Duration: 4 Years
Timing: Morning (Monday–Friday)
Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / Intermediate with Minimum 2nd Division.
- UOL Entry Test / Interview is mandatory

Education Commission consisting of compulsory, core and allied courses. The basic training of research work is also imparted.

CAREER PROSPECTS

- Industries
- Health Organizations
- Research & Development (R&D)
- Education
- Agriculture

INTRODUCTION

The program after completion is equivalent to MSc since the degree is awarded on successful completion of 16 years of education after Higher Secondary School Education. The Degree program fulfils all the curriculum requirements for BS Degree recommended by Higher

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program. 8 to 9 weeks (non credit) summer internships (1 to 2) are mandatory for the completion of the degree program.

ROAD MAP	TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 136		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Functional English	3	Communication Skills	3	Technical Writing and Presentation Skill	3	Ecology, Biodiversity & Evolution II	3
Islamic Studies / Ethics	3	Introduction to Biotechnology	3	Cell Biology II	3	Fundamentals of Biotechnology	3
Organic Chemistry	3	Pakistan Studies	3	Metabolism I	4	Recombinant DNA Technology	3
Introduction to Biochemistry	3	Inorganic Chemistry	3	Introductory Genetics	3	Metabolism II	4
Mathematics	3	Statistics	3	Ecology, Biodiversity & Evolution I	3	Behavioral Studies	3
Introduction to Computer Science	3	Cell Biology I	3				
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Microbial Biotechnology	4	Principles of Biochemical Engineering	3	Agriculture Biotechnology	3	Pharmaceutical Biotechnology	3
Animal Biotechnology	3	Genetic Resources and Conservation	3	Industrial Biotechnology	3	Nanobiotechnology	3
Cell and Tissue Culture	4	Fermentation Biotechnology	3	Biotechnology and Entrepreneurship	3	Health Biotechnology	3
Genomics, Transcriptomics & Proteomics	3	Food Biotechnology	3	Research Methodology and Skill Enhancement	3	Biosafety and Bioethics of GMOs	3
Bioinformatics and System Biology	3	Plant Biotechnology	3	Biostatistics	3	Review Report or Research Thesis	3
		Environmental Biotechnology	3	Review Report or Research Thesis	3		

Bachelor of Science in Bioinformatics



Program Duration: 4 Years

Timing: Morning (Monday–Friday)

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School certificate or equivalent (2nd division with at least 50% marks) in pre-engineering / pre-medical / Intermediate in computer sciences / relevant subjects.
- UOL Entry Test / Interview is mandatory

CAREER PROSPECTS

At the completion of this program, students are expected to know the relationship between genes, proteins and use of computers in handling flood of biological data which started with the completion of Human Genome project. Bioinformatics is now an established discipline in the main stream of Biology and is a key to unlock the information coded in genome, transcriptome and proteome. Being a multidisciplinary field, it has diversified applications in domains like drug designing, agriculture biotechnology and system biology.

INTRODUCTION

To train the next generation professionals to gain advanced knowledge in Bioinformatics that is required to design and implement novel methods which can be useful to define and solve problems with emphasis on acquisition, representation, retrieval, visualization and analysis of biological data.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

8 to 9 weeks (non credit) summer internships (1 to 2) are mandatory for the completion of the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English-I (Functional English)	3	English-II (Communication skill)	3	English-III (Technical Writing & Presentation Skill)	3	English-IV	3
Mathematics-I	3	Pakistan Studies	3	Introduction to Computer Science	3	Research Methodology	3
Islamic Studies / Ethics	3	Introduction to Biochemistry	3	Introduction to Biotechnology	2	Bioinformatics-I	3
General Chemistry-I (General Chemistry)	3	Introduction to Computer Programming	3	Data Structure and Algorithms	4	Object Oriented Programming	4
Introduction to Molecular Biology	3	Molecular Genetics & Genetic Disorder	3	Introduction to Computing Applications	3	Sports Science	3
Introduction to Structure Biology	3	Mathematics-II/Calculus	3	Statistics-I (General Statistics)	3		
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Bioinformatics-II	4	Genomics & Proteomics	3	Advanced Bioinformatics	4	Protein Signaling and Gene Network	4
Statistics-II (Biostatistics)	3	Cell Biology-1	3	Bioinformatics Scripting	4	Bioinformatics & System Biology	3
Database Management Systems	3	Bioinformatics-III	4	Modeling and Simulations	4	Biotechnology applications	2
Discrete Structures	2	Social, Ethical and Legal Issues in Bioinformatics	2	Immunology	3	Review Report or Research Thesis	3
Information Modeling	3	Bioinformatics Software Development-I	3	Review Report or Research Thesis	3		
General Microbiology	3	Computer Graphics and Visualization	3				



Bachelor of Science in Botany



Program Duration: 4 Years

Timing: Morning (Monday–Friday)

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / Intermediate with Minimum 2nd Division.
- Those who have completed 14 Years of education (B.Sc) or equivalent, a fast track enrollment is allowed in the 5th semester along with 4 Years BS Botany Program. Deficiency courses may be offered to those who are in need of it
- **UOL Entry Test is mandatory**

INTRODUCTION

The program after completion is equivalent to MSc since the degree is awarded on successful completion of 16 years of education after Higher Secondary School Education. The Degree program fulfils all the curriculum requirements for BS Degree recommended by Higher Education Commission consisting of compulsory and core courses. The basic training of research work is also imparted.

CAREER PROSPECTS

- Industries
- Research & Development (R&D)
- Education
- Agriculture
- Food Organizations

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program. 8 to 9 weeks (non credit) summer internships (1 to 2) are mandatory for the completion of the degree program.

ROAD MAP		TOTAL SEMESTERS 08			TOTAL CREDIT HOURS 135		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English-I (Functional English)	3	Communication Skill	3	Technical Writing & Presentation Skill	3	Research Methodology	3
Islamic Studies / Ethics	3	Diversity of Plants	4	General Statistics	3	Introduction to Biotechnology	3
Mathematics-I	3	Organic Chemistry	3	Sports Science	3	Biostatistics	3
Pakistan Studies	3	Mathematics-II	3	Plant Systematics, Anatomy and Development/ Embryology	3	Cell Biology, Genetics and Evolution	4
General Chemistry	3	Animal Diversity-II (Chordates)	3	Analytical Chemistry	3	Biodiversity and Conservation	3
Animal Diversity-I (Invertebrates)	3			Economics	3		
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Introduction to Biochemistry	3	Mycology and Plant Pathology	3	Plant Biochemistry-I	3	Plant Biochemistry-II	3
Introduction to Computer Science	3	Diversity of Vascular Plants	3	Genetics-I	3	Genetics-II	3
Plant Physiology and Ecology	4	Plant Systematics	3	Molecular Biology	3	Plant Physiology-II	3
Bacteriology and Virology	3	Plant Anatomy	3	Plant Ecology-II	3	Elective-III (Review Report or Research Thesis)	3
Phycology and Bryology	3	Plant Physiology-I	3	Elective-I (Review Report or Research Thesis)	3	Elective-IV (Plant-Microbe Interactions)	3
		Plant Ecology-I	3	Elective-II (Phytohormones)	3		



Bachelor of Science in Microbiology & Biotechnology

Program Duration: 4 Years

Timing: Morning (Monday–Friday)

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / Intermediate with Minimum 2nd Division
- UOL Entry Test / Interview is mandatory

CAREER PROSPECTS

- Industries
- Health Organizations
- Diagnostics
- Research & Development (R&D)
- Education
- Agriculture

INTRODUCTION

The program after completion is equivalent to MSc since the degree is awarded on successful completion of 16 years of education after Higher Secondary School Education. The BS Degree program fulfills all the curriculum requirements of compulsory, core and allied courses as recommended by Higher Education Commission. The basic training of research work is also imparted familiarizing the students with techniques employed in the microbiology research laboratories.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program. 8 to 9 weeks (non credit) summer internships (1 to 2) are mandatory for the completion of the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Islamic Studies / Ethics	3	Pakistan Studies	3	Sports Science	3	Introduction to Biotechnology	3
Introduction to Computer Science	3	Communication Skills	3	Technical Writing and Presentation Skill	3	Molecular Biology II	4
Mathematics	3	Organic Chemistry	3	Research Methodology	3	General Mycology	3
Functional English	3	Biostatistics	3	Introductory Genetics	3	Microbial Biochemistry	3
General Chemistry	3	Molecular Biology I	3	General Microbiology	3	Microbial Genetics	3
Statistics	3	Introduction to Cell Biology	3	General Bacteriology	3	Microbial Taxonomy	2
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Medical Microbiology	3	Food Microbiology	3	Applied Microbiology	3	Bioinformatics and System Biology	3
Microbial Physiology	3	Industrial Microbiology	3	Recent Advances in Microbiology	3	Cell & Tissue Culture	3
General Virology	3	Environmental Microbiology	3	Techniques in Microbiology	3	General Parasitology	3
Immunology	4	Microbial Biotechnology & Vaccinology	3	Antimicrobial Drugs Resistance	3	Review Report or Research Thesis	3
Epidemiology and Surveillance	4	Biosafety and Bioethics	2	Genetic Engineering	3		
		Recombinant DNA Technology	3	Review Report or Research Thesis	3		



Bachelor of Science in Molecular Biology & Biotechnology



Program Duration: 4 Years
Timing: Morning (Monday–Friday)
Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate/ Intermediate with Minimum 2nd Division.
- UOL Entry Test / Interview is mandatory

CAREER PROSPECTS

- Industries
- Health Organizations
- Research & Development (R&D)
- Education
- Agriculture

INTRODUCTION

The program after completion is equivalent to MSc since the degree is awarded on successful completion of 16 years of education after Higher Secondary School Education. The Degree program fulfills all the curriculum requirements for BS Degree recommended by Higher Education Commission consisting of compulsory, core and allied courses. The basic training of research work is also imparted.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program. 8 to 9 weeks (non credit) summer internships (1 to 2) are mandatory for the completion of the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
General Chemistry	3	Introduction to Biochemistry	3	Cell Biology II	4	Metabolism I	3
Introductory Genetics	3	Molecular Biology I	3	Molecular Biology II	4	Biostatistics	3
Functional English	3	Cell Biology I	3	General Physiology	3	Research Methodology	3
Mathematics	3	Statistics	3	Technical Writing & Presentation Skills	3	Introduction to Biotechnology	3
Islamic Studies/ Ethics	3	Communication Skills	3	Introduction to Computer Science	3	Molecular Genetics & Genetic Disorders	3
General Microbiology	3	Pakistan Studies	3			Sports Science	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Enzymology	3	Microbial Biotechnology & Vaccinology	3	Genomics, Transcriptomics & Proteomics	3	Cell and Tissue Culture	3
Metabolism II	3	General Virology	3	Epigenetics	3	Nano-Biotechnology	3
General Bacteriology	3	Plant Biotechnology	3	Techniques in Molecular Biology	3	Bioinformatics and System Biology	3
Immunology	4	Introduction to Cell Signaling	3	Biosafety & Bioethics	2	Review Report or Research Thesis	3
Recombinant DNA Technology	4	Biochemistry of Cancer	4	Stem Cell and Gene Therapy	3	Biotechnology and Entrepreneurship	3
				Review Report or Research Thesis	.3		

Bachelor of Science in Zoology



Program Duration: 4 Years

Timing: Morning (Monday–Friday)

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / Intermediate with Minimum 2nd Division.
- 16 Years BS Zoology:
- Those who have completed 14 Years of education (B.Sc) or equivalent, a fast track enrollment is allowed in the 5th semester along with 4 Years BS Zoology Program. Deficiency courses may be offered to those who are in need of it
- UOL Entry Test is mandatory.

Higher Secondary School Education. The Degree program fulfils all the curriculum requirements for BS Degree recommended by Higher Education Commission consisting of compulsory and core courses. The basic training of research work is also imparted.

CAREER PROSPECTS

- Wild Life
- Fisheries
- Industries
- Health Organizations
- Research & Development (R&D)
- Education
- Agriculture

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program. 8 to 9 weeks (non credit) summer internships (1 to 2) are mandatory for the completion of the degree program.

INTRODUCTION

The program after completion is equivalent to MSc since the degree is awarded on successful completion of 16 years of education after

ROAD MAP		TOTAL SEMESTERS 08			TOTAL CREDIT HOURS 136		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Functional English	3	Technical Writing & Presentation Skill	3	Research Methodology	3	Animal Diversity-II (Chordates)	4
General Chemistry	3	Organic Chemistry	3	Animal Diversity-I (Invertebrates)	4	Plant Systematics, Anatomy and Development/Embryology	3
Economics	3	Biostatistics	3	Diversity of Plants	3	Animal Form & Function-II	4
Mathematics	3	Introduction to Computer Science	3	Animal Form & Function-I	4	Zoogeography & Paleontology	3
Museology (Museum Science)	3	Photography	3	Animal Behavior	3	Cell Biology	3
Islamic Studies / Ethics	3	Pakistan Studies	3				
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Sericulture	2	Biochemistry-II	3	General Microbiology	3	General and Comparative Endocrinology	3
Biological Techniques	3	Economic Zoology	3	Entomology (Morphology, Physiology and Ecology)	3	Introduction to Biotechnology	3
Biochemistry-I	3	Molecular Biology	3	Ecology	3	Principles of Fish Biology	3
Physiology	4	Developmental Biology	4	Bioinformatics & System Biology	3	Immunology	3
Evolution	2	Genetics	4	Wildlife	3	Review Report or Research Thesis	3
Principles of Systematics	2			Review Report or Research Thesis	3		



Bachelor of Science in Industrial Biochemistry



Program Duration: 4 Years

Timing: Morning (Monday–Friday)

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate, F.Sc Pre-Medical.

INTRODUCTION

The B.Sc. In Industrial Biochemistry is a degree programme. It focuses upon the study of living cells (or components of living cells) and the medical/industrial applications of such substances. It is designed to prepare you for a career in the Industrial Biochemistry sector and allied industries and has a very strong employment record. Examples of

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program. 8 to 9 weeks (non credit) summer internships (1 to 2) are mandatory for the completion of the degree program.

traditional Biochemical processes include the use of microorganisms to produce alcohol or antibiotics. Examples of more modern Biochemistry application processes include the use of genetic engineering to produce protein-based drugs or “Biopharmaceuticals” (e.g. Insulins or Interferons), engineered plants, which are drought or pesticide resistant or transgenic animals displaying some novel characteristic, such as faster growth.

CAREER PROSPECTS

At the Industrial stage, Biochemistry helps create alternative supply sources by transforming raw material.

- Pharmaceutical Industry: phytochemistry and antimycotic agents analytical sector
- Biosensors, spot-tests for medical applications.
- Polymers: biopolymer production for medical and food applications.

ROAD MAP		TOTAL SEMESTERS 08			TOTAL CREDIT HOURS 136		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Functional English	3	Communication Skill	3	Technical Writing and Presentation Skill	3	Research Methodology	3
Mathematics	3	Biostatistics	3	Pakistan Studies	3	Biocatalysts	3
Introduction to Computer Science	3	Islamic Studies/ Ethics	3	Introduction to Cell Biology	3	Introduction to Pharmacology	3
General Chemistry	3	Organic Chemistry	3	Introduction to Molecular Biology	3	Microbial Biochemistry	3
Statistics	3	Sports Science	3	Analytical Chemistry	3	Biomaterials	3
Introduction to Biochemistry	3	Introduction to Industrial Biochemistry	3	Chemistry of Biomolecules	3	Introduction to Quality Management	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Industrial Enzymology	3	Nanobiotechnology	3	Biopharmaceuticals Industry	3	Cooperative Education	6
Tissue Engineering	3	Functional Food and Nutraceuticals	3	Vaccine Production	3	Semester+ Summer (Minimum 6 month) Student can choose any of the following industry for cooperative Education. 1. Pharmaceutical Industry 2. Leather Industry etc	
Nutritional Biochemistry	3	Molecular Diagnostic Techniques	3	Techniques in Biochemistry	4		
Bioprocess Engineering	3	Toxicology	3	Bioinformatics and System Biology	3	Occupational Safety and Health	3
Introduction to Biotechnology	3	Industrial Microbiology	3	Review Report or Research Thesis	3	Review Report or Research Thesis	3
Introduction to Genetics	3	Genetic Engineering	3				

Bachelor of Science in Industrial Biotechnology



Program Duration: 4 Years

Timing: Morning (Monday–Friday)

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate/ F.Sc (Pre-Medical) with Minimum 2nd Division.
- UOL Entry Test / Interview is mandatory

INTRODUCTION

1. The Industrial Biotechnology program is to impart the required knowledge to the candidates and to make sure that the candidate gets well versed in the:
 - Chemical Reaction Engineering
 - Profession Ethics
 - Downstream Processing
 - Immunology Lab
 - Analytical Techniques in Biotechnology
 - Bioinformatics
2. This course curriculum studies the different methods that are used for producing and processing the different materials, bioenergy, and also the other value added products.
3. The students also learn how to use the micro-organisms or the enzymes that are required for manufacturing the products. The experts come up with the ideas and give candidates the ideas that are used for manufacturing products by using less energy, reducing the waste and also ensuring that the final product has come out.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program. 8 to 9 weeks (non credit) summer internships (1 to 2) are mandatory for the completion of the degree program.



CAREER PROSPECTS

Student will be able to:

1. Perform analytical analysis of various technological processes, plan and conduct experimental research, analyze and assess experiment's results.
2. Select suitable technological parameters, apply computer modeling in biotechnological processes
3. Work with biotechnological equipment and devices used in production of bio products
4. Apply assessment instruments for financial efficiency of technological development projects.
5. Understand how bacteria and other microbes can be manipulated by recombinant DNA technology or selective isolation for use industrial processes to generate products of interest.
6. Be familiar with fermentation technology and the issues surrounding industrial scale up.
7. Understand how plants can be used to bioremediate environments and produce high value chemicals.
8. Know how animal cells can be used as vehicles for production of products of interest for industry and medicine.
9. Understand the principle of Intellectual Property in the context of Industrial Biotechnology
10. Understand through case studies, how some biotechnology industries have developed and the nature of their business models.



ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Functional English	3	Communication Skills	3	Technical Writing and Presentation Skill	3	Industrial Biotechnology	3
Mathematics	3	Islamic Studies / Ethics	3	Pakistan Studies	3	Chemistry of Biomolecules	3
Introduction to Computer Science	3	Statistics	3	Analytical Chemistry	3	Recombinant DNA Technology	3
General Chemistry	3	Organic Chemistry	3	Enzymology	3	Techniques in Molecular Biology	3
Introduction to Biochemistry	3	Molecular Biology I	3	Molecular Biology II	3	Behavioral Studies	3
Introduction to Biotechnology	3	General Microbiology	3	Bioinformatics and System Biology	3	Biostatistics	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Principles of Biochemical Engineering	3	Pharmaceutical Biotechnology	3	Food Biotechnology	3	Biofuel Technology	3
Fundamentals of Biotechnology Process Design	4	Nanobiotechnology	3	Environmental Biotechnology	3	Internship Duration (Minimum 9 weeks) Student can choose any of the following industry for internship. 1. Food Industry 2. Beverage Industry 3. Pharmaceutical Industry 4. Leather Industry 5. Agriculture	
Cell and Tissue Culture	4	Microbial Biotechnology	4	Research Methodology and Skill Enhancement	3		
Polymer Chemistry and Biotechnology	4	Fungal Biotechnology	3	Water and Waste Water Treatment	3	Biosensors	3
Instrumental Analysis	3	Fermentation Biotechnology	3	Biotechnology and Entrepreneurship	3	Biosafety and Bioethics of GMOs	3
				Review Report or Research Thesis	3	Review Report or Research Thesis	3



Master of Philosophy in Biochemistry



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission,

Entry Requirements

- 16/17 Years of Education, 5/4 Years degree (MBBS, BDS, Pharm.D, BSN, DPT, DDNS, DMLS, MID, DOVS, DVM) or 16 Years of Education, MSc 2 Years, BS 4 Years degree (Biology, Microbiology, Zoology, Physiology, Biochemistry, Human Nutrition, Biotechnology or equivalent) from HEC recognized University with Minimum 2.5/4.0 CGPA.
- UOL Entry Test / Interview is mandatory

ELECTIVES

- Advanced Biochemistry
- Recent Trends in Immunology
- Advanced Heterocyclic Compounds (EC)
- Advanced Clinical Biochemistry
- Techniques in Biochemistry
- Advanced Toxicology (EC)
- Biochemistry of Cell Signal & Signal Transduction (EC)
- Metabolic Pathway
- Cancer Biology
- Research Thesis

INTRODUCTION

The program of study is awarded on the successful completion of 18 years of education after the award of BS degree of 4 years duration or MSc degree of 2 years duration. The Degree program fulfils all the curriculum requirements for MPhil Degree programs as recommended by Higher Education Commission, consisting of compulsory, core and allied courses. They are further required to conduct research and complete remaining 12 credit hours in next 2 semesters. The GAT- General (www.nts.org.pk/gat/gat.asp) conducted by National Testing Service (NTS) will be required at the time of admission to MPhil / MS. Admission test will be held by the Institute.

CAREER PROSPECTS

- Industries
- Agriculture
- Education
- Research & Development (R&D)
- Health Organizations



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program. Internship for 2 months is mandatory.

ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Advanced Biochemistry	3	Elective III: (e.g. Metabolic Pathway)	3	Research Thesis	6	Research Thesis	6
Recent Trends in Immunology	3	Elective IV (e.g. Techniques in Biochemistry)	3				
Elective I (e.g. Nutritional Biochemistry)	3	Advanced Biostatistics and Computing	3				
Elective II (e.g. Advanced Clinical Biochemistry)	3	Bioinformatics	3				



Master of Philosophy in Biotechnology



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission,

Entry Requirements

- 16/17 Years of Education, 5/4 Years degree (MBBS, BDS, Pharm.D, BSN, DPT, DDNS, DMLS, MID, DOVS, DVM) or 16 Years of Education, MSc 2 Years, BS 4 Years degree (Biology, Microbiology, Zoology, Physiology, Biochemistry, Human Nutrition, Biotechnology or equivalent) from HEC recognized University with Minimum 2.5/4.0 CGPA.
- UOL Entry Test / Interview is mandatory

INTRODUCTION

The program of study is equivalent to M.Phil since the degree is awarded on the successful completion of 16 years of education after the award of BS degree of 4 years duration or MSc degree of 2 years duration. The Degree program fulfils all the curriculum requirements for MPhil Degree programs as recommended by Higher Education Commission, consisting of compulsory, core and allied courses. They are further required to conduct research and complete remaining 12 credit hours in next 2 semesters. The GAT- General (www.nts.org.pk/gat/gat.asp) conducted by National Testing Service (NTS) will be required at the time of admission to MPhil / MS. Admission test will be held by the Institute..

CAREER PROSPECTS

- Industries
- Agriculture
- Education
- Research & Development (R&D)
- Health Organizations

ELECTIVES

- Principles of Biotechnology
- Advanced rDNA Technology
- Cell & Tissue Culture (EC)
- Health Biotechnology
- Molecular Basis of Plant Development (EC)
- Techniques in Biotechnology
- Transgenic Organisms (EC)
- Bioinformatics
- Research Thesis



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.
Internship for 2 months is mandatory.

ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Principles of Biotechnology	3	Techniques in Biotechnology	3	Research Thesis	6	Research Thesis	6
Advanced rDNA Technology	3	Elective II: (e.g. Transgenic Organisms)	3				
Elective I: (e.g. Cell & Tissue Culture)	3	Elective III: (e.g. Molecular Basis of Plant Development)	3				
Health Biotechnology	3	Advanced Biostatistics& Computing	3				



Master of Philosophy in Botany

Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, BS 4 Years, MSc 2 Years Botany from HEC recognized university with Minimum 2.5/4.0 CGPA in semester system or 2nd Division in annual system.
- UOL Entry Test / Interview is mandatory

INTRODUCTION

The program of study is equivalent to M.Phil since the degree is awarded on successful completion of 16 years of education after the award of BS degree of 4 years duration or MSc degree of 2 years duration. The Degree program fulfils all the curriculum requirements for MPhil Degree programs as recommended by Higher Education Commission, consisting of compulsory, core and allied courses. They are further required to conduct research and complete remaining 12 credit hours in next 2 semesters. The GAT- General (www.nts.org.pk/gat/gat.asp) conducted by National Testing Service (NTS) will be required at the time of admission to MPhil / MS. Admission test will be held by the Institute.

CAREER PROSPECTS

- Agriculture
- Industries
- Education
- Research & Development (R&D)

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.
Internship for 2 months is mandatory.

ELECTIVES

- Advanced Analytical Techniques
- Advanced Plant Physiology
- Plant Growth and Development
- Plant Breeding
- Insect-Plant Interactions
- Advanced Recombinant DNA Technology
- Plant-Environment Interactions
- Plant Cellular Signaling
- Biodiversity and Conservation
- Nitrogen Biological Fixation
- Agrostology
- Advanced Biostatistics & Computing
- Experimental Design
- Plants Stress Biology



ROAD MAP		TOTAL SEMESTERS 04		TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3 & 4	CR. HR.
Advanced Biostatistics & Computing	3	Advanced Analytical Techniques	3	Research Thesis	12
Advanced Recombinant DNA Technology	3	Advanced Plant Physiology	3		
Elective I	3	Elective III	3		
Elective II	3	Elective IV	3		





Master of Philosophy in Bioinformatics

Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, BS 4 Years, Bioinformatics from HEC recognized university with Minimum 2.5/4.0 CGPA in semester system or 2nd Division in annual system.
- UOL Entry Test / Interview is mandatory

CAREER PROSPECTS

At the completion of this program, students are expected to know the relationship between genes, proteins and use of computers in handling flood of biological data which started with the completion of Human Genome project. Bioinformatics is now an established discipline in the main stream of Biology and is a key to unlock the information coded in genome, transcriptome and proteome. Being a multidisciplinary field, it has diversified applications in domains like drug designing, agriculture biotechnology and system biology.

INTRODUCTION

To train the next generation professionals to gain advanced knowledge in Bioinformatics that is required to design and implement novel methods which can be useful to define and solve problems with emphasis on acquisition, representation, retrieval, visualization and analysis of biological data.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.



ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Advances in Molecular Biology	3	Statistical Methods for Computational Biology	3	Research Thesis	6	Research Thesis	6
Advances in Bioinformatics	3	Computational Biology for Drug Designing	3				
Artificial Intelligence	3	Advances in Genomics and Proteomics	3				
Advances in Computational Algorithms	3	Systems Biology	3				



Master of Philosophy in Forensic Sciences

Program Duration: 2 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission,

Entry Requirements

- 16/17 Years of Education, 5/4 Years degree (MBBS, BDS, Pharm.D, BSN, DPT, DDNS, DMLS, MID, DOVS, DVM) or 16 Years of Education, MSc 2 Years, BS 4 Years degree (Biology, Microbiology, Zoology, Physiology, Biochemistry, Human Nutrition, Biotechnology) or 16 Years of Education, BS 4 Years degree (Sociology, Clinical Psychology, Anthropology, Population Sciences, Administrative Sciences, Mass Communication, BA LLB & Biostatistics or equivalent from HEC recognized University with Minimum 2.5/4.0 CGPA.
- UOL Entry Test / Interview is mandatory.

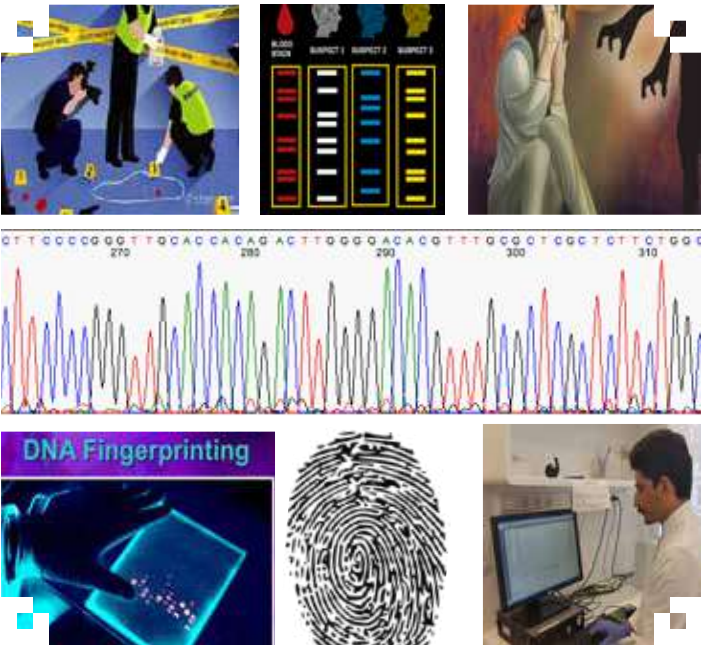
INTRODUCTION

The program of study is equivalent to M.Phil/MS. Students who have completed 16 years of education at BS or MSc level are eligible for admission to MPhil degree program. The Degree program fulfills all the curricular requirements as set out by the Higher Education Commission, consisting of compulsory. They are further required to conduct research and complete remaining 12 credit hours in next 2 semesters. All students are required to pass GAT examination conducted by the National Testing Service (NTS). Admission test is held by the Institute.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.
Internship for 2 months is mandatory.

CAREER PROSPECTS

The MPhil in forensic sciences will train graduates to think strategically and critically about crime and forensic science. The skills suitable for a wide range of careers will be transferred to our graduates. It is a new multidisciplinary program with modules provided by Institute of Molecular Biology and Biotechnology including crime science, forensic drug chemistry, computer science, biosciences, statistics, anthropology and laws and psychology behind decision making.



ROAD MAP		TOTAL SEMESTERS 04			TOTAL CREDIT HOURS 36		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3&4	CR. HR.
Basics of Biological Evidence	3	Criminalistics and Introduction to Forensics	3	Forensic Question Document Analysis	2	Research Thesis	12
Firearms and Tool Marks Analysis	3	Quality Assurance Standards in Forensic Laboratory	3				
Elective-I: (e.g. Latent Fingerprint Analysis)	3	Elective-III: (e.g. Witness and Testimony in Courts)	2				
Elective-II: (e.g.Forensic Analytical Toxicology)	3	Elective-IV: (e.g. Population Genetics and Statistics)	2				



Master of Philosophy in Microbiology



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16/17 Years of Education, 5/4 Years degree (MBBS, BDS, Pharm.D, BSN, DPT, DDNS, DMLS, MID, DOVS, DVM) or 16 Years of Education, MSc 2 Years, BS 4 Years degree (Biology, Microbiology, Zoology, Physiology, Biochemistry, Human Nutrition, Biotechnology or equivalent) from HEC recognized University with a Minimum 2.5/4.0 CGPA.
- UOL Entry Test / Interview is mandatory

INTRODUCTION

The program of study is equivalent to M.Phil since the degree is awarded on successful completion of 16 years of education after the award of BS degree of 4 years duration or MSc degree of 2 years duration. The M.Phil Degree program consisting of compulsory, core and allied courses fulfills all the curriculum requirements for M.Phil Degree programs as recommended by Higher Education Commission. They are further required to conduct research and complete remaining 12 credit hours in next 2 semesters. The GAT- General (www.nts.org.pk/gat/gat.asp) conducted by National Testing Service (NTS) will be required at the time of admission to M.Phil / MS. Admission test will be held by the Institute.

CAREER PROSPECTS

- Diagnostics (R&D)
- Industries
- Agriculture
- Education
- Research & Development
- Health Organizations

ELECTIVES

- Advanced Microbiology
- Microbial Genetics and Diseases
- Medical Microbiology (EC)
- Microbial Biochemistry and Physiology
- Techniques in Microbiology
- Food Microbiology (EC)
- Advanced Virology (EC)
- Research Thesis



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

Internship for 2 months is mandatory.

ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Advance Microbiology	3	Advanced Virology	3	Research Thesis	6	Research Thesis	6
Microbial Genetics and Diseases	3	Microbial Biochemistry & Physiology	3				
Elective I: (e.g. Medical Microbiology)	3	Elective II: (e.g. Food Microbiology)	3				
Techniques in Microbiology	3	Microbial Biotechnology and Vaccinology	3				



Master of Philosophy in Molecular Biology

Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16/17 Years of Education, 5/4 Years degree (MBBS, BDS, Pharm.D, BSN, DPT, DDNS, DMLS, MID, DOVS, DVM) or 16 Years of Education, MSc 2 Years, BS 4 Years degree (Biology, Microbiology, Zoology, Physiology, Biochemistry, Human Nutrition, Biotechnology or equivalent) from HEC recognized University with Minimum 2.5/4.0 CGPA.
- UOL Entry Test / Interview is mandatory

INTRODUCTION

The program of study is equivalent to M.Phil since the degree is awarded on successful completion of 18 years of education after the award of BS degree of 4 years duration or MSc degree of 2 years duration. The Degree program fulfils all the curriculum requirements for M.Phil Degree programs as recommended by Higher Education Commission, consisting of compulsory, core and allied courses. The students are further required to conduct research and complete remaining 12 credit hours in next 2 semesters. The GAT- General (www.nts.org.pk/gat/gat.asp) conducted by National Testing Service (NTS) will be required at the time of admission to M.Phil / MS. Admission test will be held by the Institute.

CAREER PROSPECTS

- Diagnostics (R&D)
- Industries
- Agriculture
- Education
- Research & Development
- Health Organizations

ELECTIVES

- Advanced Molecular Biology
- Advanced Recombinant DNA Technology
- Molecular Genetics & Genetic Disorders
- Recent Trends in Immunology
- Techniques in Molecular Biology
- Genomics, Transcriptomics & Proteomics
- Cell Signaling & Signal Transduction
- Applications of Stem Cells
- Research Thesis



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.
Internship for 2 months is mandatory.

ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Advanced Recombinant DNA Technology	3	Advanced Molecular Biology	3	Research Thesis	6	Research Thesis	6
Techniques in Molecular Biology	3	Advanced Biostatistics & Computing	3				
Elective I: (e.g. Molecular Genetics & Genetic Disorders)	3	Elective III: (e.g. Genomics, Transcriptomics & Proteomics)	3				
Elective II: (e.g. Cell Signaling & Signal Transduction)	3	Elective IV: (e.g. Applications of Stem Cells)	3				



Master of Philosophy in Physiology



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

16/17 Years of Education, 5/4 Years degree (MBBS, BDS, Pharm.D, BSN, DPT, DDNS, DMLS, MID, DOVS, DVM) or 16 Years of Education, MSc 2 Years, BS 4 Years degree (Biology, Microbiology, Zoology, Physiology, Biochemistry, Human Nutrition, Biotechnology or equivalent) from HEC recognized University with Minimum 2.5/4.0 CGPA.

UOL Entry Test / Interview is mandatory

INTRODUCTION

The program of study is equivalent to M.Phil since the degree is awarded on successful completion of 16 years of education after the award of BS degree of 4 years duration or MSc degree of 2 years duration. The degree program fulfils all the curriculum requirements for M.Phil degree programs as recommended by Higher Education Commission, consisting of compulsory, core and allied courses. They are further required to conduct research and complete remaining 12 credit hours in next 2 semesters. The GAT- General (www.nts.org.pk/gat/gat.asp) conducted by National Testing Service (NTS) will be required at the time of admission to M.Phil / MS. Admission test will be held by the Institute.

CAREER PROSPECTS

- Industries (R&D)
- Education
- Health Organizations
- Research & Development

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program. Internship for 2 months is mandatory.

ELECTIVES

- Cell and Molecular Physiology
- Physiology of Reproduction
- Cell Signaling & Signal Transduction
- Cell, General Physiology and Integration
- Gastrointestinal Physiology
- Advanced Physiology
- Medical Teaching
- Techniques in Physiology
- Recent Trends in Neuroscience
- Nutritional Biochemistry
- Cancer Biology
- Cell & Tissue Culture
- Forensic Sciences
- Research Methodology and Biostatistics
- Respiratory and Renal Physiology



ROAD MAP		TOTAL SEMESTERS 04		TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.
Advances in Endocrinology	3	Cell & Molecular Physiology	3	Research Thesis	6
Research Methodology and Biostatistics	3	Advances in Neurophysiology	3	Research Thesis	6
Elective I	3	Elective III	3		
Elective II	3	Elective iv	3		



Master of Philosophy in Zoology

Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, BS 4 Years, MSc 2 Years Zoology from HEC recognized university with Minimum 2.5/4.0 CGPA in semester system or 2nd Division in annual system.
- UOL Entry Test / Interview is mandatory

INTRODUCTION

The program of study is equivalent to M.Phil since the degree is awarded on successful completion of 16 years of education after the award of BS degree of 4 years duration or MSc degree of 2 years duration. The Degree program fulfils all the curriculum requirements for M.Phil Degree programs as recommended by Higher Education Commission, consisting of compulsory, core and allied courses. They are further required to conduct research and complete remaining 12 credit hours in next 2 semesters. The GAT- General (www.nts.org.pk/gat/gat.asp) conducted by National Testing Service (NTS) will be required at the time of admission to M.Phil / MS. Admission test will be held by the Institute.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.
Internship for 2 months is mandatory.

CAREER PROSPECTS

- Wild Life
- Fisheries
- Industries
- Agriculture
- Education
- Research & Development (R&D)
- Health Organizations
- Live Stock



ROAD MAP

TOTAL SEMESTERS 04

TOTAL CREDIT HOURS 36

SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Advanced Biostatistics & Computing	3	Advanced Analytical Techniques	3	Research Thesis	6	Research Thesis	6
Medical Parasitology	3	Applied Microbiology	3				
Molecular Physiology	3	Advanced Mammalogy	3				
Advances in Wildlife	3	Aqua Culture and Fisheries	3				



Doctor of Philosophy in Biochemistry



Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 18 Years of Education, MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- UOL Entry Test / Interview is mandatory

INTRODUCTION

Ph.D program has been organized in accordance with the guidelines provided by the Higher education Commission (HEC). Those who have completed 16/18 years of education are eligible for admission to the program. The program in the subject of Biochemistry, Physiology and Microbiology are approved by the Pakistan Medical Commission (PMC).

CAREER PROSPECTS

- Industries
- Diagnostics
- Agriculture
- Education
- Research & Development (R&D)
- Health Organizations

ELECTIVES

- Advanced Clinical Biochemistry
- Advanced Heterocyclic Compounds
- Nutritional Biochemistry
- Advances in Enzymology
- Advanced Toxicology
- Natural Products: Extraction & Analysis
- Advances in Endocrinology
- Bioinformatics
- Cancer Biology
- Physiology of Reproduction
- Advanced Neurophysiology
- Recent Trends in Neuroscience
- Medical Microbiology
- Food Microbiology
- Advanced Virology
- Microbial Biotechnology & Vaccinology
- Advanced Environmental Microbiology
- Molecular Genetics and Genetic Disorders
- Genomics, Transcriptomics & Proteomics
- Cell Signaling & Signal Transduction
- Advanced Epigenetics
- Development Biology
- Forensic Sciences
- Molecular Basis of Cancer
- Cell and Tissue Culture
- Applications of Biotechnology
- Advanced Techniques in Biotechnology
- Advances in Plant Biotechnology
- GM Technology and Environmental Management
- Biotechnology of Renewable Resources
- Molecular Immunology



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Core Course	3	Core Course	3	Elective Course	3	Elective Course	3	Research Thesis	30
Core Course	3	Core Course	3	Elective Course	3	Elective Course	3		
Elective Course	3	Elective Course	3	Elective Course	3	Elective Course	3		
Elective Course	3	Elective Course	3	Elective Course	3	Elective Course	3		



Doctor of Philosophy in Biotechnology

Program Duration: 3 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 18 Years of Education, MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- UOL Entry Test / Interview is mandatory

ELECTIVES

- Health Biotechnology
- Molecular Basis of Plant Development
- Techniques in Biotechnology
- The Molecular Basis of Cancer
- Advanced Biostatistics & Computing
- Advances in Plant Biotechnology
- Applications of Stem Cells
- Molecular Genetics & Genetic Disorders
- Cell signaling & Signal Transduction
- Advanced Techniques in Biotechnology
- GM Technology and Environmental Management
- Biotechnology of Renewable Resources

INTRODUCTION

Ph.D program has been organized in accordance with the guidelines provided by the Higher education Commission (HEC). Those who have completed 16/18 years of education are eligible for admission to the program.

CAREER PROSPECTS

- Industries
- Agriculture
- Education
- Research & Development (R&D)
- Health Organizations



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Core Course	3	Core Course	3	Elective Course	3	Elective Course	3	Research Thesis	30
Core Course	3	Core Course	3	Elective Course	3	Elective Course	3		
Elective Course	3	Elective Course	3	Elective Course	3	Elective Course	3		
Elective Course	3	Elective Course	3	Elective Course	3	Elective Course	3		





Doctor of Philosophy in Botany

Program Duration: 3 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 18 Years of Education, MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- UOL Entry Test / Interview is mandatory

ELECTIVES

- Advances in Plant Biotechnology
- Ethnobotany and Medicinal Plants
- Seminar I
- Seminar II (Synopsis Defense)
- Special Problem
- Thesis
- Select two courses from the followings
- Phytoremediation
- Soil Plant Relationship
- Bioinformatics and Plant Genomics
- Forensic Botany
- Phytonanotechnology
- Invasion Biology
- Methods in Plant Cell Tissue and Organ Culture
- Bioenergetics
- Advanced Biostatistics & Computing
- Experimental Design

INTRODUCTION

Ph.D program has been organized in accordance with the guidelines provided by the Higher education Commission (HEC). Those who have completed 16/18 years of education are eligible for admission to the program.

CAREER PROSPECTS

- Industries
- Agriculture
- Education
- Research & Development (R&D)
- Health Organizations



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Core Course	3	Core Course	3	Elective Course	3	Elective Course	3	Research Thesis	30
Core Course	3	Core Course	3	Elective Course	3	Elective Course	3		
Elective Course	3	Elective Course	3	Elective Course	3	Elective Course	3		
Elective Course	3	Elective Course	3	Elective Course	3	Elective Course	3		



Doctor of Philosophy in Microbiology

Program Duration: 3 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 18 Years of Education, MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- UOL Entry Test / Interview is mandatory

INTRODUCTION

Ph.D program has been organized in accordance with the guidelines provided by the Higher education Commission (HEC). Those who have completed 16/18 years of education are eligible for admission to the program. The program in the subject of Biochemistry, Physiology and Microbiology are approved by the Pakistan Medical Commission (PMC).

CAREER PROSPECTS

- Industries
- Diagnostics
- Agriculture
- Education
- Research & Development (R&D)
- Health Organizations

ELECTIVES

- Advance Microbiology
- Microbial Genetics and Diseases
- Medical Microbiology
- Microbial Biochemistry and Physiology
- Techniques in Microbiology
- Food Microbiology
- Advanced Virology
- Molecular Immunology
- Recent Trends in Immunology
- Advanced Environmental Microbiology
- Techniques in Biotechnology
- Health Biotechnology
- Applied Nanotechnology
- Clinical Parasitology
- Antimicrobial Agents and Chemotherapy
- Applied Microbiology
- Medical Parasitology
- Research Reading-I in Microbiology
- Research Reading-II in Microbiology



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Core Course	3	Core Course	3	Elective Course	3	Elective Course	3	Research Thesis	30
Core Course	3	Core Course	3	Elective Course	3	Elective Course	3		
Elective Course	3	Elective Course	3	Elective Course	3	Elective Course	3		
Elective Course	3	Elective Course	3	Elective Course	3	Elective Course	3		



Doctor of Philosophy in Molecular Biology

Program Duration: 3 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 18 Years of Education, MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- UOL Entry Test / Interview is mandatory

INTRODUCTION

Ph.D program has been organized in accordance with the guidelines provided by the Higher education Commission (HEC). Those who have completed 16/18 Years of education are eligible for admission to the program. The program in the subject of Biochemistry, Physiology and Microbiology are approved by the Pakistan Medical Commission (PMC).

CAREER PROSPECTS

- Industries
- Diagnostics
- Agriculture
- Education
- Research & Development (R&D)
- Health Organizations

ELECTIVES

- Molecular Genetics & Genetic Disorders
- Genomics, Transcriptomics & Proteomics
- Cell Signalling & Signal Transduction
- Applications of Stem Cells
- Advanced Epigenetics
- Cancer Biology
- Developmental Biology
- Cell & Tissue Culture
- Transgenic Organisms
- Health Biotechnology
- Molecular Basis of Plant Development
- Recent Trends in Immunology
- Advanced Toxicology
- GM Technology and Environmental Management
- Natural Products 3: Extraction & Analysis
- Microbial Biotechnology & Vaccinology
- Microbial Genetics and Diseases
- Advanced Analytical Techniques
- Cell and Molecular Physiology
- Recent Trends in Neuroscience
- Advanced Virology
- Forensic Sciences
- Thesis



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Core Course	3	Core Course	3	Elective Course	3	Elective Course	3	Research Thesis	30
Core Course	3	Core Course	3	Elective Course	3	Elective Course	3		
Elective Course	3	Elective Course	3	Elective Course	3	Elective Course	3		
Elective Course	3	Elective Course	3	Elective Course	3	Elective Course	3		



Doctor of Philosophy in Physiology

Program Duration: 3 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 18 Years of Education, MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- UOL Entry Test / Interview is mandatory

ELECTIVES

- Research Thesis
- Cell and Molecular Physiology
- Cell, General Physiology and Integration
- Gastrointestinal Physiology
- Advanced Physiology
- Medical Teaching
- Techniques in Physiology
- Recent Trends in Neuroscience
- Nutritional Biochemistry
- Cancer Biology
- Cell & Tissue Culture
- Respiratory and Renal Physiology
- Physiology of Reproduction
- Cell Signalling & Signal Transduction
- Physiology of Sports and Exercise
- Nutritional Biochemistry
- Cancer Biology
- Research Thesis

INTRODUCTION

Ph.D program has been organized in accordance with the guidelines provided by the Higher education Commission (HEC). Those who have completed 16/18 Years of education are eligible for admission to the program. The program in the subject of Biochemistry, Physiology and Microbiology are approved by the Pakistan Medical Commission (PMC).

CAREER PROSPECTS

- Industries
- Education
- Research & Development (R&D)
- Health Organizations



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Core Course	3	Core Course	3	Elective Course	3	Elective Course	3	Research Thesis	30
Core Course	3	Core Course	3	Elective Course	3	Elective Course	3		
Elective Course	3	Elective Course	3	Elective Course	3	Elective Course	3		
Elective Course	3	Elective Course	3	Elective Course	3	Elective Course	3		



Doctor of Philosophy in Zoology

Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BS/MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

Ph.D program has been organized in accordance with the guidelines provided by the Higher education Commission (HEC). Those who have completed 16/18 Years of education are eligible for admission to the program.

CAREER PROSPECTS

- Wild Life
- Fisheries
- Industries
- Agriculture
- Education
- Research & Development (R&D)
- Health Organizations

ELECTIVES

- Advanced insect ecology
- Advanced Mammalogy
- Advanced Enzymology
- Advanced ornithology
- Advances in Aquaculture
- Advance in Helminthology
- Animal Physiology
- Applied Entomology
- Applied Parasitology
- Aquaculture
- Aquaculture Biotechnology
- Biology of ornamental fish and aquaria management
- Conservation Biology
- Desert Zoology
- Fish and Aquatic Toxicology
- Fish Breeding and hatchery management
- Fish Nutrition and Health
- Fish parasitology
- Fish Processing and value addition
- Fishing Gear and Technology
- Forensic entomology
- Gene Therapy
- Medical Entomology
- Medical Virology
- Mericulture Technology
- Reproductive Physiology
- Sea Food Processing
- Wildlife Conservation and Management



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Core Course	3	Core Course	3	Elective Course	3	Elective Course	3	Research Thesis	30
Core Course	3	Core Course	3	Elective Course	3	Elective Course	3		
Elective Course	3	Elective Course	3	Elective Course	3	Elective Course	3		
Elective Course	3	Elective Course	3	Elective Course	3	Elective Course	3		

Centre for Research in Molecular Medicine (CRIMM)



MISSION STATEMENT

- Foster professional and intellectual development of scholars and faculty members at all levels. Place major emphasis on quality of the postgraduate programme leading to PhD.
- Undertake basic research in areas of national importance in the sectors of biomedical sciences and health.
- Actively interact and develop collaborate in research and higher training with other relevant national & international institutions.
- Promote research interaction with public agencies and industry through outreach and scientific leadership.
- Organize conferences, workshops & symposia, seminars and special lectures in relevant disciplines at national and international levels.

OBJECTIVES

- To conduct quality research in molecular medicine and related disciplines with strong relevance to human diseases, human health in the local context.
- To provide research training for both undergraduate & postgraduate students in biomedical techniques, leading to PhD degree.
- To form research linkages, interactive & productive cooperation with national and international institutions conducting similar research.
- To attract scientists and physicians for short term training in molecular medicine techniques and invite foreign and local experts for lectures and in research advisory capacity.
- To publish with pioneering scientific research in lead peer reviewed international journals that are conducted at the CRiMM.
- To generate high-pitched quality training that provid with analytical manpower to meet the demand for qualified faculty and scientists, in both educational and research institutions, and in industry.
- To provide an open, stimulating and nurturing environment for training and career development in biomedical sciences.

INTRODUCTION

During the last three decades the discipline of molecular and cellular biology has expanded phenomenally in scope and in depth. New knowledge in the field, mainly acquired through a multidisciplinary approach and experimental research, has made it possible not only to unravel living processes in health and disease from molecular to organismal level but also to introduce novel and more effective therapeutic and diagnostic tools in medical practice.

In line with the policy of the University of Lahore to develop high quality expertise and manpower in emerging areas of biomedical sciences, the IMBB incorporates and developed a Centre for Research in Molecular Medicine was initiated in April 2009. The Centre represents a major investment and a bold initiative by the University in the field of life sciences and human health. A covered area of approximately 9,000 sq feet was allocated to the Centre at the University's new campus adjacent to the University College of Medicine, to develop purpose-built teaching and research laboratories with

state-of-the-art facilities. The Centre draws resources from other academic units of the University as well, such as the Institute of Molecular Biology and Biotechnology, Department of Pharmacy, the University College of Medicine and the Department of Information Technology. The Centre also has close collaboration in relevant areas with other reputable institutions within and outside the country. The Centre aims at conducting high quality research and postgraduate training in biomedical sciences with strong relevance to current issues of human health in the local and regional context. The Centre has a strong integrative and multidisciplinary approach to carry out basic and clinically oriented research and postgraduate training on specific problems ranging from molecular to epidemiological levels. To accomplish these goals the CRiMM strives to bring together young scientists and physicians under a common roof to interact and resolve problems related to health and disease with a holistic approach.

CURRENT RESEARCH AREAS IN CRIMM

- Genetics and molecular biology of cancer and associated disease
- Genetics and biochemistry of metabolic diseases with special emphasis on obesity and diabetes
- Recombinant DNA techniques
- Cell signaling mechanisms using cancer and endocrine cells as models
- Undertake the production of monoclonal and polyclonal antibodies used in medical diagnostics and applied medical research
- Cell and tissue culture technology
- Stem cell technology
- Genetics and biology of idiopathic infertility

ADVISORY COMMITTEE

E. NIESCHLAG, PHD, FRCP

Professor

University of Muenster
Muenster, Germany

MASOOD SHAMS, PHD

Professor

Harvard University,
Harvard, MA, USA

S. SCHLATT, PHD

Professor and Director CeRA

University of Muenster
Muenster, Germany

T.A. BUTT, FRCP

Professor

Fatima Memorial Medical College
Lahore, Pakistan

JAIDA MANZOOR, FCPS

Associate Professorr

Chidren's Hospital
Lahore, Pakistan

W. AKHTAR, PHD, FPAS, SI

University of the Punjab
Lahore, Pakistan

S. SAEED, PHD

Research Scientist

CNRS, University of Lille Lille,
France



Center for Stem Cell Research and Therapeutics (CSRT)



INTRODUCTION

Stem Cell Research and Therapeutics is an emerging field in medicine and research. It has wide applications in all medical and surgical fields but especially so in regenerative medicine, orthopedics, dermatology and plastic surgery. The Institute of Molecular Biology and Biotechnology is ideally and uniquely placed to host a center which combines stem cell research with surgical practice. With indigenous clinical and basic science faculty as well state of art laboratories of cell culture and molecular biology, IMBB has taken the initiative to launch 'Center for Stem Cell Research and Therapeutics (CSRT)'. This not only provide innovative avenues of research but also offers novel therapeutic strategies including Fat Grafting and Stem Cell Transfer.

With dedicated space and offices within IMBB Institute of Molecular Biology and Biotechnology, the center has a state of the art procedure room and a modern Stem Cell laboratory amongst the other essential areas which include a client reception and holding area, consultant offices, Data/record room and a client recruitment and registration station.

A variety of procedures are offered including:

1. Facial anti-aging
2. Anti hair fall
3. Body contouring
4. Osteoarthritis of major joints
5. Scar therapy

In addition, it is a hub of research activities. The procedures conducted at the center offer unique opportunities for stem cell based studies with practical application. Currently there are several PhD and MPhil groups working on various topics. Amongst these groups is Metachromatic Leukodystrophy (MLD) group, which is investigating the role of mesenchymal stem cells in MLD therapy, and the "Liposuction Study Group" which is exploring the physiological sequelae of Liposuction on the human body.

MISSION STATEMENT

The mission of the 'Center for Stem Cell Research and Therapeutics (CSRT)' is to create a scientific atmosphere of research that inspires a broad range of interdisciplinary work designed to develop novel therapeutic approaches to chronic illnesses as well cosmetic issues. It also aims to deliver state of the art health services.

CURRENT OBJECTIVES

The Center will:

- sustain a highly collaborative environment for research, clinical translation, and education;
- cultivate interdisciplinary stem cell research
- offer antiaging, hairfall, and other cosmetic services
- provide stem cell therapy for chronic medical conditions including osteoarthritis, oral squamous fibrosis, Parkinsonism, scar treatment etc.



Research Data Analysis Centre (ReD Centre)



MISSION STATEMENT

The mission of the (Research Data Analysis Centre) ReD Centre is to promote excellence in the design and analysis of research studies at University of Lahore. The Centre provides biostatistical and methodological expertise, as well as scientific leadership through collaborative relationships with biological and health sciences investigators. The Centre also provides educational offerings in a variety of areas.

Our group includes PhD and masters-level staff with experience in the design and analysis of a wide range of research studies, including pre-clinical experiments, observational and randomized studies, health econometrics and survey research, qualitative evaluations, and high dimensional functional studies.

ReD SERVICES

Biostatistics and Research Design faculty and staff can collaborate with investigation on:

Study design and planning

We provide advice on the most efficient, valid, and feasible study design: cohort, case control, prospective, retrospective, cross sectional and randomized clinical trial, and appropriate selection of the sample from the target population etc.

In addition, we provide guidance on design issues that are unique to the qualitative and quantitative methodologies.

Protocol development/Grant preparation

We can ensure that the study objectives, specific aims, and endpoints are well defined, measurable and feasible and advise on appropriate design and methods.

Randomization

We generate randomization schemes and assignments for single- and double-blind studies.

Data analysis

We analyze study data, provide interpretation of statistical analysis results, including interpretation of previously published results as well as results of ongoing analyses. This includes guidance on and development of statistical graphics and tabular displays of data, interim or final data analyses, data and safety monitoring board reports. In addition, we provide support for analysis issues that are unique to:

Qualitative studies and quantitative research.

Education

The ReD Centre offers educational opportunities for the researchers on statistical design and analysis considerations for research studies. We also offer workshops on the use of statistical packages for data management and reporting.

FOCAL PERSONS

DR. UZMA YASEEN

Assistant Professor

uzma.yasmeen@imbb.uol.edu.pk

MS. RABAIL ALAM

Assistant Professor

rabail.alam@imbb.uol.edu.pk

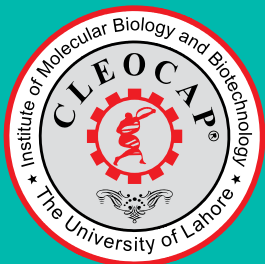
CRISPR-Cas Centre

CRISPR-Cas (Clustered Regularly Interspaced Short Palindromic Repeats) system can be applied to nearly every organism and has equal application on both plants and animals. CRISPR - Cas9 for gene editing has been used for the crops important in agriculture and it has been applied directly in embryos to reduce the time required to modify target genes compared to gene targeting technologies based on the use of embryonic stem (ES) cells.

Owing to the importance of CRISPR/Cas technology, The Chairman, Board of Governors, approved the establishment of "CRISPR/Cas Center UoL" on 1st March, 2021, in collaboration between IMBB/CRiMM and Faculty of Pharmacy at the University of Lahore.

To comply with the establishment of CRISPR/Cas Center, the genome editing team at IMBB is already working on plant tissue culturing protocols and CRISPR/Cas mediated genome editing of various crops including Cannabis, Tomato, Sugarcane and Potato. The Center also plan on apply CRISPR/Cas based genome editing tools on various human cell lines.





CLEOCAP[®] COVID-19

RNA ISOLATION KIT

Cat No IMBB/RNA/COVID/001
For Isolation of RNA for COVID-19 Testing
Please read this leaflet carefully before
sample collection



Keep this leaflet. You may need to read it again

If you have any further question, please ask your Laboratory Incharge

Once the reagents are opened, place in refrigerator or at 4°C

WHAT IS COVID-19 RNA ISOLATION KIT?

CLEOCAP[®] COVID-19 RNA isolation kit is meant to isolate the RNA from COVID-19 virus. Isolated RNA later used to perform the One Step RT-PCR amplification. If amplified, the patients is declared positive for COVID-19 genome.

BEFORE YOU USE IT

Before opening the sample kit (swabs) to collect a sample, wash your hands with soap / or use Unitizer™ (IMBB, University of Lahore), dry them. Put on the disposable gloves. Put on the mask (N 95) and cover head with headgear. Wear the disposable dress. Cover your feet with foot covers. Place a google to protect eyes.

HOW TO USE IT

Carefully open the swab in the VTM vial. Follow the step-by-step guide. Avoid contacting the reagents at any stage of the procedure.

WHAT TO DO AFTER USING IT?

Properly label the RNA collecting tube. Place at ice 20 °C for at least 10 minutes.



DEAN'S MESSAGE

Allied health Sciences is the term referred to the collection of about 70 different health professions each of which deals with different diagnostic and therapeutic aspects of healthcare provided at different clinics and hospitals. There has been a constant rise in the number of health facilities due to the population growth and increase in awareness of the people towards the importance of these healthcare services resulting in rapidly growing demand for the Allied Health Professionals. The Faculty of Allied Health Sciences at University of Lahore (UOL) was established in 2012, with a vision to produce highly trained and qualified Allied Health Professionals to meet the growing needs of the country. During the last decade, it has grown into the largest faculty of the University as well as the largest and fastest growing Allied Health Sciences faculty among all the Pakistani Universities with 13 independent departments that are offering more than 40 different graduate and post graduate courses in diverse fields of Allied Health Sciences. The source of our passion is our mission, which is centered on quality education, practical skills and scientific research. We have a highly qualified team comprising of 38 PhDs working as full time faculty members, which is no doubt one of the best Allied Health Faculties of the country. To enhance the practical and clinical skills along with class room teaching, students are trained in state of the art laboratories and are posted at various centers throughout the duration of their studies. The faculty is affiliated with many healthcare facilities like Social Security Hospitals (Multan Road and Ferozepur Road), Mansoor Hospital, multiple University-owned Sehat Clinics at different parts of the city, in addition to the 430 bedded University of Lahore Teaching Hospital. Our faculty members place a high value on teaching, practice and research as reflected in our work with students. Students are encouraged to engage themselves in research activities under supervision of our faculty members many of which are renowned researchers in their respective fields and published their research in indexed international/national journals of high repute. All the students interested to pursue their careers as Allied Health Professionals are welcome to join us at the University of Lahore, to take advantage of the opportunities and resources Faculty of Allied Health Sciences has to offer, to become an integral part of the Health Sciences community.

Prof. Dr. Syed Amir Gilani
MBBS, DMRD, PhD

DEPARTMENTS

- Radiological Sciences & Medical Imaging Technology
- Radiology Research Section
- Physical Therapy
- Sports Sciences
- Diet & Nutritional Sciences
- Food Science & Technology
- Medical Lab Technology
- Public Health
- Health Professional Technologies
- Rehabilitation Sciences
- Emerging Allied Health Technologies (DEAHT)
- Optometry & Vision Sciences
- Lahore School of Nursing





HoD's MESSAGE

I consider this a privilege to introduce University Institute of Radiological Sciences and Medical Imaging Technology as Department chair. The department was established in 2011 at old campus under umbrella of Faculty of Allied Health Sciences in The University of Lahore keeping in view the demand of professionally qualified and trained Radiology Technologists in health care industry. To date, we have more than 2100 alumni who have graduated from this department in various courses from Graduate to Doctor of Philosophy (Ph.D.) degrees. We have highly qualified faculty consisting of three PhDs in Radiology which is the highest number of PhDs serving in any Imaging department in Pakistan. Our team of trained and dedicated faculty members strive day and night for providing the best possible teaching environment to our students. This faculty is committed to create an environment of active learning and student centered instruction helping our students to be competent and compassionate healthcare providers fully capable of facing professional challenges ahead. I don't feel any hesitation in expressing my confidence that the choice of this department will prove to be an excellent decision for the students having a desire to become imaging technologists or sonographers in future.

Prof. Dr. Zareen Fatima

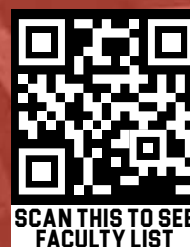
MBBS, MS Radiology (Japan), PhD Radiology (Japan)

MISSION STATEMENT

University Institute of Radiological Sciences and Medical Imaging Technology (UIRSMIT) at the University of Lahore is one of the leading departments in the world providing diverse specialties in the medical imaging sciences. This helps our students to combat with the modern challenges brought about by the extensive use of computer technology and rapid development in diagnostic imaging modalities. UIRSMIT seeks to develop graduates, who will be able to provide timely, cost-efficient, and high-quality medical imaging and image guided therapy services to a diverse patient population countrywide and abroad. The department is striving at its best to educate its students about the importance of critical function that a medical imaging and Image guided therapy serve in improving the outcomes and advancing the care of patients. UIRSMIT equips its students with a high degree of information literacy, including the ability to seek and use information resources for problem-solving, critical thinking and professional values, such as those outlined in the American Society of Radiologists and American Society of Ultrasound in Medicine. UIRSMIT intends to continue making significant contributions in the discovery of innovative imaging technologies, and image-guided therapy in order to make a difference in the enhancement of healthcare delivery system. In addition, we at UIRSMIT prepare our students for international certification examination and qualify for regional and abroad licensure.

INTRODUCTION

This department was introduced in 2011 by the founder Dean of Allied Health Sciences Prof. Dr. Syed Amir Gilani in the University of Lahore. It has developed to be one of the largest departments of this University. Till date we have more than 2100 alumni graduated from this department in various courses from undergraduate to Doctor of Philosophy (Ph.D.) degrees. We have adopted and modified our curriculum to meet our graduates to the modern challenges in learning methodologies and hospital-based challenges to face a variety of diseases in the diverse human population of the world. Currently, Prof. Dr. Zareen Fatima is the head of this department.



Bachelor in Medical Imaging Sciences



Program Duration: 5 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, HSSC, F.Sc (Pre-Medical) / A-Level or Equivalent with Minimum 60% marks.

CAREER PROSPECTS

This professional program is for the students interested to pursue their careers in the field of Radiological Technology including Ultrasound and it serves to provide them the knowledge of latest techniques in this field. After completing this program, they can go on to do higher degrees like MS in medical imaging technology, MS in diagnostic ultrasound or can compete for the jobs in the Radiology department as Radiological technologist as per job description approved by health authorities later on. The students are also eligible to appear in Board exams in medical Imaging conducted by the international organizations.

INTRODUCTION

The degree was introduced for the first time in Pakistan keeping in view the demand of trained and knowledgeable imaging personnel in Radiology departments of healthcare facilities across Pakistan as well as around the globe. The curriculum encompasses all the basic modalities of Radiology as well as the rapid advancements in the field of Medical Imaging Technology such as Radiography, CT, MRI and Ultrasound etc.



ROAD MAP		TOTAL SEMESTERS 10				TOTAL CREDIT HOURS 172	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	Social Psychology and Behavioral Sciences	3	General Ultrasound	3
Physiology	3	Basics of Statistics	3	English III	3	Digital Imaging	2
Biochemistry	3	Radiologic Pathology	3	Mathematics	3	Magnetic Resonance Imaging (MRI)	4
Islamic Studies	3	Computer Education	3	Medical Ultrasound Physics and Instrumentation	3	Mammography	2
Biosafety, Patient and Equipment Safety	3	Pakistan Studies	3	Radiation Sciences and Technology	3	Radiographic Positioning II	4
English I	3	Medical Imaging Ethical and Legal Aspects	3	Computed Tomography(CT)	3	Special Radiographic Procedures	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Applied Pathology	3	Advanced Musculoskeletal Ultrasound	3	Clinical Pharmacology	3	Practical General Ultrasound	3
Advanced Systemic Anatomy	3	Radiological Sciences in Fetal Medicine	4	Interventional Radiology	4	Vascular Ultrasound	4
Applied Physiology	3	Applied Medicine	3	Practical X Rays	4	Practical Vascular Ultrasound	3
Abdominal Ultrasound with Pathological Correlation	4	Applied Surgery	3	Imaging Protocols in Computed Tomography	3	Research Methodology	2
Gynecological Ultrasound with Pathological Correlation	3	Echocardiography	4	Practical Computed Tomography	3	Research Project	5
SEMESTER 9			CR. HR.	SEMESTER 10		CR. HR.	
Angiography and Cardiac Imaging			3	Nuclear Medicine		4	
Imaging Protocols in MRI			3	Practical Nuclear Medicine		3	
Practical Magnetic Resonance Imaging			3	Practical Interventional Radiology		3	
Practical Mammography			2	Medical Imaging in Emergency Medicine		4	
Research Project (Cont.)			5	Practical Medical Imaging In Emergency Medicine		3	

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.





Bachelor in Medical Ultrasound Technology

Program Duration: 4 Years
Timing: Morning (Monday-Friday)
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, HSSC, F.Sc (Pre-Medical) / A-Level or Equivalent with Minimum 50% marks.

CAREER PROSPECTS

Students who are interested to pursue their career as a sonographer can highly benefit from this program. The program has been constructed in such a way that students can acquire detailed knowledge about ultrasound applications and further enhance their skills by hands-on training which is a part of this program. After completing this program students have the opportunity to work as sonographer in various medical setups. They can also pursue higher education after successfully completing this degree, such as MSDU.

INTRODUCTION

The BS in medical ultrasound technology program (BSMUT) presents a new concept in the field of diagnostic medical imaging education. This degree provides the students with knowledge, skills and techniques to work as a professional sonographer. The duration of this degree program is 4 years.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08			TOTAL CREDIT HOURS 134		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	Social Psychology and Behavioral Sciences	3	Musculoskeletal Ultrasound	4
Physiology	3	Basics of Statistics	3	English III	3	Gynecological Ultrasound	3
Biochemistry	3	Pathology	3	Mathematics	3	Small parts Ultrasound	2
Islamic Studies	3	Computer Education	3	Medical Ultrasound Physics and Instrumentation	3	Vascular Ultrasound	4
Biosafety, Patient and Equipment Safety	3	Pakistan Studies	3	Abdominal Ultrasound	3	Interventional Ultrasound	3
English I	3	Medical Imaging Ethical and Legal Aspects	3	Obstetrical Ultrasound	3	Report Writing and Advances in Ultrasound	2
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Applied Pathology	3	Advanced Musculoskeletal Ultrasound	3	Clinical Pharmacology	3	Advances in Ultrasound	3
Advanced Systemic Anatomy	3	Radiological Sciences in Fetal Medicine	4	Peripheral Vascular Ultrasound	2	Supervised Clinical Practice II	4
Applied Physiology	3	Applied Medicine	3	Visceral Vascular Ultrasound	2	Research Project (Cont.)	6
Abdominal Ultrasound with Pathological Correlation	4	Applied Surgery	3	Supervised Clinical Practice	3		
Gynecological Ultrasound with Pathological Correlation	3	Echocardiography	4	Research Methodology	2		
				Research Project	4		



Master of Science In Diagnostic Ultrasound (MSDU)



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/17 Years of Education, including MBBS, DMRD, MID, BSMIT, MSc Medical Ultrasound Technology or Equivalent with minimum 2.5 / 4.0 CGPA or 60% Marks.

INTRODUCTION

This program was introduced for the first time in Pakistan, keeping in view the need of a Radiology department of healthcare institutes in Pakistan. This course will provide and enable students to cope with the rapid advancement in the field of Medical Diagnostic Ultrasound.

CAREER PROSPECTS

The degree adds a lot to the professional skills of the students and broadens the horizon of opportunities for better jobs and careers. After the completion of this degree students can do Ph.d in Diagnostic Ultrasound which will help them to get the job in the country and abroad.



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Ultrasound Physics & Instrumentation	3	Research Methodology & Biostatistics	2	Advances in Ultrasound	2	Research Thesis	6
Abdominal Ultrasound	3	Musculoskeletal Ultrasound	2	Small Parts Ultrasound	2		
Gynaecological Ultrasound	3	Vascular Ultrasound	2	Interventional Ultrasound & Patient Safety	2		
Obstetrical Ultrasound	3						



Doctor of Philosophy in Diagnostic Ultrasound (PHD-DU)

Program Duration: 3 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BMIS/MSDU/MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 70% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The concept of this Ph.D in DIAGNOSTIC ULTRASOUND is a program in educational process which is accepted in academia and proven to be highly effective toward the demand of skilled graduate. The curriculum maintains basic and advance core courses which are necessary to employ in the future plans. Thus, the attention in different modalities of ultrasound will concern clinical practice with minimum alteration on the other core courses regarding other tracks when deemed necessary. This strategy aims to give a comprehensive view in all Medical Diagnostic Ultrasound division and a focused course study plan on the specific selected tracks with integrated courses of computer sciences.

CAREER PROSPECTS

To enable the student to relate the physics and instrumentation (Knobology) of medical diagnostic ultrasound. After discussing the basic definitions like sound waves, period, wave equation etc, image interpretation, Knobology, transducers, Doppler, display modes, scan convertors, memory, image recording, artifacts, bioeffects and safety shall be discussed in detail.



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Ultrasound Physics & Instrumentation	3	Echocardiography	2	Color doppler Physics & Instrumentation	3	Ultrasound in Rheumatology	3	Research Thesis	30
Abdominal Ultrasound	3	Musculoskeletal Ultrasound	3	Advances in Abdominal Ultrasound	3	Color doppler in Obgyn & Abdominal Imaging	3		
Gynaecological Ultrasound	3	Interventional Ultrasound	2	Ultrasound in Fetal Medicine	3	Biostatistics	2		
Obstetrical Ultrasound	3	Vascular Ultrasound	3	Ultrasound in Surgery & Pain Management	3	Research Methodology	2		
		Small Parts Ultrasound	2			Patient Care and Safety	2		



Radiology Research Section

HoD's MESSAGE

It is a great honor for me to share my thoughts on University of Lahore, Department of Radiology Research Section (RRS). Radiology and Imaging Department is one of the pivotal departments of any hospital because it plays an enormous role in the diagnosis and management of diseases by providing physicians with accurate diagnosis, treatment options, guiding interventional and Radiotherapeutic treatment and planning. Likewise, Department of Medical Imaging at University of Lahore Teaching Hospital provides diagnostic and clinical imaging help to all the departments. Department of Medical Imaging comprises five basic modalities, Digital Radiography, Mammography, Ultrasonography including Color Doppler Ultrasound, Fluoroscopy, CT scan including CT angiography and 3-Dimensional CT-imaging and Dental Radiography. On the academic front, we are offering Postgraduate Radiology training to Doctors DMRD (Diploma in Medical Radiodiagnostic). The course consists of four semesters with Interactive lectures on all modalities, Quizzes, Assignments and research with Thesis is writing including rotation of students in UOL teaching Hospital and affiliated Hospitals for practical training in various Diagnostic modalities. In short we are providing imaging services to patients as well as training of doctors for betterment of health care in Pakistan.

Prof. Dr. Muhammad Nawaz Anjum
MBBS, MD (USA), FCPS Radiology (PAK)
Diplomate American Board of Radiology

MISSION STATEMENT

- Enable students to develop the cognitive, effective and psychomotor skills needed by an entry level radiologist as prescribed in the professional curriculum.
- Provide a liberal arts and sciences component which will broaden the student's knowledge and understanding into areas beyond the Radiology Curriculum.
- Provide an opportunity for students to achieve a high degree of information literacy, including the ability to seek and use information resources for problem- solving, critical thinking and professional values, such as those outlined in the American Society of Radiologists.
- Practice set standards for Medical Imaging and Radiology.
- Demonstrate a high degree of student success within the curriculum, as evidenced by low attrition & high graduation rates.

INTRODUCTION

There are four major divisions in medical imaging (Radiological Sciences) Diagnostic Radiography, Ultrasound, Nuclear Medicine and Radiation Therapy. Medical Imaging relies heavily on computer controlled equipments with the image productions and processing emphasizing new techniques i.e. digital image processing, picture archiving & communication system (PACS) etc. In addition, the medical diagnostic ultrasound is believed to be a diagnostic tool which is replacing the stethoscope of a physician. Today, a physician cannot cope with rapid advancements in the computerized technologies unless he chooses the option of upgrading his knowledge including clinical as well as diagnostic advances. Medical Imaging (Radiological Sciences) especially Medical Diagnostic Ultrasound, CT and MRI curriculum s should be aligned with new technology and national or regional requirements. Our goal, at Radiology Research Section is to train our residents and clinical fellows to face all aspects and challenges of our constantly evolving specialty.





Diploma in Medical Radiology & Diagnostic

Program Duration: 2 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore.

Recognized By: Pakistan Medical Council (PMC)
Higher Education Commission,

Entry Requirements

- MBBS (registered PMC) with 1 year house job in PMC recognized Institution, minimum 2.5 CGPA / 1st division in annual system.

as MD Radiology. The successful student of DMRD are encouraged to enroll in MD course. They shall be granted exemption from MD part I examination and two years of relaxation provided to complete mandatory clinical rotation.



INTRODUCTION

This program of Diploma in Medical Radiology and Diagnostics is especially designed for those students who want to accelerate their careers in field of Diagnostic Radiology.

CAREER PROSPECTS

This professional program is for the Physicians community to provide them the latest techniques in the field of Medical Diagnostic Ultrasound worldwide. After completing this program, they have all the basic knowledge required for a Radiologist and can start his career by competing for jobs or can go on for higher degrees such

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Applied Anatomy	1	Cardiovascular Radiology	2	Angiography	1	Interventional Radiology	3
Applied Pathology	1	Gastrointestinal Tract Radiology	1	Computed Tomography (CT)	1	Research/ Dissertation	6
Basics of Ultrasound	1	Genitourinary System Radiology	1	Magnetic Resonance Imaging (MRI)	1		
Color Doppler Ultrasound	1	Musculoskeletal Radiology	2	Medical Ethics	1		
General Radiology/ Digital Radiology	2	Neuroradiology and ENT Radiology	1	Musculoskeletal Ultrasound	1		
Mammography and breast	1	Radiology in emergency medicine	1	Nuclear Medicine	1		
Radiology Physics and Instrumentation	2	Respiratory System Radiology	1	Research Methodology and Statistics.	2		
				Ultrasound in Fetal Medicine/ Gynaecological and Verified Obstetrical USG	1		



HoD's MESSAGE

Welcome to the University Institute of Physical Therapy (UIPT), the University of Lahore which has assembled the best faculty members and resources in Pakistan to prepare the students for DPT, MS/M.Phil. and doctorate levels of physical therapy. We are focusing on clinical-based education while incorporating evidenced-based critical-thinking and decision-making. The UIPT is soundly committed to the academic and research that edifies the dynamic role of physical therapy. Programs offered at UIPT are designed to provide students with the skills and tools needed to meet the current professional demands in the country and keep pace with the ever-expanding roles of physical therapy in our society. We encourage you to consider your education at the University of Lahore. Our experienced faculty will provide you with rigorous academic, clinical and research experiences in a state-of-the-art facility. We welcome your inquiry and look forward to helping you achieve your professional goals.

Dr. Syed Asadullah Arslan

Ph.D. PT, MSPT, t.DPT, BSPT, Ph.D. PT (TUMS), MSPT (TUMS), t.DPT (KEMU), BSPT (USWR)

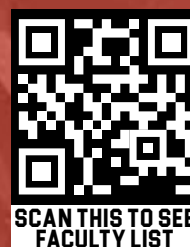
Tehran University of Medical Sciences, Iran

MISSION STATEMENT

Our Mission is to establish a state-of-the-art teaching, clinical research division of Physical Therapy & Rehabilitation at The University of Lahore for basic & advanced activities/training along with quality undergraduate and postgraduate physical therapy education in line with current national & international higher standards.

INTRODUCTION

University Institute of Physical Therapy (UIPT) is one of the biggest departments, under the umbrella of Faculty of Allied Health Sciences (FAHS). The date of birth of this department is 1st September, 2012. The launching milestone achieved by this department was the accommodation of so many migration students from other known universities. So, it started its journey from four semesters and five classes with senior most batch of 4th semester. Now, the total number of students of this department is 2400. The total permanent faculty of this department consists of more than 100 highly qualified professional along with 05 national/ international permanent PHD Faculty members and 04 visiting faculty members so far. Just after three months, four new postgraduate programs consisting of M.S (Musculoskeletal, Neurology, Kinesiology, Biomechanics) and PhD in Physical Therapy also launched by this department first ever in Pakistan under the supervision of international supervisors. Future programs include MS and M.Phil. Programs in other specialties of Physical Therapy. Six clinical attachment hospitals are currently available for clinical training of undergraduate and postgraduate students i.e Mayo Hospital, Sir Ganga Ram Hospital Social security hospital Multan road, Social security hospital kot lakhpat, Mansoorah hospital, UOL Teaching Hospital. University Institute of Physical Therapy is successfully running "Pakistan Journal of Physical Therapy" (PJPT), a pioneer, international, peer reviewed, open access and quarterly journal. Scope of the journal includes manuscripts mainly from physical therapy profession and research.



Doctor of Physical Therapy



Program Duration: 5 Years

Timing: Morning (Monday - Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, HSSC, F.Sc (Pre-Medical) / A-Level or Equivalent with Minimum 60% marks.

INTRODUCTION

This degree is designed especially for those students who want to excel their career in the field of Physical Therapy. They will be Called “Physiotherapist” and will add “Doctor” as Prefix in their names and “Physiotherapist” as Suffix in their names. This Degree will provide professional skill to them and they will be in a position to get better jobs as a “Physiotherapist” in health settings. Physiotherapists can treat

a wide range of disorders, they are highly in demand today making career physical therapy very attractive. Currently there is a lot of demand for physiotherapists in Pakistan as well as in USA, Canada, UK, Australia and in South Asia etc. It is estimated that one physiotherapist is required per 10,000 people. But the total number of physical therapy professionals in Pakistan is only in hundreds.

CAREER PROSPECTS

The physical therapist works with a diversity of workload in all healthcare centers, often as part of multidisciplinary teams. Our highly competent clinical, academic, and research faculty permit our students to ingress to the most advanced clinical, academic, research, and professional expertise inside the campus and practice settings. Physiotherapists are required in every medical set up. Physiotherapist can pursue his career in Academics, Clinical and research, number of PhD Scholars is far less, thus providing great opportunities for upcoming researchers.



ROAD MAP		TOTAL SEMESTERS 10			TOTAL CREDIT HOURS 175		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy I	4	Anatomy II	4	Anatomy III	3	Biochemistry II	3
Physiology I	3	Physiology II	3	Physiology III	3	Anatomy IV	3
Kinesiology I	3	Kinesiology II	3	Biomechanics and Ergonomics, I	3	Health and Wellness	2
English-1 (Functional English)	3	English II (Communication Skills)	3	Biochemistry I	2	Biomechanics and Ergonomics II	3
Pakistan Studies	2	Islamic Studies / Ethics	2	English III (Technical Writing and Presentation Skills)	3	Exercise Physiology	3
Introduction to Computer	3	Sociology	2	Medical Physics	3	Molecular Biology and Genetics	2
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Physical Agents and Electrotherapy I	3	Bio-Statistics II / University Optional	3	Evidence Bases Practice	3	Emergency Procedures and Primary Care in Physical Therapy	3
Behavioural Sciences (Psychology and Ethics)	2	Community Medicine and Rehabilitation	3	Medicine I	3	Medicine II	3
Pathology and Microbiology, I	2	Pathology and Microbiology-II	3	Surgery I	3	Surgery II	3
Biostatistics I	3	Pharmacology and Therapeutics II	2	Musculoskeletal Physical Therapy	3	Neurological Physical Therapy	3
Pharmacology and Therapeutics, I	2	Physical Agents and Electrotherapy II	3	Radiology and Diagnostic Imaging	3	Scientific Inquiry and Research Methodology	3
Therapeutic Exercises and Technique	3	Supervised Clinical Practice II	3	Supervised Clinical Practice III	3	Supervised Clinical Practice IV	3
Supervised Clinical Practice I	3						
SEMESTER 9			CR. HR.	SEMESTER 10		CR. HR.	
Cardiopulmonary Physical Therapy			3	Gerontology and Geriatric Physical Therapy		2	
Clinical Decision Making and Differential Diagnosis			3	Obstetrics and Gynecological Physical Therapy		2	
Integumentary Physical Therapy			2	Pediatric Physical Therapy		2	
Manual Therapy			3	Sports Physical Therapy		2	
Professional Practice			2	Supervised Clinical Practice VI		4	
Prosthetics and Orthotics			2	Research Project		6	
Supervised Clinical Practice V			3				

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.





Master of Philosophy in Physical Therapy (Musculo Skeletal)

Program Duration: 2 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, 5 Years DPT or BS Honors degree from HEC recognized Institute with Minimum 2.5/4.00 CGPA.
- UOL Entry Test / Interview is mandatory.
- GAT/NTS-General Test – with Minimum 50% marks.

INTRODUCTION

This degree is designed especially for those DPT graduates only who want to excel their career in the field of Physical Therapy education and teaching. This Degree will provide professional skills of teaching and research and M.Phil (MSK-PT) graduates will be in a position to get better jobs in rapidly growing and developing physical therapy institutions.

CAREER PROSPECTS

This degree provides foundation for PhD. This degree will provide them with professional skills and equip them to compete in the job market M. Phil graduates usually pursue academic career and go on for Ph.D in their area of interest. There are opportunities in teaching and research. This is the era of specialization and research. The institutions are now interested in hiring subject specialists and the M. Phil graduates are the best option for them.



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Evidence Based Practice	2	Basic Medical & Physical Therapy Sciences	3	Research / Dissertation	6	Research	6
Clinical Decision Making	2	Documentation & Teaching Methodology In Physical Therapy	2				
Professional Practice/Laws, Ethics & Administration	2	Applied Biomechanics & Ergonomics	3				
Differential Diagnosis	2	Musculoskeletal Disorders & Assessment	3				
Medical Informatics & Research Methodology	2	Exercise Rehabilitation	3				





Master of Philosophy in Physical Therapy (Biomechanics)

Program Duration: 2 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, 5 Years DPT or BS Honors degree from HEC recognized Institute with Minimum 2.5/4.00 CGPA.
- UOL Entry Test / Interview is mandatory.
- GAT/NTS-General Test – with Minimum 50% marks.

INTRODUCTION

This degree course is structured for the DPT graduates who have vision of excelling in assessment of movement and its patterns of different living organisms. The students will study the application of forces and their effects on living organisms specifically in humans. It is important for comprehending the structural and functional aspects of biological systems that are humans, animals, plants etc. by means of methods of mechanics.

CAREER PROSPECTS

Biomechanics is closely related to engineering because it often uses traditional engineering sciences to analyze biological systems. Subfields of biomechanics may include:

- Kinesiology
- Human locomotion & gait analysis
- Musculoskeletal & orthopedic biomechanics
- Cardiovascular biomechanics
- Ergonomics
- Sports biomechanics
- Rehabilitation
- Orthotics & prosthetics



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Evidence Based Practice	2	Biomechanical Measurement and Technology	3	Nutritional Aspects of Exercise and Sport Performance	2	Research / Dissertation	6
Clinical Decision Making	2	Advance Biomechanics of Locomotion	3	Evaluation of Literature and Current Trends in Biomechanics	2		
Professional practice/ Laws, Ethics and Administration	2	Neuromusculoskeletal Physiology and Function	3	Research / Dissertation	6		
Differential Diagnosis	2	Injury & Occupational Biomechanics	3				



Master of Philosophy in Physical Therapy (Kinesiology)

Program Duration: 2 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, 5 Years DPT or BS Honors degree from HEC recognized Institute with Minimum 2.5/4.00 CGPA.
- UOL Entry Test / Interview is mandatory.
- GAT/NTS-General Test – with Minimum 50% marks.

INTRODUCTION

The primary objective of the master's degree program in kinesiology is to help students to acquire a breadth of knowledge grounded in theory, to gain expertise in one or more areas of specialization, and to develop competence in methods of inquiry.

CAREER PROSPECTS

This degree provides foundation for PhD. This degree will provide them with professional skills and equip them to compete in the job market M. Phil graduates usually pursue academic career and go on for Ph.D in their area of interest. There are opportunities in teaching and research. This is the era of specialization and research. The institutions are now interested in hiring subject specialists and the M. Phil graduates are the best option for them.



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Evidence Based Practice	2	Advanced Motor Learning and Control	3	Advanced Electrocardiography	3	Research / Dissertation	6
Clinical Decision Making	2	Sports and Exercise in Society	2	Evaluation of Literature and Current Trends in Kinesiology	3		
Professional Practice/Laws, Ethics & Administration	2	Advance Physiology of Exercise	3	Research / Dissertation	2		
Differential Diagnosis	2	Measurement and Analysis of Human Motion	3				
		Bioenergetics of Physical Activities	3				





Master of Science in Physical Therapy (Neurology)

Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, 5 Years DPT or BS Honors degree from HEC recognized Institute with Minimum 2.5/4.00 CGPA.
- UOL Entry Test / Interview is mandatory.
- GAT/NTS-General Test – with Minimum 50% marks.

INTRODUCTION

Neurological physiotherapists manage people with movement disorders as a result of injuries and diseases of the brain, spinal cord and the broader neuromuscular system. Therapists work with people across a broad range of issues, ranging from sports injuries to those who have severe brain or spinal cord damage from trauma or neurological diseases. This exciting and modern postgraduate provision is for qualified physiotherapists wishing to advance their professional practice and earn a further professional and academic qualification.

CAREER PROSPECTS

This course equips physiotherapists with the knowledge and skills required to operate at senior and strategic levels in health care services and higher education institutes. Career opportunities largely exist in acute and rehabilitation hospitals, private practice, research and management. Neurological Physical Therapy promises a career of immense interest and challenge at the cutting edge of research into how the brain and nervous system works and repairs. Students can further pursue their education to PhD level at the completion of degree.



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04			TOTAL CREDIT HOURS 36		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Evidence Based Practice	2	Biostatistics and Research Methodology	2	Advanced Practice & Concepts In Pediatric Neurological Physical Therapy	3	Research / Dissertation	6
Clinical Decision Making	2	Applied Clinical Neurosciences	2	Advanced Practice & Concepts In Adult Neurological Physical Therapy	3	Clinical Residency	6
Professional practice/ Laws, Ethics and Administration	2	Advanced Motor Control & Learning	2	Patient care Skills	2		
Differential Diagnosis	2	Measurement & Analysis of Human Motion	2				

Master of Science in Physical Therapy (Musculo-Skeletal)



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, 5 Years DPT or BS Honors degree from HEC recognized Institute with Minimum 2.5/4.00 CGPA.
- UOL Entry Test / Interview is mandatory.
- GAT/NTS-General Test – with Minimum 50% marks.

INTRODUCTION

This degree is designed for those graduates who want to excel their career in the field of physical therapy in order to provide physical therapy services to the patients having musculoskeletal disorder. This degree will provide such professional skills that students will be able to function well as a member of multidisciplinary rehabilitation team in disabled community and can design education based and research oriented physical therapy practice

CAREER PROSPECTS

After completion of this degree students will be able to apply theory into practice with appropriate selection of patients using problem skills. There will be a wide range of job opportunities for students, in different academic and clinical setups. Students will be able to enlighten their future by getting enrolled in national and international PhD. programs. The research expertise of students will get improved to the level that they will be able to conduct individual and supervised researches. This post graduate degree will enable students to pursue their clinical and hospital based career in various musculoskeletal rehabilitation centers.



ROAD MAP	TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 36		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Evidence Based Practice	2	Biostatistics and Research Methodology	2	Applied Biomechanics and Ergonomics-II (Lower Quadrant)	2	Research / Dissertation	6
Clinical Decision Making	2	Applied Biomechanics and Ergonomics-I (Upper Quadrant)	2	Musculoskeletal Disorders and Assessment-II (Lower Quadrant)	2	Clinical Residency	6
Professional practice/ Laws, Ethics and Administration	2	Musculoskeletal Disorders and Assessment -I (Upper Quadrant)	2	Advanced Musculoskeletal Physical Therapy Practice -II (Lower Quadrant)	3		
Differential Diagnosis	2	Advanced Musculoskeletal Physical Therapy Practice-I (Upper Quadrant)	3				



Doctor of Philosophy in Physical Therapy



Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, DPT/BS/MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

This degree is designed for those graduates who want to excel their career in the field of physical therapy in order to provide physical therapy services to the patients having musculoskeletal disorder. This degree will provide such professional skills that students will be able to function well as a member of multidisciplinary rehabilitation team in disabled community and can design education based and research oriented physical therapy practice.

CAREER PROSPECTS

After completion of this degree students will be able to apply theory into practice with appropriate selection of patients using problem skills. There will be a wide range of job opportunities for students, in different academic and clinical setups. Students will be able to enlighten their future by getting enrolled in national and international PhD. programs. The research expertise of students will get improved to the level that they will be able to conduct individual and supervised researches. This post graduate degree will enable students to pursue their clinical and hospital based career in various musculoskeletal rehabilitation centers.

SPECIALIZATION

BIOMECHANICS

- Basic Medical and Physical Therapy Sciences
- Advanced Biomechanics of Locomotion
- Biomechanical Measurement and Technology
- Injury and Occupational Biomechanics
- Evaluation of Literature and Current Trend in Biomechanics
- Nutritional Aspects of Exercise and Sports Performance
- Neuromusculoskeletal Physiology and Function

KINESIOLOGY

- Basic Medical and Physical Therapy Sciences
- Advance Motor Learning and Control
- Advance Physiology of Exercise
- Bioenergetics of Physical Therapy
- Measurement and Analysis of Human Motion
- Advance Electrocardiography
- Evaluation of Literature and Current Trends in Kinesiology
- Sports and Exercise in Society

MUSCULOSKELETAL 1

- Applied Biomechanics and Ergonomics
- Basic Medical and Physical Therapy Sciences
- Musculoskeletal Disorders and Assessment - I (Upper Quadrant)
- Musculoskeletal Disorders and Assessment II (Lower Quadrant)
- Exercise Rehabilitation
- Musculoskeletal Disorders and Assessment
- Proposal Writing

MUSCULOSKELETAL 2

- Advance Musculoskeletal Physical Therapy Practice - I (Upper Quadrant)
- Applied Biomechanics and Ergonomics-I (Upper Quadrant)
- Biostatistics and Research Methodology
- Musculoskeletal Disorders and Assessment - I (Upper Quadrant)
- Advance Musculoskeletal Physical Therapy Practice II (Lower Quadrant)
- Applied Biomechanics and Ergonomics II (Lower Quadrant)
- Musculoskeletal Disorders and Assessment II (Lower Quadrant)
- Proposal Writing

NEUROLOGY

- Basic Medical and Physical Therapy Sciences
- Advanced Motor Control and Learning
- Applied Clinical Neurosciences
- Biostatistics and Research Methodology
- Functional Rehabilitation
- Advanced Practice in Adult Neurological Physical Therapy
- Advanced Practice in Pediatrics Neurological Physical Therapy
- Cognitive and Perceptual Dysfunction

ELECTIVES

- Science, Theory and Clinical Application in Orthopaedic Physiotherapy
- Manual Therapy
- Sports Traumatology and Rehabilitation
- Advanced Neuro Rehabilitation
- Motor Control Theory and Practical Application
- Cellular Rehabilitation
- Public Health and Physical Therapy
- Cardiovascular and Pulmonary Physical Therapy
- Advanced Physiology of Muscle and Nerve
- Tissue Biomechanics
- Occupational Biomechanics
- Electrophysiology

ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Clinical Decision Making	2	Course-I	2	Course-V	2	Elective-I	2	Research Thesis	30
Differential Diagnosis	2	Course-II	3	Course-VI	2	Elective-II	2		
Evidence Based Practice	2	Course-III	3	Course-VII	3	Elective-III	2		
Medical Informatics and Research Methodology	2	Course-IV	3	Advanced Biostatistics and Research Methodology	2	Elective-IV	2		
Professional Practice / Laws, Ethics and Administration	2			Diagnostic Imaging In Rehabilitation	2	Elective-V	2		
Documentation and Teaching Methodology in Physical Therapy	2					Elective-VI	2		
						Elective-VII	2		





HoD's MESSAGE

Welcome to the department of Sports Sciences and Physical Education - Faculty of Allied Health Sciences. We strive to offer best education in the field by combining the core values of health and physical education with the contemporary elements of Sports Sciences. The pragmatic approach that we inculcate in our students through practical and hands on training is an integral part of our curriculum. Besides that instigating critical thinking and applying scientific lens to day to day tasks and scenario to seek optimal solution is also a part of our academic values. Our aim is to equip the students with a divers and multifaceted knowledge so that they could meticulously asses a situation, come up with modular solutions and stand out in the competition, and above all, be a productive members of the society.

Prof. Dr. Yasmeen Iqbal
Ph.D

MISSION STATEMENT

The mission of the Sport Sciences program at The University of Lahore is to promote quality knowledge, research and expertise associated with human movement, physical education and sports to improve the quality of life and human performance.

INTRODUCTION

The vision of sports sciences & physical education department is to have a positive impact through various programs that promote sports leadership, wellness, teamwork & ethics, and provide students and faculty, the opportunities to design and enhance the intellectual assets. Further to develop moral values required to lead meaningful lives while influencing the society in respectful ways. The programs in the Department of Sports Sciences and Physical Education are designed to prepare students for lifelong growth in the physical, intellectual, cultural, emotional and social dimensions. These goals and objectives are met through the contemporary and updated field knowledge imparted by the qualified faculty with research based information and utilizing the latest technology.



Bachelor of Science in Sports Sciences and Physical Education



Program Duration: 4 Years

Timing: Afternoon (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, FA, FSc with Minimum 50% Marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

This program consists of 134 credit hours. After completion of Four years BS Sports Sciences and Physical Education students will be able to:

Integrate a broad and coherent theoretical and technical knowledge of health and physical education and the exercise and sport science disciplines with advanced specialist knowledge related to physical education and sport sciences.

Critically review and apply information with autonomy, responsibility and judgment in order to both anticipate and creatively solve problems related to professional practice, including developing appropriate activities for participation in physical education and sport in contemporary settings.

CAREER PROSPECTS

Employment for graduates would include such positions as professional coaches, sport directors, sport and exercise scientists and coordinators and sport development officers in professional and government contexts and in urban and regional localities.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 8				TOTAL CREDIT HOURS 134	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Athletics-I	1	Athletics-II	1	Athletics-III	1	Administration and Management in Sports	3
English-I	3	Basics of Human Anatomy	3	English-III	3	Basics of Human Physiology	3
Foundation of Physical Education	3	Biochemistry (General 2)	3	Games-III	2	Health Eduction	3
Games-I	2	English-II	3	Gymnastics	2	Games-IV	2
Mathematics-I	3	Games-II	2	Introduction and Application of Computer	3	Introduction to Modern Technologies	3
Pakistan Studies	3	Islamic Studies	3	Sports Biomechanics	3	Athletics-IV	1
Philosophical Basis of Physical Education	3	Rules and Techniques of games and sports	3	Talent Identification in Sports	3	Sociology	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Environmental Sciences	3	Planning and Development of Sports Facilities	3	Exercise Physiology	3	Adapted Physical Education	3
Introduction to Statistics	3	Practical (Teaching Practice)	2	Formation of Research Proposal	1	Curriculum Development in Physical Education	3
Physical Education for Special Population	3	Research Methodology in Physical Education	3	Role of Media in Sports	3	Research Thesis/Research Project	6
Science of Sports Training	3	Specialization in One Group of Track and Field	3	Scientific Sports Coaching	3	Sports Medicine	3
Sports Nutrition	3	Sports Psychology	3	Specialization in One Game	3		
		Test, Measurement and Evaluation in Physical Education and Sports	3	Trauma and Rehabilitation	3		





HoD's MESSAGE

University Institute of Diet and Nutritional Sciences (UIDNS) is committed to improving human health and wellbeing through a balanced diet, adequate nutrition, and healthy lifestyle. Our team strives to achieve this goal through a wide range of research initiatives focusing on nutritional epidemiology, food technology, nutritional biochemistry, public health, clinical nutrition, and (medical) anthropology of food. The department offers programs that provide a theoretical and practical framework to comprehend the fundamentals of nutrition for a broader implementation of nutritional strategies at a local, national, and global level. We are committed to preparing our graduates for outstanding professional careers, from planning to applying nutritional strategies at the aforementioned levels. The offered degree programs will play a substantial role to develop a thorough understanding of nutritional science's essentials along with practical training concerning the food, health, and agriculture sectors. This in-depth understating will support studying, analyzing, and knowing the factors that influence nutrition at molecular to the monumental level, perinatal to aging, and micro to macro levels. Thus, we invite you to join our team and learn to make this world a better living place.

Dr. Shahnai Basharat

Associate Professor/Head of the Department
PhD Human Nutrition and Dietetics

MISSION STATEMENT

The mission of the University Institute of Diet and Nutritional Sciences is to discover and circulate the latest knowledge of healthy food choices and nutritional status for the well-being of the community in order to improve the quality of life. Promote an intellectual and culturally diverse educational and research environment by providing high-quality education and skills. The department strives to educate and develop insights and skills based on international standards.

INTRODUCTION

The department of diet and nutritional sciences was established in 2012 under the umbrella of the Faculty of Allied Health Sciences. The field of Nutrition and Dietetics has evolved as one of the allied health sciences offering its services in preventive as well as therapeutic domains. With the recent surge in health consciousness of the general public, more people are recognizing the link between diet and overall quality of life and functionality in society. In this regard, the rising demand for nutritional advice, education, and research to inform nutrition policy through evidence-based platforms should not come as a surprise. With continuous progress, the department offers undergraduate and postgraduate degree programs. Today, the University Institute of Diet and Nutritional Sciences is a beacon of light that not only produces well-trained health care professionals in the field of nutrition and dietetics but also provides employment opportunities by equipping its graduates with a world-class education. Through its research-based culture, it helps to facilitate critical thinking in its faculty and students and seeks to develop faculty members who are in tune with Global advancement in knowledge.



Bachelor of Dietetics & Nutritional Sciences



Program Duration: 5 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate/ A-Level/Intermediate-F. Sc Pre-Medical or Equivalent with Minimum 60% Marks.
- UOL Entry Test

INTRODUCTION

This 5-Years degree program is precisely designed keeping in view the importance of nutrition and dietetics in sustaining the healthy lifestyle. This course will provide and enable students to cope with the advancement in the field of Dietetics and Nutritional Sciences. The program attains the desired goals through the following:

1. Academic learning through the tutor-led and student-directed approach
2. Integration of academic and practice-based learning
3. Reflective professional skills

CAREER PROSPECTS

The department offers various professional degree programs for the student community to provide them the latest techniques in the field of Diet & Nutritional Sciences worldwide. After completing this program, they can work in public and private sectors.

PRIVATE SECTOR

- Independent Private Practice
- Multinational Food Industry
- Multi-national Companies
- Pharmaceuticls Industry
- Consultant for Private Companies
- Consultant in Private Hospitals
- Airlines and Railways
- Health Care Centers
- Non-Governmental Organizations

PUBLIC SECTOR

- Public Health Departments
- Research and Teaching Institutes
- International Organizations: UNICEF, UNDP, WHO, FAO, World Bank
- Community Development Program



ROAD MAP		TOTAL SEMESTERS 10				TOTAL CREDIT HOURS 172	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English-I (Functional English)	3	English-II (Communication Skills)	3	English-III (Technical Writing & Presentation Skills)	3	Advanced Human Nutrition; Carbohydrates, Lipids and Proteins	3
Introduction to Computer	3	Behavioral and Social Sciences	3	Medical Biochemistry	3	Advanced Human Nutrition; Vitamins and Minerals	3
Anatomy	3	Physiology	3	Institutional Management	3	Dietetics	3
Basic Mathematics	3	Basics of Statistics	3	Fundamentals of Human Nutrition	3	Nutrition and Life Cycle	3
Physical Education and Sports	3	Islamic Studies	3	Principles of Food Sciences	3	Disease Prevention Through Nutrition	3
Biosafety, Patient and Equipment Safety	3	Pakistan Studies	3	Food Processing and Preservation	3	Nutritional Counseling and Diet Therapy	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Metabolic Endocrinology	3	Advanced Clinical Nutrition	4	Nutrition Intervention Planning	4	Nutrition Education	3
Food and Drug Laws	3	Food Toxicology and Additives	3	Sports Nutrition	3	Research Methodology	3
Epidemiology and Public Health	3	Nutritional Assessment and Menu Planning	4	Sociocultural Aspects of Food	2	Principles of Food Service	3
Advanced Dietetics	4	Drug Nutrient Interaction	3	Nutritional Care in Emergency Cases	3	Global Nutritional Issues	3
Fundamental of Microbiology	3	Public Health Nutrition	2	Nutraceuticals and Functional Foods	3	Controversies in Field of Nutrition	3
Proteomics and Nutrigenomics	2			Recent Advances in Human Nutrition	3		
SEMESTER 9			CR. HR.	SEMESTER 10		CR. HR.	
Hospital Based Nutritional Practice-I			6	Hospital Based Nutritional Practice-II		6	
Community Nutrition			4	Practical Dietary Models and Counseling		3	
Nutritional Report Writing			3	Practical Nutritional Practices in Clinical Care		3	
Research Project-I			4	Research Project -II		4	

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

Master of Philosophy in Human Nutrition and Dietetics



Program Duration: 2 Years

Timing: Morning/ Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, or equivalent degree from HEC recognized University/Institute with graduation in followings:
- M.Sc in Food and Nutrition (2 Years)
- Doctor of Dietetics and Nutritional Sciences (5 Years)
- BS (Hons)/ B.Sc. (Hons.) Food Science and Technology (4 Years)
- BS (Hons) Food Science and Technology (4 Years)
- BS (Hons)/ B.Sc. (Hons.) Agriculture-Food Technology (4 Years)
- BS Food Science and Nutrition (4 Years) with Minimum 2.5/4.0 CGPA in semester system or 1st Division / 60% marks in annual system.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

This degree is designed for the Food and Nutrition Sciences graduates who want to excel their career in the field of Human Nutrition and Dietetics. The MPhil program will require successful competition of course and research work along with submission and defense of thesis for the award of MPhil degree.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

CAREER PROSPECTS

After the completion of MPhil Human Nutrition and Dietetics students can work in National and International Organization related to the Nutritional Sciences, Research and Teaching Institutes, Public Health Departments, International Organizations [UNICEF, UNDP, WHO, FAO, World Bank], Non-Governmental Organizations, community development program.



ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Biochemistry & Physiology of Human Nutrition	3	Clinical and Therapeutic Nutrition	2	Research Thesis	6	Research Thesis	6
Laboratory Techniques in Nutrition	3	Human Nutritional Disorders .& Disease Prevention	3				
Nutrition and Metabolism	2	Nutraceuticals and Functional Foods	2				
Public Health and Nutrition	2	Scientific Report Writing	2				
Recent .Advances in Dietetics	2	Designs and Analysis of Experiments for Researchers	3				



Doctor of Philosophy in Human Nutrition and Dietetics



Program Duration: 3 Years
Timing: Morning/ Evening
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BDNS/BS/MS/MPhil in HND/FST or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- UOL Scholastic Aptitude Test
- Pass the interview by the PhD Admissions Committee of Faculty of Allied Health Sciences.

INTRODUCTION

This degree is designed for the Food and Nutrition Sciences graduates who want to excel their career in the field of Human Nutrition and Dietetics. The PhD program will require both course and research work leading to submission and defense of thesis and if successful the award of PhD degree. Modules (Core and Electives) will be based on advanced levels in the selected topics that will provide an in-depth student-faculty interaction.

CAREER PROSPECTS

The graduate of Human Nutrition and Dietetics can work in National and International Organization related to the Nutritional Sciences, Research and Teaching Institutes, Public Health Departments, International Organizations [UNICEF, UNDP, WHO, FAO, World Bank], Non-Governmental organizations, community development program.

ELECTIVES

CLINICAL AND THERAPEUTIC NUTRITION

- Clinical Nutrition and Dietetics
- Complementary Nutrition for Health Promotion
- Professional Dietetics Practices

COMMUNITY NUTRITION AND PUBLIC HEALTH

- Public Health Nutrition
- Nutritional Epidemiology and Research Methods
- Food and Nutritional Security: Policy to Practice

ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Biochemistry & Physiology of Human Nutrition	3	Clinical and Therapeutic Nutrition	2	Maternal and Child Nutrition	3	Recent Advances in Nutrition and Dietetics	3	Research Thesis	30
Laboratory Techniques in Nutrition	3	Human Nutritional Disorders & Disease Prevention	3	Physiology of Digestion and Metabolism	3	Elective I	3		
Nutrition and Metabolism	2	Nutraceuticals and Functional Foods	2	Nutrigenomics and Proteomics	3	Elective II	3		
Public Health and Nutrition	2	Scientific Report Writing	2	Advanced Research Methods	3	Elective III	3		
Recent Advances in Dietetics	2	Designs and Analysis of Experiments for Researchers	3						



HoD's MESSAGE

The Food Science & Technology degree at The University of Lahore focuses on the necessity to equip and canalize the knowledge, attitude, and skills of the students effectively and efficiently to provide quality care to meet the needs of humankind. Students are exposed to challenging opportunities for rewarding careers and suitable positions globally. Throughout the degree program, the students will learn to practice and apply the latest and up-to-date skills and knowledge related to Food Sciences in a compassionate and respectful way that promotes dignity and wellbeing. Graduates will develop the ability to act with professionalism and integrity, and work within agreed professional, ethical, and legal frameworks and processes to maintain and improve standards of food security, processing, quality, and safety. Our faculty continues to grow in stature by contributing evidence-based practice and innovative methods of teaching. The program encompasses packages of modern education, educational tours, and visits to different industries of the country for practical exposure to the students, and to widen their knowledge and experience.

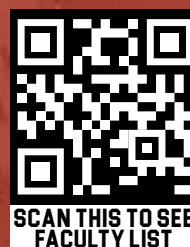
Dr. Shahid Bashir
Associate Professor

MISSION STATEMENT

Our mission is to furnish applicable, leading-edge training in the field of Food Science and Technology, within a supportive framework that values diversity. We strive to create a professional environment for learning and self-development, while focusing on relevant, impactful basic and applied research that proactively addresses challenges important to the world.

INTRODUCTION

The University Institute of Food Science & Technology, is striving hard to provide quality education at undergraduate and graduate levels and develop cutting-edge techniques to meet the national and global challenges in food security and safety. There has been a significant increase in the establishment of the food industry during the last two decades and consequently, the demand for Food Technology graduates has increased tremendously at a national and international level, especially the Gulf countries. Food is a basic essential of life and requires humans to build, repair, keep the body in good working condition and supply fuel for energy. The major thrust of UIFST is the application of Food Science and Technology in handling, processing, and preservation of food to cope with the challenges of the rapidly growing food industry. Aim of UIFST is to be recognized as an excellent institution to provide quality education by producing competent human resource capable of achieving excellence in knowledge dissemination and develop cutting edge techniques to meet the national and global challenges in food processing, food preservation, halal food development, food quality, food security, safety and community wellbeing.





Bachelor of Science in Food Science and Technology

Program Duration: 4 Years
Timing: Morning (Monday-Friday)
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

- Entry Requirements**
- 12 Years of Education, (Higher Secondary School Certificate/A-Level/Intermediate-F.Sc. Pre-medical or F.Sc. Pre-engineering or DAE (food Science and Technology) at least second division with 50% marks
 - UOL Entry Test / Interview is mandatory.

INTRODUCTION

This 4-years degree program is precisely designed keeping in view the importance of food science and technology in our society. This program will provide in depth understanding of food composition & analysis, preservation techniques, processing tools, food safety and nutrition. Furthermore, this degree program will cover courses related to food

engineering, food chemistry, food processing, food preservation, food microbiology, post-harvest management, quality management systems, and human nutrition.

CAREER PROSPECTS

Career opportunities on completion of Food Science and Technology degree are in entrepreneurship, food processing & preservation industries, government & legislative bodies, and educational institutes. Graduated students could secure positions as quality assurance officer, research & development manager, food product sales & marketing representative and Hygiene manager.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 8				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Mathematics/Biology	3	Computer Education	3	English III	3	Food Processing & Preservation	3
Essentials of Biochemistry	3	Basic Agriculture	3	Introduction to Food Science & Technology	3	Food Chemistry	3
Islamic Studies	3	English-II	3	Principles of Human Nutrition	3	Food Service Management	3
English-I	3	Pakistan Studies	3	Languages and Literature	3	Fruit and Vegetable Processing	3
Physical Education and Sports	3	Medical Ethics	3	Food Process Engineering	3	Food Quality Management	3
Basics of Statistics	3	Marketing and Agri. Business	3	Biosafety, Patient & Equipment Safety	3	Research skills	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Cereal Technology	3	Bakery Products Technology	3	Meat Technology	3	Animal protein and sea foods	3
Sugar and Confectionary Technology	3	Post Harvest Technology	3	Food Microbiology	3	Recent advances in food processing	3
Technology of Fats and Oils	3	Dairy Technology	3	Food Biotechnology	3	Food Regulatory Framework and Regulatory Affairs	3
Instrumental Techniques in Food Analysis	3	Food Laws & Regulations	3	Food Packaging	3	Food Plant Layout and Sanitation	3
Beverage Technology	3	Food Product Development	3	Food Business Management	3	Internship and Report Writing*	4
Community Nutrition	3						



Master of Philosophy in Food Science and Technology

Program Duration: 2 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, or equivalent degree from HEC recognized University/Institute with graduation in followings:
- M.Sc in Food and Nutrition (2 Years)
- Doctor of Dietetics and Nutritional Sciences (5 Years)
- B.Sc. (Hons.) Human Nutrition & Dietetics BS (Hons) Food Science and Technology (4 Years)
- BS (Hons)/ B.Sc. (Hons.) Agriculture-Food Technology (4 Years)
- BS (Hons)/ B.Sc. (Hons.) Food Science and Technology (4 Years) with Minimum 2.5/4.0 CGPA in semester system or 1st Division / 60% marks in annual system.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

This degree will enable post graduate students to cope with the rapid advancement in the field of food science and technology.

CAREER PROSPECTS

This professional program is for the student's community to provide them the latest techniques in the field of Food Processing and Food Safety & Security worldwide. After completing this program, they can move further for PhD in Food Science and Tecnology or secure good positions in food industry.



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Food Additives	3	Food Toxicology	3	Research Thesis	6	Research Thesis	6
Food Quality Assurance Management	3	Food Industrial Waste Management	3				
Food Enzymology	3	Advances in Food Packing	3				
Baking Science and Technology	3	Designs and Analysis of Experiments for Researchers	3				



Doctor of Philosophy in Food Science and Technology



Program Duration: 3 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BDNS/BS/MS/MPhil in FST/HND or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- UOL Scholastic Aptitude Test
- Pass the interview by the PhD Admissions Committee of Faculty of Allied Health Sciences.

INTRODUCTION

This degree will enable students to cope with the rapid advancement in the field of product development, food processing industry and food safety and security.

CAREER PROSPECTS

This professional program is for the student's community to provide them the latest techniques in the field of Food Science and Technology worldwide. After completing this program, they can start a career as a researcher and educator and also participate in various outreach programs.



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Food Additives	3	Food Toxicology-I	3	Advanced Food Biotechnology	3	Advanced Food Chemistry	3	Research Thesis	30
Food Quality Assurance Management	3	Food Industrial Waste Management	3	Food Toxicology-II	3	Meat Science	3		
Food Enzymology	3	Advances in Food Packing	3	Starch Chemistry and Technology	2	Recent Advances in Food Science and Technology	3		
Baking Science and Technology	3	Designs and Analysis of Experiments for Researchers	3	Dairy Processing	3	Experimental Design	3		
				Seminar-I	1				



HoD's MESSAGE

University Institute of Medical Laboratory Technology commenced its academic activities at the University of Lahore in 2012 under the umbrella of the Faculty of Allied Health Sciences. Since then, it has grown into one of the best departments within Pakistan, teaching basic as well as advanced laboratory techniques/procedures involved in modern Pathology. The department has robust and skillfully designed course curricula and state-of-the-art laboratories adequately equipped with modern equipment for the teaching/training of our graduate and postgraduate students. We have highly qualified and experienced faculty, including 8 PhDs as permanent full-time faculty members, committed to sharing their professional experiences with the students, which makes it one of the most resourceful departments within Pakistan. I am confident that the academic environment within the department will contribute immensely to the professional grooming of those students who are interested in Medical Laboratory Sciences as their future careers.

Prof Dr Ahmed Bilal Waqar

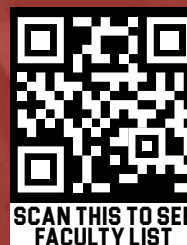
MBBS (Pb), MPhil (Pak), PhD-Mol Path (Japan)
Postdoc-Mol Path (Japan)

MISSION STATEMENT

The University Institute of Medical Laboratory Technology aims to create an academic environment that cultivates lifelong learning by imparting education based on analytical and critical thinking. The core purpose of the department is to produce students equipped with fundamental knowledge, professional attitude, and desired clinical skills as per international healthcare standards.

INTRODUCTION

The department is established with the vision to promote the development and appropriate use of the techniques to promote health care. Our department has the honor to introduce the Bachelor of Medical Laboratory Science (BMLS) Program for the first time in the history of our country. Our BMLS program is well known and appreciated for its excellent educational standards nationwide. UIMLT offers different graduate and postgraduate programs, where students are trained to examine all the data and results critically and to remain alert for potential technical errors. They are also encouraged to participate in the department's ongoing basic research programs and publish their research findings in reputable scientific journals. To initiate a transition to the "real world," they undergo rotations in the UIMLT basic skill laboratory and the first pathological laboratories at the affiliated hospitals of the University of Lahore. They learn to handle and deal with the specimen, bio-safety management, and understand the principles, fundamental skills, and professionalism.



Bachelor of Medical Laboratory Sciences



Program Duration: 5 Years
Timing: Morning (Monday-Friday)
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, HSSC, F.Sc (Pre-Medical) / A-Level or Equivalent with Minimum 50% marks.

INTRODUCTION

This program is introduced for the first time in Pakistan, keeping in view the requirement of the healthcare institutes in the Pathology department. This program will enable students to cope with the rapid advancements in Laboratory Technology.

Note: The University has a policy of full compliance with the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

CAREER PROSPECTS

This professional program aims to equip the student community with the latest techniques employed in Medical Laboratory Technology worldwide. After completing this program, the students will be able to operate modern lab instruments to perform various tests using scientific methods independently to diagnose and treat diseases. Moreover, they can continue their post-graduation in multiple disciplines of Biomedical Sciences.

ELECTIVES

- Medical Mycology
- Advances in Clinical Microbiology
- Cytology
- Advances in Clinical Immunology

ROAD MAP		TOTAL SEMESTERS 10				TOTAL CREDIT HOURS 172	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II (Communication Skills)	3	English III (Scientific Writing)	3	Clinical Microbiology	3
Physiology	3	Psychology	3	Immunology & Microbiology	3	Clinical Immunology	3
Biochemistry	3	Basic of Statistics	3	Haematology	2	Clinical Biochemistry	3
Islamic Studies	3	Computer Education	3	Cell and Tissue Pathology	3	Genomics and Bioinformatics	3
Biosafety, Patient and Equipment Safety	3	Pakistan Studies	3	Molecular Genetics	3	Research Skills	3
English I	3	Medical Ethics	3	Analytical Techniques	3	Medical Virology	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
General Pathology	4	Advances in Hematology	4	Advances in Chemical Pathology	4	Clinical Pathology	4
Endocrinology	4	Advances in Histotechniques	4	Transfusion Medicine	4	*Elective I*	4
Behavioural Sciences	3	Advances in Biochemistry	4	Special Pathology	4	Quality Assurance and Lab Management	4
Epidemiology and Public Health	4	Pharmacology	3	**Clinical Lab Rotation (Hematology and Blood Banking)	4	**Clinical Lab Rotation (Clinical Chemistry & Histopathology)	4
Advanced Clinical Microbiology	3	Advanced Molecular Biology	3				
SEMESTER 9			CR. HR.	SEMESTER 10		CR. HR.	
Advances in Analytical Technique			4	Advances in Molecular Genetics		4	
**Clinical Lab Rotation (Clinical Microbiology)			4	**Clinical Lab Rotation (Molecular Biology)		4	
Research (Synopsis/ Field Work)			4	Research (Lab Work/ Research Report Submission)		4	
Forensic Pathology			4	*Elective II*		4	

Master of Philosophy in Immunology & Molecular Pathology



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, or equivalent degree (in relevant fields) with graduation in the followings:
- M.Sc in Medical Lab Technology (2 Years)
- Doctor of Medical Laboratory Sciences (5 Years)
- BS (Hons) Four Years Medical Lab Technology (4 Years)
- BS (Hons) Bio-Medical Sciences (4 Years)
- Minimum 2.5/4.0 CGPA in the semester system or 1st Division / 60% marks in the annual system.
- UOL Entry Test / Interview is mandatory.

The program aims to generate human resources of molecular pathologists in the field of Immunology, who can contribute to society by serving in the prestigious academic and research institutes around the globe. Since there is a massive demand for immunologists and molecular pathologists, these professionals can pursue their future careers in vaccine development, pharmaceutical companies, research laboratories, university circles, and health care industries within and outside Pakistan.

INTRODUCTION

Understanding the immunological interaction and molecular aspects of different immunological disorders is one of the most significant challenges the scientific world faces in recent times. This program will enable students to cope with the rapid progression in Immunology and Molecular Pathology. It will also equip students with knowledge and expertise to address the immunological interfaces of immunological disorders and pathological human diseases through focused research projects.

CAREER PROSPECTS

Note: The University has a policy of full compliance with the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.



ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
General Virology	3	Immune Disorders	3	Research/ Dissertation	6	Research/ Dissertation	6
General Immunology	3	Vaccinology	3				
Molecular Pathology/ Molecular Biology	3	Biosafety/Bioethics	3				
Diagnostic Techniques/ Instrumentation	3	Biostatistics and Research Methodology	3				





Master of Philosophy in Virology & Molecular Pathology

Program Duration: 2 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, or equivalent degree (in relevant field) with graduation in the followings:
- M.Sc in Medical Lab Technology (2 Years)
- Doctor of Medical Laboratory Sciences (5 Years)
- BS (Hons) Medical Lab Technology (4 Years)
- BS (Hons) Bio-Medical Sciences (4 Years)
- Minimum 2.5/4.0 CGPA in the semester system or 1st Division / 60% marks in the annual system.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

This program is introduced for the first time in Pakistan, considering the emerging viral diseases and their deadly outbreaks during the last couple of decades. Understanding the molecular aspects of these viral infections is one of the most significant challenges the scientific world faces. This program will enable students to cope with the rapid advancement in Virology and Molecular Pathology, and it will also equip students with knowledge and skills to address the interactions of viral and pathological human diseases through focused research projects.

Note: The University has a policy of full compliance with the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

CAREER PROSPECTS

The program aims to generate human resources of molecular pathologists in Virology, who can contribute to society by serving the prestigious academic and research institutes around the globe. There is a massive demand for these professionals in the vaccine, pharmaceutical companies, research laboratories, university circle, and health care industry within and outside Pakistan, where they can pursue their careers.



ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
General Virology	3	Advances in Virology	3	Research/ Dissertation	6	Research/ Dissertation	6
General Immunology	3	Molecular Mechanism of Diseases (Mechanistic Virology)	3				
Molecular Pathology/ Molecular Biology	3	Biosafety/Bioethics	3				
Diagnostic Techniques/ Instrumentation	3	Biostatistics and Research Methodology	3				

Doctor of Philosophy in Immunology & Molecular Pathology



Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BMLS/BS/MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in the semester system or 60% marks in the annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given a waiver in coursework as per HEC policy.
- UOL Scholastic Aptitude Test
- Pass the interview by the PhD Admissions Committee of Faculty of Allied Health Sciences.

INTRODUCTION

Comprehending immunological interactions between host and diseases is an utmost complex phenomenon and is one of the most significant challenges the scientific/research world faces in recent times. This program will enable students to cope with expeditious progression in Immunology and Molecular Pathology. It will also equip students with knowledge and skills to address the immunology interfaces of immunological disorders and pathological human diseases through focused research projects.

CAREER PROSPECTS

Our aim is to generate human resources for molecular pathologists in the field of Immunology, who can contribute to society by serving in the prestigious academic and research institutes around the globe. Since there is a considerable demand for immunologists and molecular pathologists, these professionals can pursue their future careers in the vaccine development, pharmaceutical industries, research laboratories, university circles, and health care industries within and outside Pakistan.



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
General Virology	3	Immune Disorders	3	Molecular Genetics	3	Immune System Disorders	3	Research Thesis	30
General Immunology	3	Vaccinology	3	Advances in Immunology	3	Advances in Vaccinology	3		
Molecular Pathology/ Molecular Biology	3	Biosafety/ Bioethics	3	Advances in Molecular Pathology/ Molecular Biology	3	Advances in Biosafety/ Bioethics	3		
Diagnostic Techniques	3	Biostatistics	3	Advances in Diagnostic Techniques/ Instrumentations	3	Research Methodology	3		





Doctor of Philosophy in Virology & Molecular Pathology

Program Duration: 3 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BMLS/BS/MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in the semester system or 60% marks in the annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given a waiver in coursework as per HEC policy.
- UOL Scholastic Aptitude Test
- Pass the interview by the PhD Admissions Committee of Faculty of Allied Health Sciences.

INTRODUCTION

This program is introduced for the first time in Pakistan, considering the emerging viral diseases and their deadly outbreaks during the last couple of decades. An understanding molecular aspect of these viral infections is the greatest challenge faced by scientists/researchers these days. This course will enable students to cope with the rapid advancement in Virology and Molecular Pathology, and it will also train them to address the interactions of viral and pathological human diseases through focused research projects.

CAREER PROSPECTS

The program aims to generate a human resource of molecular pathologists in Virology who can contribute to society by serving in the prestigious academic and research institutes around the globe. There is massive demand for these professionals in vaccine development, pharmaceutical companies, research laboratories, university circle, and health care industries within and outside Pakistan where they can pursue their careers.



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
General Virology	3	Advances in Virology	3	Molecular Genetics	3	Molecular Virology	3	Research Thesis	30
General Immunology	3	Molecular Mechanism of Diseases	3	Advances in Immunology	3	Mechanistic Virology	3		
Molecular Pathology/ Molecular Biology	3	Biosafety/Bioethics	3	Advances in Molecular Pathology/ Molecular Biology	3	Advances in Biosafety/Bioethics	3		
Diagnostic Techniques/ Instrumentation	3	Biostatistics	3	Advances in Diagnostic Techniques/ Instrumentation	3	Research Methodology	3		





HoD's MESSAGE

University Institute of Public Health envisions to provide a diverse platform for research and quality education. We are the only institute in the province that offers such a range of public health programmes accredited by all the regulatory authorities from bachelors to Ph.D. level. The unique feature of our Public Health programme is that our graduates identify the obstacles and envisage the leadership qualities. We create leaders who share command of the latest technology and the most current public health approaches, who are knowledgeable through learning from their experiences, and utilize these skills to create new opportunities for improvement in health department. Our Program offers a customized curriculum to meet the demands of the public health and medical industry. At University Institute of Public Health, we have a very good culture of research and experiential learning. I welcome and invite you all to visit and interact to explore more about public health.

Prof. Dr. Abdul Majeed Akhtar

Director

University Institute of Public Health
MBBS, MCPS, DTCD, DPH, MFPH (UK), Ph.D. (UVAS)

MISSION STATEMENT

University vision is to become a center of excellence for teaching and research in Public Health. We aim to accomplish a benchmark level through:-

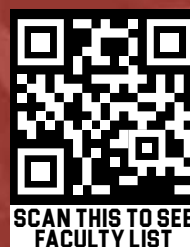
- Specialized training and educational opportunities designed to address the evolving needs of the health system.
- Achieving brilliance by integrating both academics and research with extraordinary practice opportunities.
- Promoting creative and innovative interdisciplinary research.
- Promoting collaboration and partnership to address emerging Public Health problems.
- Enhancing the capacity of current public health professionals and infrastructure to respond to public health challenges.

INTRODUCTION

The Public Health activities include a wide range of efforts to identify, prevent and combat threats to the health of the community/ population.

ESSENTIAL PUBLIC HEALTH SERVICES INCLUDE:

1. Monitoring the health status of the community.
2. Investigating the epidemics, community based health problems, health hazards of flooding and earth quake.
3. To provide awareness and education to the people regarding health issues.
4. Mobilize partnership between health physicians and public health practitioners to solve community based health problems.
5. To support policy makers & planners for the achievement of public health interventions.
6. To enforce laws, rules & regulations for the public health safety and protection.
7. To make a link between community health workers and the public health practitioners.
8. Ensure to hire the skilled and competent public health workforce for educating the educators.
9. To evaluate effectiveness, accessibility and quality of health services.
10. To conduct innovative research and its applications in public health.



SCAN THIS TO SEE
FACULTY LIST





Bachelor of Science in Public Health

Program Duration: 4 Years

Timing: Morning (Monday - Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, F.A/FS.c with minimum 50% marks
- UOL Entry Test is mandatory.

INTRODUCTION

Bachelor of Science in Public Health (BSPH) is a four years (08-semester) program during which a student learns about different aspects of public health through a course work of 136 credit hours to be completed in eight semesters. A semester is comprising of 16-20 weeks. There is midterm examination after 8 weeks of study and final examination after 16 weeks of study.

This programme trains students to become public health practitioners who work in government, at non-profits, or in industry to work with communities, implement and evaluate public health programs, and/or help raise public awareness of best health care practices.

CAREER PROSPECTS

1. Solve health-related problems within the financial, socio-cultural, environmental, ethical and political framework of Pakistan and its surrounding region.
2. Design, conduct, analyze and interpret the results of relevant studies, projects and programmes.
3. Plan, manage, and evaluate interventions in the field of public health.
4. Communicate public health messages to diverse audience effectively using diverse tools of communication.
5. Advocate simple public health interventions and practices with equity.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Health Promotion	3	Pakistan Studies	3	Professional Ethics	3	Disaster Management	3
Islamic Studies	3	English II	3	Public Health Nutrition	3	Basics of Biostatistics	3
English I	3	Introduction to Global Health	3	Research Skills	3	Addiction and Social Rehabilitation	3
Introduction to Epidemiology	3	Medical Anthropology	3	Basic Concepts of Hospital Management	3	Health Professional Education	3
Basic Computer Skills	3	Mental Health Issues	3	Environmental and Occupational Health	3	Public health Principles and Practices	3
Introduction to Psychology	3	Primary Health Care (PHC)	3	English III	3	Epidemiological Report Writing	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Basic Mathematics	3	Concept of Health and Disease	3	Reproductive Health	3	Microbiology	3
Life Sciences Biology	3	Community Pediatrics	3	Health Policy and Management	3	Entomology	3
Sociology of Health and Disease	3	Fundamental principles of infectious diseases	3	Health Planning	3	Parasitology	3
Personal Hygiene	3	Communicable and Non-Communicable Diseases	4	Food Safety	3	Research Project	6
Population Dynamics	3	Introduction to Quality management in Healthcare	3	Health Marketing	3		
				School Health	3		



Master of Public Health

Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- MBBS/BDS registered with PMC, with minimum 1st division or 60% marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The University Institute of Public Health is a pioneer Institute of the University of Lahore among private sector Universities for the award of Master of Public Health since 1999. It is a two years post graduate professional degree program comprising of 4-semesters, having total 60 credit hours. During the first three semesters, the course work of 50 credit hours is studied and in the fourth semester 10 credit hours of research and thesis/dissertation has to be completed. Public Health is a joint venture of public health practitioners and organized by the society, to protect, promote and restore the health of the public at large scale through collective social efforts. Public Health paradigm changes with the changing needs, technologies, values and the objectives for the reduction in the magnitude of disease, prevention of early deaths and to relieve the community from discomfort, disability and sufferings. The teaching faculty is highly qualified, trained and specialized. The program is approved by PMC.

CAREER PROSPECTS

Students learn through a wide variety of courses, exercises, assignments and skills that help them in the problem solving situations faced by the community/society. After qualifying the MPH degree, they are eligible for promotion in Public and private sector Institutions.



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 60	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Foundation of Public Health	3	Applied Epidemiology & Biostatistics	3	Environmental Health	3	Research Work / Thesis	10
Introduction to Epidemiology	3	Communicable and Non- Communicable Disease Control	3	Occupational Health	3		
Basic Biostatistics	3	Health Management & Administration	3	Research Module-2	2		
Health Promotion	3	Reproductive & Child Health	4	Health Policy & Planning	3		
Health System	4	Demography & Population Dynamics	3	On job practicum/internship	3		
Computer Skills/Application in Public health	2	Research Module-1	2				





Master of Philosophy in Public Health

Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/17 Years of Education, 5/4 Years degree (Pharm.D, BSN, DPT, DDNS, DMLS, MID, DOVS, DVM) OR
- 16 Years of Education, BS 4 Years degree (Biologoy, Microbiology, Zoology, Physiology, Biochemistry, Human Nutrition or equivalent) OR
- 16 Years of Education, BS 4 Years degree (Public Health, Sociology, Clinical Psychology, Anthropology, Polpulation Sciences, Managment Sciences, Administrative Sciences & Biostatistics
 - or equivalent from HEC Recognized
 - With Minimum 2.5/4.0 CGPA or 60% marks in annual system
- UOL Entry Test / Interview is mandatory.

starts writing thesis. On the completion of thesis during the 4th semester an external examiner is appointed by the competent authority for the evaluation of the quality of thesis. Both external and internal examiners have to evaluate and declare the result unanimously which is verified by the Director, University Institute of Public Health (UIPH) which is forwarded to the Controller of examinations for result declaration. A Student has to submit six copies of his/her thesis to the Director UIPH for onward transmission to different concerned departments like library etc. A Student is allowed to get his degree before, during and/ or after Convocation.

CAREER PROSPECTS

After the completion of M.Phil. in Public Health, the candidate may join private, or public teaching institution and/or any Non-Government Organization (NGO) in the country or abroad. He / she may continue his/her study toward Ph.D. through inland and/or international university. His future career would be to serve community as a public health physician/ community physician.

INTRODUCTION

M.Phil. is a two years (4-semesters) program of 36 credit hours during which a student learns about different aspects of public health through a course work of 24 credit hours to be completed in three semesters in addition to research and thesis of 12 credit hours. A semester is comprising of 16-20 weeks. There is midterm examination after 8 weeks of study and final examination after 16 weeks of study. There are assignments of each subject in relation to lectures delivered. A synopsis is a proposal and road map for the future research and thesis dissertation. After the approval of synopsis by the supervisor I & II, it needs approval from the Board of Studies (BOS) and Institutional Review Board (IRB). In the 4th semester a student under the supervision of supervisor I & II conducts research and



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04		TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3-4	CR. HR.
Public Health Principals and Practices	3	Demography	3	Research and Thesis	12
Biostatics and Computer Application	3	Principles of Public Health Policy Planning & Administration	3		
Introduction to Epidemiology	3	Environmental and Occupational Health	4		
Health Education	3	Synopsis and Thesis Writing	2		

Doctor of Philosophy in Pubic Health



Program Duration: 3 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BS/MPH/MS/MPhil/FCPS or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver of 30 credit hours in coursework as per HEC policy.
- UOL Scholastic Aptitude Test/Interview is mandatory.

INTRODUCTION

The Ph.D. program is comprising of a course work of two semesters (18 Credit Hours) and research work of four semesters (30 Credit Hours). The research and thesis/dissertation has to be completed from 3rd through 6th semester which shall be supervised by the supervisory committee from related fields of expertise as per rules and regulations approved by UOL, HEC.

CAREER PROSPECTS

The predominant aim is to provide opportunity to the scholars to acquire essential knowledge, skills through creative and innovative research, for the dissemination of knowledge to the public health providers, policy makers and planners.



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Public Health Principals and Practices	3	Demography	3	Advanced Epidemiology	3	Public Health Administration	3	Research and Thesis	30
Biostatistics and Computer Application	3	Principles of public health policy-planning and administration	3	Qualitative and Quantitative Research Methods	3	Public Health Ethics	3		
Introduction to Epidemiology	3	Environmental and occupational health	4	Quality Management in Health Care	3	International Health	3		
Health Education	3	Synopsis and Thesis Writing	2	Communicable and Non-Communicable Diseases	3	Reproductive Health	3		



Department of Health Professional Technologies



HoD's MESSAGE

It gives me an immense pleasure to welcome students on this new voyage, a step towards university life at The Department of Health Professional Technologies (D.H.P.T) within the Faculty of Allied Health Sciences (FAHS) at UOL. We are dedicated to provide clinical and academic excellence in teaching and research. The ultimate goal of this department is to produce clinically trained allied healthcare professionals who are outfitted with highest ethical standards and clinical knowledge to work as a part of healthcare team.

Dr. Usra Naeem

PhD, University of Nottingham (UK)
Assistant Professor/ Head of Department
DHPT, FAHS.
The University of Lahore

MISSION STATEMENT

To produce competent allied health professionals who are clinically trained to provide medical care for people of all age.

- To produce clinically trained healthcare professional who will work across different departments in public and private hospitals. Such as, Surgery, Anesthesia, Operation Theatres, Intensive Care Units, Emergency Departments, Trauma and Burn Centers, Gynae wards, Pediatrics wards etc.
- To provide state of the art educational and clinical training and produce professionals who will provide integrated quality care for patients of all ages and morbidities.

INTRODUCTION

Department of Health Professional Technologies (DHPT) established in September 2014 under the umbrella of Faculty of Allied Health Sciences (FAHS). The foundation milestone of this department is launching seven disciplines i.e., BSAT, BSOTT, BSRT, BSET, BSICT, BSCCT & BSST in UOL. Graduates of BS in Operation Theatre Technology (BSOTT) will be able to work in Operation Theatres. Graduates of BS in Respiratory Therapy (BSRT) will cover general pulmonary wards, adult Intensive Care Units, Neonatal and Pediatric Critical Care Units. Graduates of BS in Emergency Technology (BSET) deals with patients presenting in emergency departments, Trauma and Burn Centers etc. Graduates of BS in Intensive Care Technology (BSICT) and BS in Critical Care Technology (BSCCT) deals with patients in Intensive Care Units. BS in Surgical Technology deals with patients in operating room, ICU and Emergency department. Graduates of BS in Anesthesia Technology (BSAT) will be able to work with Anesthesiologists team and deals with anesthetic drugs, anesthesia machine, mechanical ventilators etc. They will also be able to work in ICUs and pain centers.



Bachelor of Science in Operation Theater Technology



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / A-Level/Intermediate-F.Sc Pre-Medical or Equivalent with Minimum 50% marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

Operation Theatre Technologist is an important member of Operation Theatre team and plays a key role in the Operation Theatre. They are not only concerned with equipment's/ instrument but also with the patient's life and health in many ways. The graduates of this program will provide

services in Life Saving and Critical Places i.e., Emergency O.T., Oxygen supply departments, Operation Theatres, CSSD, Casualty, Disasters, plaster rooms, burn and plastic OTT etc. They also include staff in sterilization services and OT managers.

CAREER PROSPECTS

- Tertiary Care Hospitals OTTs
- CSSD
- Surgical ICUs
- Private Hospitals
- Dental and Maxio-facial OTT
- Research Centers

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 8				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	English III	3	Advanced anesthetic technique	4
Physiology	3	Psychology	3	Basic technique of Anesthesia	3	Basic Intensive Care	4
Biochemistry	3	Basic of Statistics	3	Pharmacology	3	Infection Control	4
Islamic Studies	3	Computer Education	3	Medical Terminology and Record Keeping	3	Electronics and technology used in surgery and anesthesia	3
Biosafety- Patient and Equipment Safety	3	Pakistan Studies	3	Basics of surgical procedures	3	Research Skills	3
English I	3	Medical Ethics	3	Central sterile supply Department (CSSD procedures)	3		
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Mathematics	3	Specialized surgery and anesthesia I	5	Specialized surgery and anesthesia II	3	Skills Based Outcomes And Monitorable Indicators For Operation Theatre Technologist/	3
Teaching methodology and community medicine	3	Laparoscopic Surgical Procedures	3	CSSD Procedures	3	OTT internship	3
Directed Clinical Education I	3	Directed clinical education II	4	Clinical practice	3	Clinical seminar	3
Pathology	3	Applied medicine	3	Directed clinical education III	3	Endoscopes and its uses	3
Surgical Pharmacology	3			Evidence based practice	3	Diagnostic Procedures	3
Microbiology	3					Research project	6





Bachelor of Science in Respiratory Therapy

Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / A-Level/Intermediate-F.Sc Pre-Medical or Equivalent with Minimum 50% marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The aim of program is to produces clinically trained Respiratory Therapists who will be able to identify, assess, evaluate, manage, treat, educate and help to prevent respiratory disorders. This degree program will cover respiratory disorders their management, including cardiopulmonary care of ventilated and non-ventilated patients. This program produces the

graduates who are well equipped with research knowledge and clinical skills. Respiratory therapists work in hospital, clinics, pulmonary function lab, sleep study lab, cardiopulmonary rehabilitation centers and nursing homes.

CAREER PROSPECTS

- Government hospital and Private Hospitals
- Nursing Homes
- ICUs
- Research Centers

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 8				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	English III	3	Advanced Mechanical Ventilation	3
Physiology	3	Psychology	3	Cardiopulmonary Diseases	3	Advanced Arterial Blood Gases	3
Biochemistry	3	Basic of Statistics	3	Pharmacology	3	Pulmonary Function Test	3
Islamic Studies	3	Computer Education	3	Respiratory Care Assessment	3	Pediatric Respiratory Care	3
Biosafety- Patient and Equipment Safety	3	Pakistan Studies	3	Basics of Mechanical Ventilation	3	Medical Gases, Aerosol, and Humidity Therapy	3
English I	3	Medical Ethics	3	Basics of Arterial Blood Gases	3	Research Skills	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Mathematics	3	Application of cardiopulmonary diagnostics and monitoring	4	Advanced health assessment	4	Advanced practice in respiratory care	3
Microbiology	3	Respiratory therapy medical technology	3	Pulmonary rehabilitation	3	Seminar: Updates and current developments	3
Teaching methodology and community medicine	3	Supervised Clinical Practice	4	Basic & advanced life support	3	Advanced clinical practice	3
Basic pathology	3	Lung expansion therapy/ bronchial hygiene	4	Advanced pharmacology in respiratory care	3	Research project	6
Pediatric/ Perinatal pathophysiology and critical care	3			Special respiratory care	3		
Cardiorespiratory embryology	3						

Bachelor of Science in Anesthesia Technology



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / A-Level/Intermediate-F.Sc Pre-Medical or Equivalent with Minimum 50% marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The aim of BS in Anesthesia technology is to equip students with relevant professional knowledge, clinical skills, techniques and ethical values to enable them to work in Anesthesia department of any private and public

hospitals. They will be able to handle anesthesia machine, mechanical ventilators, anesthesia drugs, oxygen delivery devices etc. Graduates of this program will be able to identify, assess, evaluate, manage, treat, educate and help prevent anesthesia complications.

CAREER PROSPECTS

- Government hospital/OT, ICU, CCU
- Private Hospitals
- Nursing Hospitals
- Clinical coordinators

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 8				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	English III	3	Applied Anesthesia	3
Physiology	3	Psychology	3	Anesthetic drugs	3	Basic Intensive Care	3
Biochemistry	3	Basic of Statistics	3	Anesthesia Equipment	3	Pediatric Anesthesia	3
Islamic Studies	3	Computer Education	3	General Medicine	3	Basic Anesthesia skills	3
Biosafety- Patient and Equipment Safety	3	Pakistan Studies	3	Medical terminology and record keeping	3	Perioperative Patient Care	3
English I	3	Medical Ethics	3	Infection control	3	Research Skills	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Mathematics	3	General Medicine-II	4	Epidemiology and Public Health	3	Applied Anesthesia II	3
Microbiology	3	General Surgery	3	Pre and Post-operative patient care	3	Anesthesia for Obstetric surgeries	3
Teaching methodology and community medicine	3	Anesthesia and coexisting diseases	4	Anesthesia for Cardiothoracic Surgery	3	Clinical Seminar: Updates and current developments	3
Basic pathology	3	Pediatric Anesthesia-II	4	Anesthesia Complications and Management	4	Anesthesia for Dental, Maxillofacial, Head and Neck Surgery	3
Physics related to Anesthesia	3			Supervised Clinical Practice	3	Research Project	6





Bachelor of Science in Emergency Technology

Program Duration: 4 Years
Timing: Morning (Monday-Friday)
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / A-Level/Intermediate-F.Sc Pre-Medical or Equivalent with Minimum 50% marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The aim of Bachelor of Science in Emergency Technology (BS-ET) program is to produce graduates in Emergency Sciences should enable the student to excel in managing medical and surgical emergencies makes the scope very broad in hospitals as all hospitals need such personnel to run their emergency departments. They can be employed to work in any

natural disaster situation like earthquakes, floods and displaced persons rehabilitation and management. They can become important members of disaster management and build active teams perpetually in a state of preparedness to meet any natural disaster.

CAREER PROSPECTS

- Government hospital/ Surgical ICU, CCU, Emergency department
- Private Hospitals
- Nursing Hospitals
- Rehabilitation Centers
- Trauma Centers

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 8				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	English III	3	Trauma Emergency-I	3
Physiology	3	Psychology	3	Disaster Management	3	Neonatal emergency and intensive care	3
Biochemistry	3	Basic of Statistics	3	Pharmacology	3	Obstetrical Emergency	3
Islamic Studies	3	Computer Education	3	Basic & Advance Life Support	3	Diagnostic imaging	3
Biosafety- Patient and Equipment Safety	3	Pakistan Studies	3	Transportation of Critical ill Patient	3	Clinical Practicum	3
English I	3	Medical Ethics	3	Shock Management	3	Research Skills	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Mathematics	3	Cardiovascular Emergency	4	Burns & Toxicology	3	Disaster Management	4
Microbiology	3	Emergency Skills in special disease	4	Fundamental of Infections	4	Seminar: Updates and current developments/ Advance Principals and Techniques	3
Teaching Methodology and community medicine	3	Trauma Emergency –II	4	Applied Physics and Engineering Sciences	4	Procedures and Therapeutic Interventions	3
Basic Pathology	3	Surgical Emergency – I	3	Surgical Emergency – II	3	Research project	6
Patient and Equipment Safety	3			Forensic Medicine	4		
Pathology	3						



Bachelor of Science in Critical Care Technology

Program Duration: 4 Years
Timing: Morning (Monday-Friday)
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / A-Level/Intermediate-F.Sc Pre-Medical or Equivalent with Minimum 50% marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The aim of Bachelor of Science in Critical Care Technology (BS-CCT) program is to provide quality training to students who will deal with critically ill patients. Candidates are trained to work in Critical Care Units (CCUs) and monitor patients. They are actively involved in the

management of critically ill patients and perform life-saving procedures under supervision of a consultant. The course also trains candidates to provide first-aid to patients in the absence of a certified medical professional. Training is also provided to handle a variety of injuries, physical ailments, and to transport patients to external facilities for extended treatment such as burn and trauma injuries

CAREER PROSPECTS

- Government hospital/ICUs
- Private Hospitals
- Trauma Centers
- Clinical coordinators
- Research Center

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP				TOTAL SEMESTERS 8		TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	Principles and techniques in Intensive care unit	3	Transport of critically ill patient	3
Physiology	3	Psychology	3	English III	3	Neonatal emergency and intensive care	4
Biochemistry	3	Basic of Statistics	3	Pharmacology	3	Emergency Skills in special disease	4
Islamic Studies	3	Computer Education	3	Medical equipment handling	3	Diagnostic Imaging	4
Biosafety- Patient and Equipment Safety	3	Pakistan Studies	3	Fundamental of infection prevention and control	3	Research Skills	3
English I	3	Medical Ethics	3	Cardiovascular emergency	3		
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Microbiology	3	Drug therapy in critical care	4	Mechanical Ventilation Clinical	3	Law and legal issues	3
Teaching methodology and community medicine	3	Medical and surgical emergencies I	4	Medical and surgical emergencies II	4	Trends in emergency and medical services	3
Mathematics	3	Diagnostic Procedures	3	Pediatric perinatal pathophysiology and critical care	3	Seminar: Updates and current developments	3
Basic and advanced cardiac life support	3	Supervised Clinical Practice	4	Ambulance Operations	3	Advanced clinical practice	3
Basic Pathology	3			Obstetrical emergency and intensive care	3	Research Project/Final Project	6





Bachelor of Science in Intensive Care Technology

Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / A-Level/Intermediate-F.Sc Pre-Medical or Equivalent with Minimum 50% marks.
- UOL Entry Test / Interview is mandatory.

course also trains candidates to provide first-aid to patients in the absence of a certified medical professional. Training is also provided to handle a variety of injuries, physical ailments, and to transport patients to external facilities for extended treatment such as burn and trauma injuries.

CAREER PROSPECTS

- Government and Private hospitals/ Surgical ICU, CCU
- Nursing Homes
- Trauma Centers
- Research Centers

INTRODUCTION

The aim of Bachelor of Science in Intensive Care Technology (BS-ICT) is to provide quality training to students who will deal with critically ill patients. Candidates are trained to work in Intensive Care Units (ICUs). They are actively involved in the management of critically ill patients and perform life-saving procedures under supervision of a consultant. The

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 8				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	Principles and technique in Intensive care unit	3	Transport of critically ill patient	3
Physiology	3	Psychology	3	English III	3	Neonatal emergency and intensive care	4
Biochemistry	3	Basic of Statistics	3	Pharmacology	3	Emergency Skills in special disease	4
Islamic studies	3	Computer Education	3	Medical Equipment handling	3	Diagnostic Imaging	4
Biosafety-Patient and Equipment Safety	3	Pakistan Studies	3	Fundamental of infection prevention and infection control	3	Research Skills	3
English I	3	Medical Ethics	3	Cardiovascular emergency	3		
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Microbiology	3	Clinical Training – I	3	Clinical Training – II	3	Shock Management	3
Basic and advanced cardiac life support	4	Forensic medicine	4	Fundamental of Infections Prevention & Control	3	Law & Legal Issues	3
Mathematics	3	Surgical Emergency & Intensive Care – I	4	Neonatal & Pediatric Emergency & Intensive Care	3	Seminar: Updates and current developments/ Advance Principals and Techniques	3
Pathology	3	Burns & Toxicology	4	Surgical Emergency & Intensive Care – II	3	Procedures and Therapeutic Interventions	3
Teaching methodology and community medicine	3			Obstetrical Emergency & Intensive Care	3	Research project	6

Bachelor of Science in Surgical Technology



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / A-Level/Intermediate-F.Sc Pre-Medical or Equivalent with Minimum 50% marks.
- UOL Entry Test / Interview is mandatory.

institution. Surgical Technologist can work as manager, as first assistant surgeons in surgery, as infection control team and quality manger and as CSSD managers.

CAREER PROSPECTS

- Government hospital/OT, Surgical ICU
- Private Hospitals
- Academic Posts
- Research centers

INTRODUCTION

The Scope of surgical technologists has increased considerably in recent times. Surgical technologists work in the operation theater to assist surgeries. They can work in Operating Room, Intensive Care Units and Emergency Department & in field of research, education and training

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 8				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	English III	3	Principle of Management	3
Physiology	3	Psychology	3	Basic techniques of anesthesia	4	Surgical Instruments & Equipment – II	4
Biochemistry	3	Basic of Statistics	3	Surgical Instruments & Equipment– I	4	Infection Control and Waste management	4
Islamic Studies	3	Computer Education	3	Sterilization and disinfection	4	General Surgery	4
Biosafety- Patient and Equipment Safety	3	Pakistan Studies	3	Medical terminology and Record Keeping	3	Research Skills	3
English I	3	Medical Ethics	3				
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Mathematics	3	Clinical Practice II	4	Neurosurgical Procedures	3	Orthopedic Surgical Procedures	3
Clinical Practice I	3	Biosafety and Quality Assurance	4	Pediatric Surgical Procedures	4	Diagnostic Procedures	3
Pharmacology	3	Anesthesia and intensive care	4	Cardiopulmonary Surgical Procedures	4	Endoscopes and its uses	3
Microbiology	3	Professionalism and Values	3	Gynecological and Obstetric Procedures	4	Advanced clinical practice	3
Teaching methodology and community medicine	3					Research project	6
Pathology	3						





HoD's MESSAGE

Department of Rehabilitation Sciences are the constitutional part of Allied health sciences at the University of Lahore. Department of Rehabilitation Sciences (DRS) offering the Undergraduate programs including BS. Speech and Language Pathology, BS audiology, BS. Occupational Therapy, BS. Orthotics and Prosthetics, BS. Rehabilitation Sciences and Postgraduate program in Master of Science in Speech Language Pathology/ Hearing Sciences (Audiology). The Department of Rehabilitation Sciences (DRS) within the Division of Allied Health Sciences (AHS) at The University of Lahore is dedicated to clinical and academic excellence in teaching and research. The ultimate goal of the DRS is to produce medical professionals outfitted with highest standards in creativity, transfer and application of knowledge dissemination to address issues of our time. Department is providing students with an outstanding education, as well as to providing a foundation for leadership in management and supervision, research and clinical specialization in the field of rehabilitation sciences.

Dr M.Sikander Ghayas Khan

PhD, MBBS, MS-SLP, M.Phil. Biochemistry

MISSION STATEMENT

To produce competent allied health professionals to meet local, regional and national needs and to develop reactive practitioners, capable of effective, critical evaluation and analysis with effective interpersonal and clinical skills.

- To develop reflective and capable practitioners with efficient interpersonal and clinical skills.
- Produce professionals, who's collaborate with other health care professions to provide integrated, quality care for patients.

INTRODUCTION

Department of Rehabilitation Sciences (DRS) established in September 2021 under the umbrella of Faculty of Allied Health Sciences (FAHS). The foundation milestone of this department is launching six disciplines (BSSLP, BS Aud, BSOPT, BSRS, BSOT& MSSLHS) in UOL. BS Audiology deals with hearing, balance related disorders and rehabilitation. BSSLP (BS speech & Language Pathology) deals with communication disorders. BSOT (BS Occupational Therapy) prevent disability. BSRS (BS in Rehabilitation Sciences) deals with the Rehabilitation of long term patients , BSOPT (BS in orthotics and prosthetics technology) deals with the making of artificial limbs and supportive devices. All these disciplines will increase professionals towards different treatments in hospitals, rehabilitation centers and health care institutes and introduce new advancement of skills with expertise of Rehabilitations. Post- graduates of MS-SLHS will be able to identify, assess, evaluate, manage, treat, educate and help to prevent speech language and hearing and other communication and swallowing disorders. Degrees are designed to help students to apply principles of evidence-based practice to their clinical services delivery.



Bachelor of Science in Speech Language Pathology



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / A-Level/Intermediate-F.Sc Pre-Medical or Equivalent with Minimum 50% marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The aim of Speech-Language Pathology program is to produce graduates in the country of a master level who will be competent to identify, assess, evaluate, manage, treat, educate and help to prevent language, speech, voice, fluency, cognitive, and other related communication disorders and swallowing Problems. This degree program will cover communication disorders due to neurological disorders, hearing impairment, language learning disabilities, cerebral palsy, developmental delay, autism, cleft

palate, brain injuries, feeding and swallowing difficulties. This program produces the graduates having research knowledge and skills. On the bases of knowledge and skills they will be able to do the evidence-based practice..

CAREER PROSPECTS

After successful completion of 4 years degree offered at University of Lahore, the SLP graduates will be carried to do their independent private clinical practices, or will be able to enroll in master & PhD programs. In addition to private clinical practice, speech language pathologists also have employment options at:

- Government Hospitals
- Private Hospitals
- Universities
- Rehabilitation Centers for hearing impaired for children
- School & Colleges
- Government Agencies
- Special education school & colleges
- SPL's referred from other professionals as well i.e Neurologist, Pediatrician, ENT, Audiologist.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP	TOTAL SEMESTERS 8				TOTAL CREDIT HOURS 136		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II (Phonetics and phonology)	3	Behavior Management	3	Speech and Language Development	3
Physiology	3	Psychology	3	Speech Sciences	3	Pharmacology	3
Biochemistry	3	Basics of Statistics	3	Basic Pathology in communication	3	Developmental pediatric	3
Islamic Studies	3	Computer Education	3	Evidence Based Practice	3	Diagnostics	3
Biosafety/ Patient and Equipment safety	3	Pakistan Studies	3	English III (Report Writing)	3	Adult Neurogenic Communication Disorders	3
English I	3	Medical Ethics	3	Neural Basis of Speech language and Hearing	3	Clinical Management	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Neuroanatomy and Embryology	3	Otorhinolaryngology	3	Resonance, Craniofacial Disorders-II	3	Clinical Professional Knowledge	3
Fluency & Fluency Disorders	3	Articulation and Phonological Disorders	3	Hearing Science	3	Applied Medicine	3
Clinical Linguistics	3	Swallowing Disorder-II	3	Alternative & Augmentative Communication	3	Speech Language Pathology- Sensory	3
Swallowing Disorder-I	3	Resonance, Craniofacial Disorders-I	3	Language & Language Disorders	4	Research Project/Final Project	6
Motor Speech Disorders in Adults	3	Psychiatry	3	Voice & Voice Disorders	3		
Basic Pathology	3						



Bachelor of Science in Audiology



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / A-Level/Intermediate-F.Sc Pre-Medical or Equivalent with Minimum 50% marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The aim of Bachelors of Science in Audiology (BS-AU) program is to produce graduates in the country of graduation level who will be competent to identify, assess, evaluate, manage, treat, educate and help to prevent Hearing Disorders. This degree program will cover Hearing and balancing disorders their management. This program produces the graduates having research knowledge and skills. On the bases of knowledge and skills they will be able to do the evidence-based practice.

CAREER PROSPECTS

After successful completion of 4 years degree offered at University of Lahore, the graduates will be carried to do their independent private clinical practices, or will be able to enroll in master & PhD programs. In addition to private clinical practice, audiologists also have employment options at:

- Government Hospitals
- Private Hospitals
- Universities
- Rehabilitation Centers for hearing impaired
- School & Colleges
- Government Agencies
- Special education school & colleges for children

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 8			TOTAL CREDIT HOURS 136		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	English III	3	Balance Assessment	3
Physiology	3	Psychology	3	Audiological Assessment and Disorders	3	Amplification Devices/ Measurement and Instrumentation	3
Biochemistry	3	Basic of Statistics	3	Acoustics, Auditory Perception , Psychoacoustic	3	Pharmacology in Audiology	3
Islamic Studies	3	Computer Education	3	Basic Audiology Practice	3	Audiological Rehabilitation	3
Biosafety- Patient and Equipment Safety	3	Pakistan Studies	3	Audiological Theory and practice/Clinical Audiology	3	Audiological Practice	3
English I	3	Medical Ethics	3	Research Skills	3	Geriatric Audiology /Advance Audiology	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Pharmacology in Audiology	3	Medical Audiology II	3	Hearing Aids	3	Implantable Devices	3
Medical Sociology	3	Basic Electronics	2	Advance Audiological Rehabilitation	3	Seminar: Updates and Current Development	3
Neuroanatomy and Embryology	3	Pediatric Audiology	3	Balance Disorders and Management	3	Advance Clinical Practice	3
Basic pathology	3	Clinical Audiology	3	Geriatric Audiology	3	Research Project	6
Development Pediatrics	3	Diagnostic Audiology	2	Practice Management	3		
Medical Audiology I	3	Medical Imaging Studies for Audiologists	3				

Bachelor of Science in Rehabilitation Sciences



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / A-Level/Intermediate-F.Sc Pre-Medical or Equivalent with Minimum 50% marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The aim of Bachelors of Science in Rehabilitation Sciences (BS-RS) program is to produce graduates in the country of graduation level who will have the wide range of knowledge required to provide the best health-related and rehabilitation services. Our curriculum begins with people's experiences of illness, injury or disability, focusing on these core aspects of rehabilitation. The graduates will be competent to identify, assess, evaluate, manage, treat, disabilities and help in Rehabilitation. This degree program will cover

body systems (anatomy, psychology, nutrition), physical and mental health, interventions, health care systems and health informatics, and disability. This program produces the graduates having research knowledge and skills. On the bases of knowledge and skills they will be able to do the evidence-based practice.

CAREER PROSPECTS

It is a medical science degree program with specialization in rehabilitation. Rehabilitation science deals with the care and improvement or regaining lost abilities required for efficient functioning in life such as speech and hearing impairment, mobility, de addiction from psychotherapeutic treatment and other abilities. Rehabilitation science deals with the care that one needs to get back, keep, or improve abilities that the person will need for daily life. Physical, mental and cognitive – rehabilitation therapy deals with getting back, keeping or improving these abilities. Graduates of this program can find numerous working opportunities in the rehabilitation centers, counseling centers, speech therapy centers and other related work places. They can opt for careers such as special education teacher, rehabilitation therapists, recreational workers and other related roles.

ROAD MAP		TOTAL SEMESTERS 8				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	English III	3	Aural Rehabilitation	3
Physiology	3	Psychology	3	Introduction to Rehabilitation Sciences	3	Physical Therapy Sciences	3
Biochemistry	3	Basic of Statistics	3	Kinesiology and biomechanics	3	Intervention For Persons With Locomotor Disability	3
Islamic Studies	3	Computer Education	3	Neuroscience	3	Intervention for Persons with Mental Retardation	3
Biosafety- Patient and Equipment Safety	3	Pakistan Studies	3	Introduction to occupational sciences	3	Oral Motor Disabilities And Rehabilitation	3
English I	3	Medical Ethics	3	Human Motor development	3	Psychology and Sociology of Disability	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Pathology	3	Teaching Methodology and Community Medicine	3	Exercise Testing and Prescription in special population	3	Case management strategies	3
Mathematics	3	Intervention for Persons with Visual Impairment	3	Rehabilitation Ethics	3	Behavior Modification and Therapeutic Intervention	3
Microbiology	3	Medical Sociology	3	Practical Issues in Disability	3	Advanced clinical practice	3
Research Skill	3	Psychology and Sociology of Disability	3	Counselling theories	3	Research project	6
Evidence Based Practice	3	Assistive Technology in Rehabilitation Sciences	4	Advanced Physiotherapy	3		
Pharmacology	3						



Bachelor of Science in Occupational Therapy



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / A-Level/Intermediate-F.Sc Pre-Medical or Equivalent with Minimum 50% marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The aim of Bachelors of Science in Occupational Therapy (BS-OT) program is to produce graduates in the country of graduation level who will be competent to identify, assess, evaluate, manage, treat, educate and help to prevent physical and behavioral disorders. This degree program will cover different disorders and their management. This program produces the graduates having research knowledge and skills. On the basis of knowledge and skills they will be able to do the evidence based practice.

CAREER PROSPECTS

The scope of occupational therapy ranges from infancy to old age, and occupational therapists can work with elder, or will be able to enroll in master & PhD programs, potential place of work include:

- Government & Private Hospitals
- Independent Practice
- Special Schools & Colleges
- Sports Complexes Gyms
- Mental Hospitals
- Charity Departments
- Jail Setup
- Nursing Hospitals
- Rehabilitation Centers
- Industrial Organizations
- Community Service
- Government Agencies
- NGO's Private Rehabilitation Clinics/Centres

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 8				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	English III	3	General Surgery	3
Physiology	3	Psychology	3	Introduction to Occupational Therapist	3	Developmental pediatrics	3
Biochemistry	3	Basic of Statistics	3	Neurological Conditions	3	Psychiatry	3
Islamic Studies	3	Computer Education	3	Teaching methodology & Community med	3	Medicine	3
Biosafety- Patient and Equipment Safety	3	Pakistan Studies	3	Health Psychology	3	Manual Muscle Testing	3
English I	3	Medical Ethics	3	Biomechanics	3	Clinical Placement	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Microbiology	3	Basic Therapeutic Activities	3	Occupational Therapy in Development pediatric	3	Group Process in Occupational Therapy	3
Clinical Orthopedic	3	Occupational Therapy in Psychiatry	3	Advance Therapeutic use of Occupations/Activities	3	Occupational Therapy in Rehabilitation	3
Pharmacology	3	Occupational therapy and Theory I	3	Organization and Administration in Occupation Therapy	4	Rehabilitation Medicine	3
Introduction and Historical Perspective of Occupational Therapy	3	Occupational Therapy in Neurology	3	Occupational Theory & Therapy II	3	Research Project	6
Medical Sociology	3	Applied Medicine	3	Kinesiology	3		
Basic Pathology	3						



Bachelor of Science in Orthotics and Prosthetics Technology (BS-OPT)

Program Duration: 4 Years
Timing: Morning (Monday-Friday)
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / A-Level/Intermediate-F.Sc Pre-Medical or Equivalent with Minimum 50% marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The aim of the Bachelor of Science in Orthotics and Prosthetics Technology (BS- OPT) program is to produce graduates in the country of graduation level of prosthetics and orthotics who are competent and highly technical with critical thinking, problem solving, communication, soft and hard skills to design, fabricate, and fit patients requiring artificial

limbs. Students will also learn how to diagnose and treat patients who require prosthetic and orthotic treatment.

CAREER PROSPECTS

Rehabilitation of persons with locomotor disabilities or neuromuscular disorder is a teamwork, where Centre of attention is the person with disabilities. The team usually comprises of the Physical medicine and Rehabilitation Specialist (Physiatrist) who is usually the leader, Prosthetist and Orthotist, Physiotherapist, Occupational therapist, social worker, and Rehabilitation Nurse. Depending upon the need, other professionals like Orthopedic Surgeons, engineer, psychologist, geriatrist, and other related professionals are also included in the team. General planning of the total rehabilitation of the disabled is usually done by the Physiatrist. The role of Prosthetist and Orthotist is important. It is she/he, who fabricates and fits the prosthesis or orthosis to the persons with disabilities both temporary and permanent often referred as "Patient" and thus helps make the patient independent, confident and useful member of the society.

ROAD MAP		TOTAL SEMESTERS 8				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	English III	3	Prosthetics & Orthotics Design II	4
Physiology	3	Psychology	3	Neurological conditions	3	Research Skills	3
Biochemistry	3	Basic of Statistics	3	Human Biological Conditions	3	Prosthetics & Orthotics Science II	3
Islamic Studies	3	Computer Education	3	Rehabilitation and sport medicine	3	Clinical placement	3
Biosafety- Patient and Equipment Safety	3	Pakistan Studies	3	Prosthetics & Orthotics Design I	3	Upper limb Prosthesis	3
English I	3	Medical Ethics	3	Prosthetics & Orthotics Science I	3	Biomaterials & Biocompatibility	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Teaching methods and community medicine	3	Biotechnology	3	Biomechanics II	3	Orthotics & Prosthetic Workshop II	3
Microbiology	3	Engineering Design	3	Orthotics & Prosthetics Workshop I	4	Orthotics and Prosthetics Sciences IV	3
Mathematics	3	Principle of Orthotics and Prosthetics Design III	3	Orthopedic Medical Devices II	3	Seminar: Updates and current developments/Rehabilitation Centers visits	3
Basic Pathology	3	Principle of Orthotics and Prosthetics Science III	3	Principle of Orthotics and Prosthetics Design IV	3	Clinical Studies	3
Physiotherapy	3	Orthopedic Medical Devices I	3	Electrical Technology	3	Research project	6



Master of Science in Speech Language Pathology/Hearing Sciences (Audiology)



Program Duration: 2 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, 4 Years BS (Speech Language Pathology /Audiology/Psychology), 2 Years MSc Psychology. 2 Years MSc Special Education, MBBS/BDS or equivalent qualification from HEC recognized Institution with CGPA 2.5 / 4.0 Minimum 60% marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

Speech Language Pathology/Hearing Sciences (Audiology) is a relatively new but growing profession of rehabilitation sciences. This Two-years post graduate program includes instruction in all clinical and practical phases of an essential part of communication and Hearing disorders. The focus of program is to train speech language pathologists/therapists and audiologists to serve the communication disorders and hearing and balance problems. The educational missions of the Department of Rehabilitation Sciences is to educate and train speech pathologists and Audiologists to serve the needs of the health care population. Moreover educate and train qualified teachers and researchers in field of speech

and hearing sciences; to provide MS degree in advanced clinical areas and to provide training for practitioners in new developments. The research mission is to add to the body of knowledge identified in speech and hearing sciences and its effective applications. The service missions are to provide counsel and support to the profession in its mission to improve clinical services; to help provide appropriate health education to the public; to help extend care to those segments of society which are underserved, and to provide advice and counsel to the international Speech and Audiology sector.

CAREER PROSPECTS

This interactive degree is designed to help students build their knowledge of Speech Pathology and Audiology. They will be able to work as Speech Pathologist / Audiologist in government and private sector and proficiency to facilitate the communication & hearing impaired communities. The scope of Speech Language Pathology and Audiology profession is most required now a days or will be able to enroll in PhD programs, Professionals working areas are:

- Government & Private Hospitals
- Independent Practice
- Special Schools & Colleges
- Mental Hospitals
- NGOs
- Nursing Hospitals
- Rehabilitation Centers
- Industrial Organizations
- Community Service
- Government Agencies

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 4		TOTAL CREDIT HOURS 40	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.
Child Development	2	Communication & Behavioral Disorder	2	MS Speech Language Pathology	MS Hearing Sciences
Language Sciences	2	Evidence Based Practice	2	Assistive Communication & Devices	2 Amplification Devices
Biomedical Sciences-I	3	Biomedical Sciences-II	2	Assessment of Language & Speech Disorders	3 Diagnostic Audiology
Neural Bases Speech Language & Hearing	2	Rudiments of Audiology	2	Clinical Management in Speech Language Pathology	3 Clinical Management in Audiology
		Pharmacology of Speech and Hearing Sciences	2	Biostatistics & Research Methodology	2 Biostatistics & Research Methodology
SEMESTER 4					CR. HR.
MS Speech Language Pathology		MS Hearing Sciences			
Clinical Seminar / Case Report		1	Clinical Seminar / Case Report		1
Research Project		6	Research Project		6

Department of Emerging Allied Health Technologies (DEAHT)



HoD's MESSAGE

Department of Emerging Allied Health Technologies (DEAHT) is the constitutional part of Allied Health Sciences at The University of Lahore: Department of Emerging Allied Health Technologies is offering the Undergraduate programs including BS. BioMedical Engineering Technology, BS. Cardiac Perfusion Technology, BS. Neurophysiology Technology, BS. Dialysis Technology, BS. Dermatology Technology, BS. Vascular Technology and BS. Cardiac Technology. The Department of Emerging Allied Health Technologies within the division of Allied Health Sciences (AHS) at The University of Lahore is dedicated to clinical and academic excellence in teaching and research. The ultimate goal of the DEAHT is to produce medical professionals outfitted with highest standards in creativity, transfer and application of knowledge dissemination to address issues of our time. Department is providing students with an outstanding education, as well as to providing a foundation for leadership in management and supervision, research and clinical specialization in the field of Emerging Allied Health Technologies.

Dr. Zeeshan Haider

PhD in Biomedical Engineering
University of Science & Technology, China (USTC)

MISSION STATEMENT

- The core purpose of the department is to produce the professionals who will be able to work in the neurophysiology labs, coronary care units, dialysis units, dermatology clinics and cardiac surgery units.
- Professionals who have comprehensive understanding of medical equipment and bringing novelty, in depth-thinking and enduring learning skills into health-care settings.
- To enhance the numeral of capable allied health professionals, to fulfill shortage of trained professionals with a particular focus on their clinical training which is demonstrated with our excellent clinical- and research oriented curriculum.
- Department is committed to provide evidence based education so that these graduates can meet national and international standards.

INTRODUCTION

The core purpose of the department is to produce professionals who will be able to work in the neurophysiology lab, coordinated care units, dialysis units, medical diagnostic labs and cardiac surgery unit. Professionals who have comprehensive understanding of medical equipment and bringing novelty, in depth thinking and enhance learning skills into health care settings. The Department of Emerging Allied Health Technologies also focuses on the enhancement of capable allied health professionals, to fulfill shortage of trained professionals with a particular focus on their clinical training, which is demonstrated with our excellent clinical and research-oriented curriculum. Department is committed to provide evidence-based education so that these graduates can meet national and international standards



SCAN THIS TO SEE
FACULTY LIST



Bachelor of Science in Bio-Medical Engineering Technology



Program Duration: 4 Years

Timing: Morning (Monday-Saturday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, FSc Pre-Engineering or Pre-Medical or equivalent securing at least 50% marks.
- A candidate who has passed the Diploma of Associate Engineer (DAE) securing at least 50% marks shall be eligible only following relevant technologies:
- 1. Biomedical. 2. Electrical. 3. Electronics. 4. Instrumentation. 5. Radar Technology. 6. Automation. 7. Radio Technology. 8. Instrumentation & Process Control. 9. Mechatronics
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The aim of Bachelors of Science in Biomedical Engineering Technology (BS BMET) program is to produce graduates in the country. The graduates will be competent to identify, assess, evaluate, manage and trouble shoot all the problems and errors in biomedical equipment and are eligible enough to get hands on the biomedical equipment and machines to maintain and to repair them. This program produces the graduates having research knowledge and skills. On the basis of knowledge and skills, they will be able to revolutionize the medical technology world.

CAREER PROSPECTS

- Government Hospitals
- Private Hospitals
- Universities
- Rehabilitation Centers
- School & Colleges
- Government Agencies
- Research Laboratories

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP	TOTAL SEMESTERS 8				TOTAL CREDIT HOURS 141		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English I (Functional English)	3	Bio-Statistics	3	Basic Electrical Engineering	3	Basic Electronics	3
Medical Sociology & Professional Ethics	3	English II (Communication skills)	3	English III (Technical Report Writing)	3	Biophysics	3
Computer Education	3	Computer Aided Engineering Drawing	2	Complex Variable and Transforms	3	Circuit Analysis	3
Calculus and Analytical Geometry	3	Economics and Healthcare Management	3	Islamic Studies/Ethics	3	Biomechanics	3
Applied Chemistry	3	Biochemistry	3	Pakistan Studies	3	Digital Logic Design	3
Human Anatomy	3	Physiology	3	Applied Physics	3	Numerical Analysis	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Biomedical Instrumentation-I	3	Bio signal Processing	3	Medical Imaging	3	Industrial Training-I	8
Biomedical Electronics	3	Biomedical Instrumentation-II	3	Neuroscience and neural networks	3	Industrial Training-II	8
Signals and Systems	3	Biomedical Control System	3	Bio informatics	3		
Microprocessor & interfacing	3	Rehabilitation Engineering	3	Prosthesis and Implant	3		
Linear Algebra & Differential Equation	3	Tissue Engineering	3	Biomaterial and Design	3		
Bio fluid Mechanics	3	Modelling & Simulation	3	Medical Robotics & Artificial Intelligence	3		

Bachelor of Science in Vascular Technology



Program Duration: 4 Years

Timing: Morning (Monday-Saturday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, FSc Pre-Medical or equivalent securing at least 50% marks.
- Securing pass percentage in the entry test.
- Qualifying the interview successfully.
- Having up to the marks credentials (No. of attempts, any medal or distinction, work experience).
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The aim of Bachelor of Science in Vascular Technology (BS-VT) program is to produce graduates in the country of graduation level who will be competent to identify, assess, evaluate, manage, educate and help prevent vascular disorders. This degree program will cover vascular disorders, their management, including the cardiovascular care of patients. This program produces the graduates having research knowledge and skills. On the basis of knowledge and skills, they will be able to adopt and observe the evidence based practice.

CAREER PROSPECTS

- Government Hospitals
- Private Hospitals
- Universities
- Rehabilitation Centers
- School & Colleges
- Government Agencies
- Research Laboratories
- Diagnostic Labs

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 8				TOTAL CREDIT HOURS 136	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	English III	3	Research Skills	3
Physiology	3	Psychology	3	Invasive Cardiology	3	Cardiovascular Sonography	3
Biochemistry	3	Basic of Statistics	3	Vascular Ultrasound – I	3	Medical imaging	3
Islamic studies	3	Computer Education	3	Electro Cardiography	3	Vascular Ultrasound– II	3
Biosafety, Patient and Equipment Safety	3	Pakistan Studies	3	Medical Terminology	3	Emergency Medicine Relevant to Vascular Care	3
English I	3	Medical Ethics	3	Physics of Ultrasound	3	Basis of Hospital Management in Vascular Technology	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Microbiology	3	Medical Sociology	3	Common Vascular Diseases	3	Recent Advances in Cardiovascular-II	4
Pharmacology	3	Basic & Advance Cardiovascular Life Support-I	3	Common Vascular Interventions	3	Peripheral Vascular-II	3
Mathematics	3	Critical Care I	3	Critical care-II	3	Case Studies: Vascular Ultrasound and Echocardiography	3
Non- Invasive Cardiology	3	Peripheral Vascular-I	3	Basic & Advance Cardiovascular Life Support-II	3	Research project	6
Teaching Methodology in community medicine	3	Evidence Based Practice	3	Recent Advances in Cardiovascular-I	3		
Pathology	3						



Bachelor of Science in Dermatology Technology



Program Duration: 4 Years

Timing: Morning (Monday-Saturday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, FSc Pre-Medical or equivalent securing at least 50% marks.
- Securing pass percentage in the entry test.
- Qualifying the interview successfully.
- Having up to the marks credentials (No. of attempts, any medal or distinction, work experience).
- UOL Entry Test / Interview is mandatory.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

INTRODUCTION

The aim of Bachelor of Science in Dermatology Technology (BS-DermaT) program is to provide graduates with understanding of the fundamental knowledge related to the skin and skin appendages such as hair, nails, sweat glands and sebaceous glands through patient care with dermatology presentations (including rashes, pigmentation and skin cancer). Students will also learn the role of dermatology consultation in the care of general medical patients for both in the inpatient and outpatient settings. By the end of rotations, students will be expected to be competent in caring for common presentations and diagnosis of Dermatology. On the basis of knowledge, they will be able to observe evidence based practice.

CAREER PROSPECTS

- Government Hospitals
- Private Hospitals
- Universities
- Rehabilitation Centers
- School & Colleges
- Government Agencies
- Research Laboratories
- Diagnostic Labs

ROAD MAP		TOTAL SEMESTERS 8			TOTAL CREDIT HOURS 138		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	English III	3	Research Skills	3
Physiology	3	Psychology	3	Frontiers of Dermatology	3	Derma-epidemiology	3
Biochemistry	3	Basic of Statistics	3	Microbiology and Immunology of the Skin	3	Dermatology Health Care Delivery	3
Islamic studies	3	Computer Education	3	Dermato-pathology and Skin Disorders	3	Skin Research Techniques	3
Biosafety, Patient and Equipment Safety	3	Pakistan Studies	3	Photobiology and Photomedicine	3	Legislation of Cosmetics Products	3
English I	3	Medical Ethics	3	Pediatric Dermatology	3	Teaching Methodology and Community Medicine	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Evidence Base Practice	3	Introduction To Statistics	3	Dermatology and Infections Control	3	Laser Aesthetics	3
Principle of Nutrition	3	Patient Care	3	Marketing Management	3	Cosmetic Surgery	3
Pharmacology	3	Introduction and Historical Perspective of Dermatology	3	Psychosocial Impact of Skin Disease	3	Case Report Management and Strategy	3
Pathology	3	Skin Care in All Ages	3	Inflammatory Skin Disorders	3	Advanced Clinical Practice	3
Mathematics	3	Phototherapy	3	Disorders of Pigmentations	3	Research Project	6
Cosmetics Science	3						

Bachelor of Science in Neurophysiology Technology



Program Duration: 4 Years

Timing: Morning (Monday-Saturday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, FSc Pre-Medical or equivalent securing at least 50% marks.
- Securing pass percentage in the entry test.
- Qualifying the interview successfully.
- Having up to the marks credentials (No. of attempts, any medal or distinction, work experience).
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

The aim of Bachelor of Science in Neurophysiology Technology (BS-NT)

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

is to provide students with the knowledge, skills and practical experience to work as a professional healthcare scientist. Clinical physiologists (neurophysiologist) work closely with patients of all ages to investigate the function of the nervous system, diagnose and monitor neurological disorders including epilepsy, strokes, dementia, nerve and muscle dysfunction and multiple sclerosis. Students will gain an understanding and confidence with executing specialist procedures in neurophysiology including EEG(electroencephalography) - recording the electrical activity of the brain; Evoked potentials - brain responses as a response to specific stimuli; EMG (Electromyography) and NCS (Nerve Conduction Studies) - assess nerve and muscle function.

CAREER PROSPECTS

- Government Hospitals
- Private Hospitals
- Universities
- Rehabilitation Centers
- School & Colleges
- Government Agencies
- Research Laboratories
- Diagnostic Labs

ROAD MAP		TOTAL SEMESTERS 8			TOTAL CREDIT HOURS 139		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	English III	3	Research Skills	3
Physiology	3	Psychology	3	Basics of Neuroimaging Modalities	3	Neuro- physiology II	3
Biochemistry	3	Basic of Statistics	3	Clinical Neurophysiology I	3	Clinical neurophysiology II	3
Islamic studies	3	Computer Education	3	Introduction and Historical Perspective of Neurophysiology	3	Neuroanatomy and Embryology	3
Biosafety, Patient and Equipment Safety	3	Pakistan Studies	3	Neurological Conditions	3	Synaptic integration	3
English I	3	Medical Ethics	3	Neuropathology	3	Basic of EEG	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Microbiology	3	Neuronal Circuit	3	Action potential propagations	3	Evidence Based Practice	3
Pharmacology	3	Infection control/Infection control lab	4	Basics of EMG and NCV	3	Abnormal EEG and Neonatal EEG	3
Mathematics	3	Sleep study and intraoperative	4	Medical sociology	3	Seminar: Updates and current developments	3
Introduction To Statistics	3	Diagnostic Medicine I	4	Diagnostic Medicine II	4	Clinical practice of EEG	3
Teaching methodology and community medicine	3			Health Sciences	3	Research project	6
Pathology	3						





Bachelor of Science in Cardiac Technology

Program Duration: 4 Years
Timing: Morning (Monday-Saturday)
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, FSc Pre-Medical or equivalent securing at least 50% marks.
- Securing pass percentage in the entry test.
- Qualifying the interview successfully.
- Having up to the marks credentials (No. of attempts, any medal or distinction, work experience).
- UOL Entry Test / Interview is mandatory.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

INTRODUCTION

Cardiac Technology is a specialty assisting in diagnosis and treatment of disorders related to the cardiovascular system (CVS). These include congenital heart defects, coronary artery disease, heart failure, valvular heart disease, and electrophysiology of the heart. Students will be able to apply their knowledge to analyze the CVS and will be able to utilize relevant computer assisted technologies.

CAREER PROSPECTS

- Government Hospitals
- Private Hospitals
- Universities
- Rehabilitation Centers
- School & Colleges
- Government Agencies
- Research Laboratories
- Diagnostic Labs
- Critical Care Units

ROAD MAP		TOTAL SEMESTERS 8			TOTAL CREDIT HOURS 138		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	English III	3	Research Skills	3
Physiology	3	Psychology	3	Health Information System	3	Echocardiography	3
Biochemistry	3	Basic of Statistics	3	Cardiac Pharmacology	3	Electro Cardiography-II	3
Islamic Studies	3	Computer Education	3	Cardiopulmonary Diseases	3	Cardiac Instrumentation	3
Biosafety, Patient and Equipment Safety	3	Pakistan Studies	3	Electro Cardiography-I	3	Electrophysiology	3
English I	3	Medical Ethics	3	Hematology	3	Cardiac Diagnostic Procedure	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Mathematics	3	Epidemiology	3	Robotic Surgery	3	Bioethics In Cardiology	3
Electrophysiology	3	Research Methodology & Biostatistics	3	Nuclear Cardiology	3	Seminar: Updates and Current Developments	3
Cardiac Surgery	3	Critical Analysis of Measurement and Diagnostic Test	3	Preventive Cardiology	3	Critical Care	3
Microbiology	3	ECMO and ECLS	3	Diagnostic Equipment in Cardiology	3	Advanced Clinical Practice	3
Teaching Methodology and Community Medicine	3	Pharmacology	3	Clinical Medicine	3	Research Project	6
Pathology	3						

Bachelor of Science in Dialysis Technology



Program Duration: 4 Years

Timing: Morning (Monday-Saturday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, FSc Pre-Medical or equivalent securing at least 50% marks.
- Securing pass percentage in the entry test.
- Qualifying the interview successfully.
- Having up to the marks credentials (No. of attempts, any medal or distinction, work experience).
- UOL Entry Test / Interview is mandatory.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

INTRODUCTION

The aim of Bachelors of Science in Dialysis technology (BS-DT) program is to produce graduates who will be competent identify, assess, evaluate, manage, treat, educate and help to prevent renal disorders. This degree program will cover renal disorders and their management. This program produces graduates having research knowledge and skills, to perform evidence based practice.

CAREER PROSPECTS

- Government Hospitals
- Private Hospitals
- Universities
- Rehabilitation Centers
- School & Colleges
- Government Agencies
- Research Laboratories
- Dialysis Units

ROAD MAP		TOTAL SEMESTERS 8			TOTAL CREDIT HOURS 139		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	English III	3	Research Skills	3
Physiology	3	Psychology	3	Renal Anatomy and Histology	3	Renal Failure and Nephrology ICU	3
Biochemistry	3	Basic of Statistics	3	Introduction and History Perspective of Dialysis	3	Directed Clinical Education II	3
Islamic studies	3	Computer Education	3	Directed Clinical Education I	3	Medical Laws	3
Biosafety, Patient and Equipment Safety	3	Pakistan Studies	3	Dialysis Techniques	3	Complications in Dialysis	3
English I	3	Medical Ethics	3	Applied Dialysis Therapy Technology I	3	Arterial Blood Gases	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Applied Dialysis Therapy Technology II	3	Introduction To Statistics	3	Clinical Medicine	3	Electronics and Technology Used in Dialysis	3
Teaching Methodology and Community Medicine	3	Assessment of Renal Function	3	Directed Clinical Education-IV	4	Case Management Strategy	3
Pharmacology	3	Infection Control in Dialysis	3	Environmental Science and Health	3	Seminar: Updates and Current Developments	3
Pathology	3	Directed Clinical Education III	3	Early Clinical Exposure	3	Advanced Clinical Practice	3
Mathematics	3	Renal Disorders	3	Pediatric Nephrology and Urology	3	Research Project	6
Microbiology	3						



Bachelor of Science in Cardiac Perfusion Technology



Program Duration: 4 Years

Timing: Morning (Monday-Saturday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, FSc Pre-Medical or equivalent securing at least 50% marks.
- Securing pass percentage in the entry test.
- Qualifying the interview successfully.
- Having up to the marks credentials (No. of attempts, any medal or distinction, work experience).
- UOL Entry Test / Interview is mandatory.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

INTRODUCTION

The aim of Bachelor of Science in Cardiac Perfusion Technology (BS-CPT) program is to equip students with relevant professional knowledge, skills, techniques and ethical norms which will enable them to apply their acquired expertise at the level between the doctors and the patient for efficient health service delivery. This program produces the graduates having research knowledge and skills. On the basis of knowledge and skills, they will be able to observe evidence-based practice.

CAREER PROSPECTS

- Government Hospitals
- Private Hospitals
- Universities
- Rehabilitation Centers
- School & Colleges
- Government Agencies
- Research Laboratories
- Intensive Care Units

ROAD MAP		TOTAL SEMESTERS 8			TOTAL CREDIT HOURS 139		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	English III	3	Research Skills	3
Physiology	3	Psychology	3	Pathophysiology of Perfusion Technology	3	Principle and Ethics of Perfusion Technology	3
Biochemistry	3	Basic of Statistics	3	Instrumentation in Perfusion Technology	3	Perfusion Technology	3
Islamic studies	3	Computer Education	3	Basic and Advance Cardiac Life Support	3	Cardiac Thoracic surgery	3
Biosafety, Patient and Equipment Safety	3	Pakistan Studies	3	Pediatric Cardiology	3	Pathology	3
English I	3	Medical Ethics	3	Hematology	3	Cardiopulmonary Diseases	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Microbiology	3	Cardiovascular diseases	4	Perfusion technology II	3	Congenital heart surgery	3
Mathematics	3	Application of cardiovascular diagnostic and monitoring	4	Cardiopulmonary bypass and mechanical support	3	Clinical Perfusion Technology	3
Hematology	3	Pediatrics and Perinatal pathophysiology and critical care	3	Cardiac thoracic surgery II	3	Seminar: Updates and current developments	3
Health Informatics	3	Supervised Clinical Experience I	4	Advanced pharmacology in perfusion technology	3	Advanced clinical practice	3
Teaching methodology and community medicine	3			Supervised Clinical Experience II	3	Research project	6
Pharmacology	3						

Department of Optometry & Vision Sciences



HoD's MESSAGE

Optometrists are the primary health care practitioners of the eye and the visual system who provide comprehensive eye and vision care. I welcome you all to the Department of Optometry (DOVS), UOL and invite you to join us in this wonderful experience to increase your insight and knowledge in Optometry and vision sciences. Being the pioneers of the degree of Optometry in Pakistan, we offer you the best and most complete degree program in this field. We cater for undergraduate courses in Optometry, with a very well trained faculty, a team of extremely competent doctors at our UOL Teaching hospital and attached hospitals and a vast array of activities to optimize your learning experience; we also have the best research opportunities available with a well-equipped lab to boost your research and academic skills alongside excellence in clinical training. After completing the course students will have enough knowledge and expertise to become primary care providers to people with visual complaints. They will have employment opportunities in public and private sector institutes as well as eye clinics and optical outlets.

Dr. Muhammad Khizar Bashir

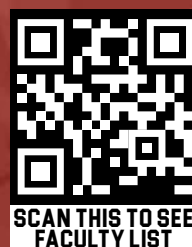
MBBS, Punjab University
MCPS Ophthalmology, CPSP
M.Phil Public Health, UOL
PhD Scholar, UOL

MISSION STATEMENT

The University of Lahore (UOL) aspires to become a nationally and internationally recognized university that distinguishes itself as an embedding centre for outstanding ethical and moral values, teaching quality, learning outcomes, and richness of the student experience scholarly activities/services and lifelong learners.

INTRODUCTION

The Department of Optometry and Vision Sciences (DOVS) within the division of Allied Health Sciences (AHS) at The University of Lahore is dedicated to clinical and academic excellence in teaching and research. The ultimate goals are to produce medical professionals with highest standards in creativity, transfer and application of knowledge, dissemination to address issues of our time and coverage of future prospects.



Bachelor of Vision Sciences



Program Duration: 5 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / A-Level/Intermediate-F.Sc Pre-Medical or Equivalent with Minimum 50% marks.
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

This degree is designed especially for those students who want to excel their career in the field of Optometry. They will be Called “Optometrist”. This Degree will provide professional skill to them and they will be in a position to get better jobs as an “Optometrist” in health settings. Optometrist Provide general eye and vision care—some through general practice and others through more specialized practice such as contact lenses, geriatrics, low vision services (for visually impaired patients), occupational vision (to protect and preserve workers’ vision and minimize eye strain), pediatrics, sports vision, and vision therapy. Currently there is a lot of demand for Optometrists in Pakistan as well as in USA, Canada, UK, Australia and in South Asia etc. It is estimated that one Optometrist is required per 10,000 people. But the total number of Optometry professionals in Pakistan is only one for 60000 people.

CAREER PROSPECTS

Bachelors of Vision Sciences are independent primary health care providers and represent the front line of vision health. The eye health and good vision of the public are the prime responsibilities of Pakistan's Bachelors of Vision Sciences, who:

- Specialize in the examination, diagnosis, treatment, management and prevention of disease and disorders of the visual system, the eye and associated structures
- Diagnose ocular manifestations of systemic conditions such as diabetes and high blood pressure and complications of the aging process such as cataracts and macular degeneration
- Prescribe medication to treat certain eye diseases
- Prescribe and fit eye glasses and contact lenses as well as safety eyewear and subnormal vision devises
- Provide vision therapy and low-vision rehabilitation
- Work in conjunction with other health care providers to provide integrated, quality care for patients
- Educate patients about vision health and lifestyle choices for protecting and enhancing good vision and health
- Conduct research and promote advancement in the visual sciences.
- Optometry is a regulated profession. BVS practice in a range of settings: most work in Govt. /Private practice, others work in clinics, hospitals, community health centers, corporate optometry, research, teaching and administration.



ROAD MAP		TOTAL SEMESTERS 10			TOTAL CREDIT HOURS 172		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Anatomy	3	English II	3	English III	3	Physiological and Visual Optics	3
Physiology	3	Psychology	3	Geometrical and Physical optics	3	Refraction II	3
Biochemistry	3	Basic of Statistics	3	Refraction I	3	Low Vision & Inclusive Eye Care	4
Islamic studies	3	Computer Education	3	Optometric Procedures	3	Ophthalmic Dispensing	3
Biosafety, Patient and Equipment Safety	3	Pakistan Studies	3	Contact Lens	3	Orthoptics	2
English I	3	Medical Ethics	3	Research Skills	3	Ocular Diseases	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Pathology	3	Ophthalmic Dispensing I	3	Applied Statistics for Optometrists	2	Clinical Reasoning and Diagnostic Procedures	2
Behavioral Sciences	2	Advance Optometric Procedures	3	Ocular Pharmacology	2	Neuro-Ophthalmology	3
Pharmacology	2	Community Medicine	2	Ophthalmic Dispensing II	3	Clinical Refraction and instrumentation	2
Public Health Optometry	2	Clinical medicine	3	Low Vision rehabilitation and Geriatrics	3	Advance Ocular Diseases	3
Primary Eye Care	1	Fundamentals of Surgery	2	BSV and Orthoptic Techniques (Amblyopia)	3	Clinical Problem Solving	2
Screening Observations	2	Advance Refraction and visual functions	3	Pediatric Optometry	3	Advance Contact Lens	3
Mathematics for Optometry	2	Clinical Practice	2	Clinical Practice	2	Clinical Practice	3
SEMESTER 9			CR. HR.	SEMESTER 10		CR. HR.	
Clinical Rotations I(Refraction, screening and Pediatric care)			6	Clinical Rotations III (Diagnostic & Paeds & Ophthalmology clinic)		6	
Clinical Rotations II (Contact Lens, dispensing, low vision)			6	Clinical Rotation IV (Vireo-retina Clinic & Glaucoma Clinic)		6	
Research methodology			2	Research Project		6	

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.





HoD's MESSAGE

Believed in holistic personality development of the Nursing Students by not only academics and professional but also focusing on co-curricular and extra-curriculum activities through community involvement. Nursing faculty members also committed to inculcate strong moral and ethical values in the nursing students which are essential for competent Nurse.

Prof. Muhammad Afzal

Master of Science in Nursing
Bachelor of Science in Nursing, AKU, Karachi
MBA in Health Management, Preston
Master of Science Hematology, BMU, Karachi

MISSION STATEMENT

The school approach is to enhance the health and well-being of the people by advancing the profession of nursing through education, practice, research and innovation.

INTRODUCTION

By the grace of Allah, beginning of Nursing Programme in University of Lahore is a great achievement for Nursing Profession. We hope that beginning step will be milestone of new Era of Nursing profession in Punjab. It is Two-Years BSN (Post RN), Four-Years BSN, and Two-Years MSN degree programme to prepare competent nurses who will develop innovative practical solution to complex health problems from the scientific perspective.



Bachelor of Science in Nursing



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission,
Pakistan Nursing Council

Entry Requirements

- 12 Years of Education, Matric Science, FSc (Pre-Medical) / Equivalent with 50% minimum marks
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

This programme consists of 137 credit hours with 44 core courses and one elective course. After completion of Four Years BS Nursing students will be able to:

1. Utilizing the nursing process to provide safe, competent, and holistic nursing care to patients/clients in variety of settings.
2. Utilizing effective critical thinking and problem solving in their professional practiced.
3. Utilizing scholarly skills and the use of scientific methods in critiquing and applying existing nursing theories and research findings in selected practice settings.
4. Utilizing effective oral and written communication in interpersonal and professional interactions with peers, clients, families, and other professional.
5. Developing leadership skills to promote development of the profession.

CAREER PROSPECTS

Graduate (BSN) nurses can work in a variety of practice settings such as hospitals, long-term care facilities, community and public health agencies, ambulatory care centers, Public Health Service, military services, Administration Medical centers and in any setting where health care services are needed. It includes operation room, critical care and emergency departments as well.

*CLINICAL PRACTICUM (COURSES)

- Accident and Emergency
- Community Health Nursing
- Critical Nursing
- Dental Health Nursing
- Education
- Management
- Mental Health Nursing
- Operation Theatre Nursing
- Paediatric Nursing

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.



ROAD MAP		TOTAL SEMESTERS 8				TOTAL CREDIT HOURS 135	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Fundamental of Nursing-I	4	Fundamental of Nursing-II	4	Adult Health Nursing-I	8	Adult Health Nursing-II	8
Microbiology	3	Anatomy and Physiology-II	3	Pathophysiology-I	2	Pathophysiology-II	3
Anatomy and Physiology-I	3	Community Health Nursing-I	3	Health Assessment-I	2	Health Assessment-II	2
Biochemistry for Nurses	3	Applied Nutrition	1	Pharmacology-I	2	Developmental Psychology	2
English-I	2	English-II	2	Mathematics	1	Pharmacology-II	2
Computer Skills	1	Islamic Studies	2	English-III	2	English-IV	2
		Pak. Studies	2			Nursing Ethics	1
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Pediatric Health Nursing	7	Mental Health Nursing	6	Critical Care Nursing	7	Community Health Nursing-III	5
Community Health Nursing-II	6	Introduction to Biostatistics	3	Introduction to Nursing Theories	2	Nursing Seminar / Role Transition	2
Teaching / Learning: Principles and Practices	3	Behavioral Psychology	3	Leadership and Management in Nursing	3	English VIII	2
English-V	2	Epidemiology	2	Nursing Research	3	*Clinical Practicum	5
		English-VI	2	English-VII	2		
		Culture, Health, and Society	2				



Bachelor of Science in Nursing (Post RN)



Program Duration: 2 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission,
Pakistan Nursing Council

Entry Requirements

- Matric (Science)
- Three Years General Nursing Diploma
- One Years Midwifery for Females / One Years Specialization for Males
- 1 Years Clinical Experience as RN
- Valid PNC Registration Card
- UOL Entry Test / Interview is mandatory.

INTRODUCTION

This programme consists of 66 credit hours with 22 cores and one elective course. After completion of Two Years BS Nursing (Post RN) students will be able to:

1. Utilizing the nursing process to provide safe, competent, and holistic nursing care to patients/clients in variety of settings.
2. Utilizing effective critical thinking and problem solving in their professional practiced.
3. Utilizing scholarly skills and the use of scientific methods in critiquing and applying existing nursing theories and research findings in selected practice settings.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

4. Utilizing effective oral and written communication in interpersonal and professional interactions with peers, clients, families, and other professional.
5. Developing leadership skills to promote development of the profession.

CAREER PROSPECTS

Graduate BS Nursing (Post RN) nurses can work in a variety of practice settings such as hospitals, long-term care facilities, community and public health agencies, ambulatory care centers, Public Health Service, military services, Administration Medical centers and in any setting where health care services are needed. It includes operation room, critical care and emergency departments as well.



ROAD MAP	TOTAL SEMESTERS 4				TOTAL CREDIT HOURS 66		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Biochemistry	2	Advance Concepts in Nursing (II) Mental Health	4	Advance Concepts III (CHN)	4	Research/ Evidence based Elective project	4
Advance Concepts in Nursing I (Adult Health Nursing)	4	Introduction to Biostatistics & Epidemiology	4	Introduction to Nursing Research	3	Clinical Practicum	6
Health Assessment	3	Epidemiology	2	Professional Development and Ethics	3	English IV (Scholarly writing)	2
Pharmacology	3	Culture Health & Society	2	Pak Studies	2	Islamic Studies/Ethics (For Non-Muslims)	2
English I (Functional)	2	Introduction to Nursing Models & Theories	2	Leadership and Management	3		
Computer Skills & Information Technology	2	English II (Academics)	2	English III (Professional writing)	2		
		Principle of Teaching and Clinical Preceptorship	3				



Master of Science in Nursing



Program Duration: 2 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission, Pakistan Nursing Council

Entry Requirements

Track 1:

- Matric / SSc (Science)
- Three Years Diploma in General Nursing
- Diploma in Midwifery for female / One Year Specialization for male
- English, Pakistan Studies & Islamiyat of BSc/BA Level (Separate Transcript)
- BS Nursing (Post RN) with minimum 65% marks / CGPA 2.5 out of 4.0
- 1 year experience as RN after BS Nursing (Post RN)
- Equivalence letter of 16 years education from HEC
- Valid PNC Registration Card
- UOL Entry Test / Interview is mandatory.

Track 2:

- Matric / SSc (Science)
- FSc (Pre-Medical) / A-Level / Intermediate
- Generic BS Nursing with minimum 65% marks or CGPA 2.5 out of 4.0
- A total of 2 years experience including 1 year internship (bedside care)
- Equivalence letter of 16 years education from HEC
- Valid PNC Registration Card
- UOL Entry Test / Interview is mandatory.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

INTRODUCTION

This programme consists of 45 credit hours with 14 cores and one elective course. After completion of Two Years MS Nursing students will be able to:

1. Apply evidence based practice in the clinical/ community setting.
2. Utilizing effective verbal and written communication in professional interactions with peers, clients, families, and other professional.
3. Demonstrating competence in the use of available resources to support the identified needs of communities, families, and individuals.
4. Demonstrating the ability to coordinate activities related to the provision of health care for individuals, families and groups of patients clients in various settings.
5. Utilize existing health care system and its policies to provide safe and quality care to patient/client and population.
6. Participate in enhancing and developing of the profession.

CAREER PROSPECTS

Graduates (MSN) nurses have many career opportunities because of increase of hospitals and more consciousness towards the health. MSN graduates can apply for job in many hospitals for the post of Nurse leader and have many chances to get into Private and government hospitals and health centers. MSN graduates also have opportunities at nursing education such Lecturer, Assistant Professor, Associate Professor and Professor.

ELECTIVES

- Community Health Nursing Practicum
- Education Practicum
- Hospital Nursing Practicum
- Leadership Practicum

ROAD MAP	TOTAL SEMESTERS 4				TOTAL CREDIT HOURS 45		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Advance Concepts in Health Assessment	3	Advance Concepts in Clinical Care	3	Advance Concept in Biostatistics	3	Scholarly Writing	2
Advance Concepts in Nursing Theories	2	Advance Concepts of Community / Public Health	3	Ethics in Health Care	1	Thesis-II	7
Advance Concepts in Pathology	2	Educational Design and Administration	3	Thesis-I	2		
Advance Concepts in Pharmacology	2	Leadership and Management in Nursing Practice	3	Electives	6		
Nursing Research	3						

ART & ARCHITECTURE



DEPARTMENTS

- School of Architecture
- School of Creative Arts

School of Architecture



HoD's MESSAGE

Architecture is an ever-evolving field and here at the School of Architecture, the University of Lahore, our competent faculty strives to produce professionals who are fully equipped with analytical and interpersonal skills with strong Professionalism and work ethics. The program focuses on the role of Architectural Studies in meeting the advancing parameters of research, technology and professional practice. Our target is to raise the students as competent designers to take part in both national and international platforms fully equipped with the challenges of the contemporary world. The stimulating environment of the school encourages the students to learn and contribute to the multifarious activities related to the social, environmental and economical role of Architecture.

Ar. Zeeshan Asim

Masters in Interior Design
National College of Arts, Lahore

MISSION STATEMENT

The School of Architecture at the University of Lahore aims to develop human, socio-cultural, environmental, scientific, technological, aesthetical, and philosophical foundations of architectural education which will enable students to actively deal with the modern-day dynamics of Architectural design.

INTRODUCTION

The School of Architecture at University of Lahore produces passionate students under the supervision of competent faculty who work together to explore the boundaries of one of the most demanding profession one can enter today. Encouraged by interdisciplinary study, the students are trained to develop a diverse range of skills and qualities during their studies. The academic program of the School follows the framework of curriculum developed by the Higher Education Commission and Pakistan Council of Architects & Planners Pakistan. The school consists of the state of the art Design Studios, Workshops, Lecture Rooms, Fully Equipped Computer Lab, Library and other Allied Facilities that offer a venue for new approaches to our contemporary teaching culture.

LEARNING OUTCOMES

- Recognize dynamics of Architectural studies in terms of social values, needs, behavioral norms, cultural aspects, and social patterns according to the built environment.
- Integrate different computer software knowledge in Architectural design and relevant subjects.
- Communicate design projects both verbally and visually with high proficiency.
- Critically analyze building designs considering sensitivity and appreciation for the constructed and natural environments.
- Employ creative exploration, and thoughtful solutions to address challenges of Architectural studies.
- Work collaboratively with fellow peers and various interdisciplinary design teams.
- Apply knowledge concerning diverse subjects of the architectural Realm.
- Adopt Architecture as a profession with high confidence, competitiveness, and appropriate work ethics and character.



**SCAN THIS TO SEE
FACULTY LIST**

Bachelors of Architecture



Program Duration: 5 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission,
Pakistan Council of Architects & Town Planners

Entry Requirements

- 12 Years of Education, Intermediate or 'A' Levels with any of the three subjects from the following; Mathematics, Physics, Chemistry, Computer Science, Statistics, Fine Arts, Economics,
- Psychology, Sociology and Biology, DAE in Architecture only.
- Minimum 50% marks.
- Department Aptitude Test (based on mathematics, creative thinking, writing skills, and drawing) and Interview is mandatory.

INTRODUCTION

The Undergraduate Level, Bachelors of Architecture Degree Program at the University of Lahore, strives to produce graduates that will actively participate in the Contemporary world of Architecture with their diverse perspectives and creative problem-solving abilities. The program aims to offer a diverse interdisciplinary and rigorous curriculum led by an accomplished faculty in a comprehensive studio and classroom

environment. The curriculum balances both creative and technical aspects of Architecture. It will prepare students to develop their abilities in problem-solving, creative thinking, and informed decision-making. Students will be exposed to a body of knowledge that will prepare them to work professionally in any environment both at the national and international levels. The student body belonging to a variety of academic backgrounds will be exposed to experiences and interests by creating an open atmosphere of inquiry and exchange. This will enable them to develop an unrelenting passion and excitement for design and address the issues of both built and natural environments.

CAREER PROSPECTS

The Bachelor of Architecture Degree program prepares the students for professional practice in the following areas:

Employment in Architectural firms, teaching institutions, and real estate development (both public and private sectors).

- Consultation in various dimensions i.e., Architectural Design, Interior Design, Project Management, Buildings construction, and Visualization in Digital Arts and Architecture.
- Establishment of personal business after getting a license from the accreditation council.
- Provision of freelancing services.



ROAD MAP		TOTAL SEMESTERS 10				TOTAL CREDIT HOURS 174	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Basic Design-I	6	Basic Design-II	6	Architectural Design - I	8	Architectural Design - II	8
Visual Communication-I	3	Visual Communication-II	3	Computer Application - I	2	Computer Applications - II	2
History & Philosophy of Architecture-I	2	History & Philosophy of Architecture-II	2	History & Philosophy of Architecture-III	2	Climate & Built Environment	2
Building Materials & Construction-I	2	Building Materials & Construction-II	2	Building Materials & Construction-III	2	Structure For Architects - I	2
Functional English	2	Building Physics	2	Structural Concepts in Architecture	2	Building Services & Systems - I	2
Islamic Studies	2	Pak. Studies	2	Writing & Communication Skills	2	Site Planning	2
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Architectural Design - III	8	Architectural Design - IV	8	Architectural Design - V	8	Architectural Design - VI	8
Computer Applications - III	2	Computer Applications - IV	2	Theory of Architecture - II	2	Computer Applications - V	2
Interior Design	2	Theory of Architecture - I	2	Urban Design - I	2	Research Methodology	2
Building Materials & Construction - IV	2	Working Drawings	2	Landscape Architecture	2	Urban Design - II	2
Structure For Architects - II	2	Building Services & Systems - III	2	Elective	2	Elective	2
Building Services & Systems - II	2	3D Animation & Visualization	2	Elective	2		
SEMESTER 9			CR. HR.	SEMESTER 10		CR. HR.	
Thesis Design - I			8	Thesis Design- II		8	
Building Performance Analysis			2	Elective		2	
Professional Practice & Ethics			2	Elective		2	
Environmental Psychology			2				
Elective			2				
Elective			2				

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ELECTIVES

- Digital Presentation Skills
- Built Environment in Disaster Prone Areas
- Smart Cities
- Energy Efficient Architecture
- Zero Carbon Buildings
- Earth quake Resistant Architecture
- Architectural Conservation
- Urban Area Rehabilitation
- Lighting Design
- Green Buildings

- Construction Law and Contracts
- Cultural Expression in Architecture
- Architectural photography
- Services in Tall Buildings
- Intelligent Buildings
- Barrier-Free Architecture
- Art Appreciation
- Survival Architecture
- Talking Design



Bachelors of Interior Designing

Program Duration: 4 Years
Timing: Morning (Monday-Friday)
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Intermediate or 'A' Levels with any of the three subjects from the following; Mathematics, Physics, Chemistry, Computer Science, Statistics, Fine Arts, Economics, Psychology, Sociology and Biology, DAE in Architecture and Interior Design only.
- Minimum 50% marks.
- Department Aptitude Test (based on mathematics, creative thinking, writing skills, and drawing) and Interview is mandatory.

INTRODUCTION

Interior designing is the arrangement of spaces i.e. organizing, managing, and planning the interiors. The objective of designing space is to achieve functionality and to create the right kind of atmosphere for the right budget. As a degree, it balances theory and practice, experimentation, and planning, creativity, and logic, art, and technology.

Earlier architects would do all the design work, both exteriors and interiors themselves. At present, it has opened the door for a large number of professional interior designers and it has become one of the fastest-growing professional fields. There are lots of employment opportunities for interior designers in various fields. Interior Designers plan as well as redesign the interiors of existing structures that are undergoing renovation or expansion. Interior design practice has become increasingly widespread.

CAREER PROSPECTS

- Interior Design is a very lucrative profession. There are lots of employment opportunities for interior designers in various fields.
- Interior Designers can find employment with architects or architectural firms, builders, public works department, hotel and resort chains, hospitals, town planning bureau, regional and metropolitan development works, private consultancies, studios and theaters and exhibition organizers etc.
- Once they get experienced and make a name, they can also set up their own business.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 138	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Basic Design - I	6	Basic Design - II	6	Interior Design - I	6	Interior Design – II	6
Visual Communication - I	3	Visual Communication - II	3	Computer Application - I	3	Computer Application - II	3
History & Philosophy of Interior & Architecture – I	3	History & Philosophy of Interior & Architecture – II	3	Building Materials & Construction – II	3	Structural Concepts in Interior	3
Functional English	3	Building Materials & Construction - I	3	Color in Design	3	Building Services & Systems	3
Islamic Studies	3	Pak. Studies	3	Writing & Communication Skills	3	Architectural Photography	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Interior Design - III	6	Interior Design - IV	6	Thesis Design - I	6	Thesis Design - II	9
Computer Application - III	3	Landscape in Interiors	3	Research Methods & Report Writing	3	Professional Practice & Project Management	3
Lighting in Interiors	3	Advanced Visualization	3	Conservation for Interiors	3	Cost Estimation	3
Textiles in Interiors	3	Working Drawings	3	Digital Communication	3		
Theory of Interior Design	3	Furniture Design	3				





School of Creative Arts



HoD's MESSAGE

It is my great pleasure and honour to welcome you to The School of Creative Arts (SoCA) at the University of Lahore. We are one of the leading institutions for Media, Film, TV, Animation, VFX and Visual Arts in Pakistan. Our goal is to provide our students with the knowledge and skills necessary to succeed in today's ever-changing media landscape. With our cutting-edge facilities and experienced faculty, we are perfectly positioned to help our students succeed in these industries. We encourage our students to be creative, push boundaries, and strive for excellence. I believe that with hard work and dedication, our students can achieve anything they set their minds to. We live in a world where technology is constantly evolving, and how we consume information is continually changing. It is more important than ever to be creative and innovative to stand out from the crowd. I am confident that our faculty and staff will provide you with the guidance and support you need to reach your full potential as creative professionals.

Syed Atef Amjad Ali

School of Creative Arts
Faculty of Arts and Architecture
University of Lahore



SCAN THIS TO SEE
FACULTY LIST

MISSION STATEMENT

At the School of Creative Arts (SoCA), we recognize the vital importance of fostering creative capacity in our students. Our mission is to improve educational achievements with innovative practices which is the most effective strategy for enabling individual success and helping to shape a more equitable, just, and culturally dynamic society. Whether through art, design, or digital media, creative thinking fosters new perspectives and inspires individuals to see the world in new ways. Creative arts are integral components of any thriving cultural landscape, representing unique forms of expression that allow us to navigate and make sense of the constantly evolving social realities that surround us. Given these profound benefits, SoCA recognizes the essential role in cultivating creativity at every level to prepare our students with the skills they need to thrive in an increasingly complex and challenging world. By enhancing their well-rounded imaginations, encouraging experimentation and critical thinking, and equipping them with the necessary tools to succeed inside and outside academia, SoCA will continue cultivating today's innovative change makers.

INTRODUCTION

The School of Creative Arts (SoCA), University of Lahore, was established in 2010 to provide quality education and training in the field of Visual Arts, Visual Communication Design, Animation, VFX, Film, TV, Media and Communication in Pakistan. The School has since grown exponentially and currently offers degree programs at the Undergraduate and Postgraduate levels, where over 1000+ students are now engaged in the activities of the Media Group housed within the School's facilities giving them the experience of news, television, and film production. The School of Creative Arts (SoCA) is the only facility in Pakistan with two commercial studios, the latest cinematic and television equipment, and a sound studio delivering commercial film sound production. The faculty at SoCA is a highly creative and experienced group of professionals who are actively engaged in their respective fields. The School of Creative Arts is committed to providing an education that develops the technical, theoretical, and creative skills necessary for success in a rapidly changing media landscape. We are dedicated to preparing our students to become tomorrow's leaders in the creative media industry.





Bachelor of Science in Animation and VFX

Program Duration: 4 Years
Timing: Morning (Monday-Friday)
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, HSSE, Intermediate or A-Level with Minimum 45% marks. UOL Entry Test / Interview is mandatory.

INTRODUCTION

The Bachelor of Science (BS) in Animation and VFX degree offered by the School of Creative Arts, University of Lahore, is a four-year undergraduate program that provides training in animation and VFX. The program focuses on creating 2D and 3D animations and visual effects for film, television, video games, and other media. The BS in Animation and VFX degree program is designed to give students a comprehensive education in animation and VFX. The program covers all aspects of the

industry, from pre-production to post-production. Students will learn about storyboarding, character design, modelling, texturing, lighting, rigging, animation, and compositing. In addition, they will also understand the business side of the industry, including project management and marketing. SoCA aims to create a unique, specialized environment and create a pool of artists, animators, VFX artists, and composers with the traditional art background and experience of the most modern software and hardware used in the industry.

CAREER PROSPECTS

The program aims to produce students with theoretical and technical knowledge that can be utilized in the Animation and VFX industry in Pakistan and around the world.

2D/3D Character Animator, Concept artist, Modeller, 3d generalist, Matte Painter, 3D Tracking Artist, Rotoscope Artist, Lighting/Rendering Artist, Effect Animator.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP	TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 132		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
History of Art and Design	3	History of Film and Television	3	Advance Drawing	3	Fundamentals of Sound	3
History of Media & Communication	3	History of Animation and VFX	3	Islamic Studies	3	Introduction to Research	3
Foundation Drawing	3	Introduction to Semiotics	3	Performance for Theatre	3	VFX Fundamentals	3
Digital Tools - I	3	Digital Tools - II	3	Pakistan Studies	3	Storytelling and Narrative	3
Digital Production Principles - I	3	Digital Production Principles - II	3	Principles of Animation - I	3	Principles of Animation - II	3
Communication & Presentation Skills	3	Reading and Writing Skills	3	Academic Reading and Writing	3	Concept Art and Character Design	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
2D and 3D Animation - I	3	2D and 3D Animation - II	3	Advance VFX and Animation	3	Final Project/Thesis	6
Digital Cinematography	3	Performance for Animation	3	Producing Animation	3	Digital Media Distribution	3
Digital Editing	3	Sound for Visual Media	3	Digital Color Grading	3		
Scriptwriting for Animation	3	Storyboarding and Previsualization	3	Production Design	3		
Sound Recording and Editing	3	Mini Thesis/Project	3	Extended Reality (AR, VR, MR)	3		
Research Methodologies - I	3	Research Methodologies - II	3				

Bachelor of Science in Visual Communication Design



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, HSSE, Intermediate or A-Level with Minimum 45% marks. UOL Entry Test / Interview is mandatory.

INTRODUCTION

The Bachelor of Science (BS) in Visual Communication Design offered by the School of Creative Arts focuses on competing with the most cutting-edge visual communication design approaches worldwide through digital and new media technology tools. This program concentrates on design and communication, with a particular emphasis on visual communication. Students will learn how to apply design theory, research, and practice to solve real-world problems. The curriculum is built upon a solid foundation with unique and collective theory and studio courses that encourage students to feel involved with the coursework. Students study,

experiment, and explore design, colour, typography, interactive design, UI & UX narratives, game design, dynamics of visual communication design, and much more with a multi-disciplinary approach. Our Diverse program allows pupils to gain experience to think critically, form theories, and conduct experiments with a wide range of media.

CAREER PROSPECTS

The program aims to produce students with theoretical and technical knowledge that can be utilized in the animation and VFX industry in Pakistan and around the world.

Interface Design, UI/UX, Advertising, Animation, Broadcast / TV Graphics, Design Education, App Design/ Development, Art Direction, Brand Strategy, Creative Copy Writing, Corporate Design, Design Activism, Editorial, Book Illustration & Display Design, Multimedia Design, Print and Publication Design, Packaging Design, Service Design, Web Design.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08		TOTAL CREDIT HOURS 132			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
History of Art and Design	3	History of Film and Television	3	Advance Drawing	3	Fundamentals of Sound	3
History of Media & Communication	3	History of Animation and VFX	3	Islamic Studies	3	Introduction to Research	3
Foundation Drawing	3	Introduction to Semiotics	3	Performance for Theatre	3	Typography Studio	3
Digital Tools - I	3	Digital Tools - II	3	Pakistan Studies	3	Storytelling and Narrative	3
Digital Production Principles - I	3	Digital Production Principles - II	3	Principles of Animation - I	3	Principles of Animation - II	3
Communication & Presentation Skills	3	Reading and Writing Skills	3	Academic Reading and Writing	3	Art and Psychology	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
2D and 3D Animation - I	3	2D and 3D Animation - II	3	Contemporary Design Studio - II	6	Final Project/Thesis	9
UX-UI Design	3	Political Imagery and Design	3	Extended Reality (AR, VR, MR)	3	Curation - II	3
Contemporary Design Studio - I	3	Sound for Visual Media	3	Global Art and Design Practices	3		
Contemporary Art and Anthropology	3	Mini Thesis/Project	3	Curation - I	3		
The Geometry of Nature	3	Research Methodologies - II	3				
Research Methodologies - I	3						





Bachelor of Fine Arts in Visual Arts

Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, HSSE, Intermediate or A-Level with Minimum 45% marks. UOL Entry Test / Interview is mandatory.

INTRODUCTION

The Bachelor of Fine Arts (BFA) in Visual Arts Program at the School of Creative Arts (SoCA) is a gateway to interdisciplinary creative fields essential to creating visual culture globally. This course examines the theory and practice of artistic development from local and global perspectives while including fundamental, experiential, research, and critical approaches to the field. Students will exhibit a high level of technical proficiency and historical/theoretical understanding to situate their work within the broader field of contemporary art. The Visual Arts

Program is committed to providing students with an excellent education that balances technical skills, conceptual thinking, and critical engagement. We believe that artists must be fluent in the language of their chosen field and have a strong understanding of the historical, social, and political contexts in which they operate. The program provides a foundation for students wishing to pursue careers in the arts, whether as practicing artists, designers, educators, or administrators.

CAREER PROSPECTS

The program aims to produce students with theoretical and technical knowledge that can be utilized in the Visual Arts industry in Pakistan and around the world.

Visual Artist, Painter, Performance Artist, Photographer, Printmaker, Sculptor, Public Arts, Theatre Set Designer, Video Artist, Art Administrator, Curator, Multimedia Artist, Entertainment Industry, Art Director, Exhibition and Event Designer, Film and TV, Installation Artist, Interior Designer, Landscaping artist, Advertising.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 132	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
History of Art and Design	3	History of Film and Television	3	Advance Drawing	3	Study of Museums and Galleries	3
History of Media & Communication	3	History of Animation and VFX	3	Islamic Studies	3	Introduction to Research	3
Foundation Drawing	3	Introduction to Semiotics	3	Performance for Theatre	3	Art and Ecology	3
Digital Tools - I	3	Digital Tools - II	3	Pakistan Studies	3	Art and Psychology	3
Digital Production Principles - I	3	Digital Production Principles - II	3	Sculpture	3	Art and Society	3
Communication & Presentation Skills	3	Reading and Writing Skills	3	Academic Reading and Writing	3	History of Modern Art and Design	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Contemporary Art Studio - I	3	Contemporary Art Studio - II	6	Contemporary Art Studio - III	6	Final Project/Thesis	12
Methods of Self Critique	3	Political Imagery and Design	3	Global Art & Design Practices	3	Curation - II	3
The Untitled	3	Mini Thesis/Project	3	Curation - I	3		
Research Methodologies - I	3	Research Methodologies - II	3				
Contemporary Art & Anthropology	3						
The Geometry of Nature	3						



Bachelor of Arts in Film and Television

Program Duration: 4 Years
Timing: Morning (Monday-Friday)
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

- Entry Requirements**
- 12 Years of Education, HSSE, Intermediate or A-Level with Minimum 45% marks. UOL Entry Test / Interview is mandatory.

INTRODUCTION

The Bachelor of Arts (BA) in Film and Television program at the School of Creative Arts, University of Lahore, is a comprehensive program focused on the historical, theoretical, technological, creative, and practical aspects of the expansive field of Film and Television. The digital media age has transformed how films are produced, edited and distributed; therefore, the coursework for this program has been updated to include new concepts, technologies and processes. The student will learn to design and create digital media content across various digital platforms, from film, media, OTT, and new emerging technologies such as Extended

Reality (XR). The program is a rigorous, multi-disciplinary film and television degree with a strong focus on understanding the latest digital media technology and the cultural, historical, and technological influences shaping the media landscape worldwide. Students also learn about digital cameras, software and techniques used in filmmaking, and traditional film production methods.

CAREER PROSPECTS

The program aims to produce students with theoretical and technical knowledge that can be utilized in the Film and TV Production industry in Pakistan and around the world.

Director, Producer, Director of Photography (DOP), Casting Director, Screenwriter, Line Producer, Production Coordinator, Costume Designer, Production Designer, Set Decorator, Prop Master, Digital Imaging Technician, Gaffer, Script Supervisor, Sound Recorder, Sound Mixer, Editor, Colorist, Music Editor, Post-Production Supervisor.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 132	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
History of Art and Design	3	History of Film and Television	3	Visual Structure for Film, TV and Digital Media	3	Experimental Film	3
History of Media & Communication	3	History of Animation and VFX	3	Islamic Studies	3	Film Theory	3
Foundation Drawing	3	Introduction to Semiotics	3	Performance for Theatre	3	Fundamentals of Sound	3
Digital Tools - I	3	Digital Tools - II	3	Pakistan Studies	3	Performance for Screen	3
Digital Production Principles - I	3	Digital Production Principles - II	3	Introduction to Film	3	Storytelling and Narrative	3
Communication & Presentation Skills	3	Reading and Writing Skills	3	Academic Reading and Writing	3	Introduction to Research	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Digital Cinematography	3	Documentary	3	World Cinema	3	Final Project/Thesis	6
Research Methodologies - I	3	Digital Colour Grading	3	Producing Film	3	Digital Media Distribution	3
Screenwriting	3	Sound for Visual Media	3	Production Design	3		
Sound Recording and Editing	3	Research Methodologies - II	3	OTT Content Production	3		
Digital Editing	3	Mini Thesis/Project	3	Branded Content Production	3		
Film and Literature	3	Film Aesthetics	3				





Bachelor of Science in Media and Mass Communication

Program Duration: 4 Years
Timing: Morning (Monday-Friday)
Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

- Entry Requirements**
- 12 Years of Education, HSSE, Intermediate or A-Level with Minimum 45% marks.
 - UOL Entry Test / Interview is mandatory.

INTRODUCTION

The Bachelor of Science (BS) in Media and Mass Communication Studies offered by the School of Creative Arts at the University of Lahore is a 4-year undergraduate program focused on various media and mass communication theories and practices. It is an extensive degree with a balance of theory and practice focused on the historical context of media and mass communication. The BS program has been revised to update the current digital and new media technology trends. The

program provides students with a strong foundation in media and mass communication concepts, theories, and practices, preparing them for careers in various fields such as journalism, advertising, public relations, film/television production, and new media. The program also offers students the opportunity to gain practical experience through internships and other hands-on learning opportunities. The BS in Media and Mass Communication Studies at the University of Lahore is an excellent choice for students interested in pursuing a career in the media industry.

CAREER PROSPECTS

The program aims to produce students with theoretical and technical knowledge that can be utilized in the Media and Mass Communication industry in Pakistan and around the world.

Digital Media Producer, Media Planner, Media Buyer, Media Analyst, Media Strategist, Media Planner, Media Buyer, Communication Strategist, Social Media Strategist.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 132	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
History of Art and Design	3	History of Film and Television	3	Media and Communication Theories - I	3	Advertising and PR	3
History of Media and Communication	3	History of Animation and VFX	3	Islamic Studies	3	News Reporting - I	3
Foundation Drawing	3	Introduction to Semiotics	3	Performance for Theatre	3	Media and Communication Theories - II	3
Digital Tools - I	3	Digital Tools - II	3	Pakistan Studies	3	Introduction to Research	3
Digital Production Principles - I	3	Digital Production Principles - II	3	News and Current Affairs	3	Statistics	3
Communication and Presentation Skills	3	Reading and Writing Skills	3	Academic Reading and Writing	3	Storytelling and Narrative	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Screen Performance for Media	3	Media Law and Ethics	3	Propaganda and Post Truth	3	Final Project/Thesis	6
News Reporting - II	3	Writing for Digital Media	3	Crisis Communication	3	Digital Media Distribution	3
Journalistic Writing	3	Documentary	3	Data Journalism	3		
Research Methodologies - I	3	Podcasting & Radio Production	3	News and Current Affairs Production	3		
Media, Culture and Society	3	Mobile Journalism	3	Media Seminar	3		
Media Psychology	3	Research Methodologies - II	3				

Master of Philosophy in Media & Mass Communication Studies (Research Track)



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, in relevant field, preference will be given to candidates having BS, M.A & M.Sc in Mass and
- Professionals working in Media Industry with CGPA 2.5 / 4.0 Minimum 50% marks.
- UOL Entry Test / Interview is mandatory.

ELECTIVES

- Philosophy of Social Sciences
- Mass Media and Culture and Society
- International Communication
- Advanced Development Communication
- Theories of Influence on Media Content
- Digital Media
- Semiotics
- Media and Politics

INTRODUCTION

The MPhil program in Media and Mass Communication Studies (Research Track) started in 2015 offers a rigorous examination of topics at the intersections of media and culture. Our research and curriculum emphasize the study of Mass Communication, information management and new technologies, media history, and research methodologies. The overall objective of the program is to give deeper and critical insights into developments in the field and make students qualified for independent and advanced work inside and outside of media organizations.

CAREER PROSPECTS

The program trains agile researchers able to think critically and deeply about rapidly changing Media industries, technologies, and cultures. You will work with leading faculty from a wide variety of media studies disciplines. Program builds careers as astute analyzers of media, navigating new and complex domains.



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04		TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3-4	CR. HR.
Approaches to Mass Communication Studies-I	3	Approaches to Mass Communication Studies-II	3	Dissertation/Thesis	6
Communication Research Methods-I	3	Communication Research Methods-II	3		
Elective	3	Elective	3		
Elective	3	Seminar	3		



Master of Philosophy in Media & Mass Communication Studies (Professional Track)



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, in relevant field, preference will be given to candidates having BS, M.A & M.Sc in Mass and
- Professionals working in Media Industry with CGPA 2.5 / 4.0 Minimum 50% marks.
- UOL Entry Test / Interview is mandatory.

ELECTIVES

- Philosophy of Social Sciences
- Mass Media and Culture and Society
- International Communication
- Advanced Development Communication
- Theories of Influence on Media Content
- Digital Media
- Semiotics
- Media and Politics

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

INTRODUCTION

The Mphil program in Media and Mass Communication Studies (Production/Professional Track) started in 2015 offers you the opportunity to study media production and performance, media analysis, media business and entrepreneurship and emergent media in the context of rapidly converging industries. The course outline is concerned with the historical, theoretical, and cultural contexts within which audio, video; film, new media, and popular culture are produced and experienced.

CAREER PROSPECTS

The degree enables the student to develop individual talent and the ability for the student to work in collaboration with others within a diverse and vibrant community. Thus providing a high production standard possible, thereby allowing students the ability to create portfolios. That enables them to understand the media and how it influences people.



ROAD MAP		TOTAL SEMESTERS 04		TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3-4	CR. HR.
Theory and Practice of Public Relations & Advertising	3	Television : Writing & Production Techniques (with Project)	3	Dissertation/Thesis	6
Research Methods	3	Film: Writing & Production (with Project)	3		
Case Studies : PR & Advertising	3	Optional Course (To be Chosen from 08 Courses)	3		
Radio : Writing & Production Techniques	3	MPhil Seminar	3		

DEAN's MESSAGE

Welcome to the University of Lahore, College of Law! Ours is an exceptional and engaged community, and I am pleased to introduce you to it. College of Law is celebrated for its brilliant faculty; it is their profound commitment to intellectual inquiry in law that sets them apart. For us, teaching is a privilege especially when it comes to the opportunity to teach first-year students. The staple of our Law college's mission is to provide students with finest legal training and the same is not possible without easy access of students to our stellar faculty, who are ever ready to guide them. Using rigorous classroom instructions and in-depth practical experiences, we are preparing our students for the practice of law in an ever-changing legal profession. We strive for a dynamic and comprehensive academic life, that is enriched by the aptitudes, vitality, and diversity of our students and faculty. We have unique teaching programs which provide students with an extensive and engaging range of educational opportunities, whereas our research projects have an extraordinary breadth and depth, as reflected in our various research hubs and initiatives. We train our student to specialize in various law fields, that will help them outclass other opponent lawyers in practical life, including Civil Procedure Code, Criminal Procedure Code, Constitutional law, Law of Evidence, Alternate Dispute Resolution, Corporate laws, International laws, Anti-corruption laws, Cybercrime laws, Environment laws and Space laws. When you come to study at the College of law, you will join a unique blend of student body that is intensely committed to learning of law, developing life-long friendships and professional relationships. Since the establishment of College of Law in 2011, we have always tried to figure out fresh and improved ways to carry out our mandate of legal education and research. That consequently blessed us with a remarkable legacy of accomplishments, built by timeless efforts of alumni and staff. I invite you to learn more about our College of Law through our prospectus and website. And please, don't hesitate to reach out to me directly mohammad.bilal@law.uol.edu.pk or schedule a visit to our beautiful campus. Many thanks for taking the time to look at us. All of us at the College of Law look forward to meeting you.

Mr Justice M Bilal Khan
Former Judge of Lahore
High Court & Chief Justice
of Islamabad High Court



DEPARTMENTS

- College of Law
- Postgraduate Institute of Law



HoD's MESSAGE

The College of Law places the maximum emphasis on research work backed by law moots which is a tool to sharpen the advocacy skills of law students. We have highly qualified faculty. College of Law focus on not only giving the young scholars the necessary tools to begin a legal career but also to add to their knowledge new vision to become a Law giver/Criminologist. College of law through its 4-year program of Bachelor of Science in Criminology program and 5-year Bachelor program BALLB aims to give this knowledge to young minds to pursue a career in judiciary, legal profession F.I.A, NAB, Police department and in anti-corruption department. Our mission is also to cultivate a new generation of law giver and Criminologist who will find the root causes of crime and its eradication by portraying the true picture of Criminal psychology and their behavior and to get them punished from the court of law. The object of Criminology is to kill the crime and not the criminal. The main goal of Criminology is to prevent the occurrence of crime, to punish the criminals and to rehabilitate the transgressors and criminals. The undergraduate study in bachelor of law relates to trial of the accused and BS Criminology is the study of crime, deviance and criminal justice system including law enforcement agencies, investigation, prosecution, court and correctional institutions.

Mian Tariq Javed
Vice Principal/HOD

MISSION STATEMENT

To cultivate a new generation of lawyers who will help the stagnant legal society to evolve, to match the high international standards and revolutionize the legal profession with their acquired knowledge and skills. They will not only build a bright future for themselves but will also help the country as well by providing up to date guidance to the government and the ordinary people. Suitable for industry executives, bank executives, engineers, health service professionals, public departments and educationist who seek to complement their existing degrees with a PG Diploma, B.Com or M.Com. These degrees will ensure career advancement and provide an understanding of the changing business environment.

INTRODUCTION

Law is a field, which is in a state of constant evolution, given the frequent changes in the mindsets and ideas throughout the world. Given its fluid nature, it becomes a highly competitive arena. Lawyers are expected to be highly adaptive to new situations and their problem-solving skills ought to be exemplary. These skills obviously do not come to them naturally; rather they have to be acquired through the legal knowledge gained through education. College of Law, through its Bachelors program, aims to give this knowledge to young minds, if they seek to pursue a career in the legal profession. Pakistan's legal society is large only the most hard-working and able minded prevail over the others and for them, there are no limits to what they can achieve through this profession. The extensive courses offered by the College of Law focus on not only giving the young scholars the necessary tools to begin a legal career but are also designed to add to their knowledge so that their vision increases vis-à-vis other aspects of life. Given the fact that law is inextricably intertwined with all other fields of activity. The College proposes to achieve this goal in the highest standard with the help of senior practitioners of Law who will not only teach the students but also offer their personal expertise to help them to understand law and its practice much more effectively.



SCAN THIS TO SEE
FACULTY LIST

Bachelor of Law



Program Duration: 5 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission, Pakistan Bar Council

Entry Requirements

- 12 Years of Education, FA /FSC or GCE A-Levels or Equivalent with Minimum 2nd Division and & Law Admission Test (LAT) by HEC is compulsory with 50% marks.
- HEC LAT Entry Test mandatory / Interview (Optional) .

INTRODUCTION

Our LLB degree is in accordance with the guidelines and requirements of the HEC and Pakistan Bar Council. This will be an academic as well as professional degree in law and legal studies. The courses recommended

by the Pakistan Bar Council as basic courses for joining legal profession are part of the curriculum.

CAREER PROSPECTS

To become a part of the esteemed legal profession as a lawyer or the part of the judiciary and change the face of the field in Pakistan. Graduates may also choose to expand their horizons to legal professions outside the country.

ELECTIVES

- Consumer Protection Laws
- Labor Laws
- Islamic Commercial Laws
- Civil Service Laws In Pakistan

INTERNSHIP

After completion of 8th semester during vacations

Note: In Semester-9th and 10th students will be required to take two of the elective courses in the list of Elective Courses.

ROAD MAP		TOTAL SEMESTERS 10				TOTAL CREDIT HOURS 163	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English-I	3	English-II	3	English-III	3	Human Rights Law	3
Pakistan Studies	2	Islamic Studies / Ethics	2	Introduction to Logic and Reasoning	3	Constitutional Law-II (US)	3
Introduction to Sociology	3	Principles of Political Science	3	Islamic Jurisprudence-1	3	Law of Contract-II	3
Fundamentals of Economics	3	Legal System of Pakistan	3	Law of Torts-II	3	Islamic Jurisprudence-II	3
Introduction to Law	3	History (South Asia)	3	Law of Contract-I	3	Introduction to Psychology	3
Skills Development	3	Law of Torts-I	3	Constitutional Law-I (UK)	3		
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Jurisprudence-I	3	Jurisprudence-II	3	Public International Law-I	3	Public International Law-II	3
Constitutional Law-III (Pakistan)	3	Law of Business Organizations	3	Constitutional Developments in Pakistan	3	Equity and Specific Relief	3
Islamic Personal Law-I	3	Islamic Personal Law-II	3	Civil Procedure-I	3	Civil Procedure-II	3
Criminal Law-I	3	Criminal Law-II	3	Criminal Procedure-I	3	Criminal Procedure-II	3
Law of Property	3	Land Laws	3	Law of Evidence-I	3	Law of Evidence-II	3
				Legal Drafting-I	3	Legal Drafting-II	3
SEMESTER 9			CR. HR.	SEMESTER 10		CR. HR.	
Research Methodology			3	Administrative Law		3	
Minor Acts			3	Interpretation of Statutes and Legislative Drafting		3	
Moot Cases And Professional Ethics			3	Research Project		3	
Banking Laws			3	Consumer Protection Laws		3	
Medical And Forensic Laws			3	Intellectual Property Laws		3	
Labour Laws			3	Environmental Laws		3	
				Alternate Dispute Resolution		3	
				Taxation Laws		3	



Bachelor of Science in Criminology



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, FA /FSC or GCE A-Levels or Equivalent with Minimum 2nd Division or 45% marks.
- UOL Entry Test mandatory / Interview (Optional) .

INTRODUCTION

The major objective of this program is to provide the students with hands- on-training in the specialized fields of criminology such as forensic criminology, criminal and juvenile justice systems, criminal investigation, geographic crime analysis, crime mapping and security related issues through its extensive internship program. Special focus

has been given on developing research skills. Students are required to carry out research project/thesis to uncover the major issues related to the field of criminology.

CAREER PROSPECTS

Graduates may also choose to expand their horizons to legal professions outside the country students. After completing the degree of BS Criminology students may apply in following departments:

- F.I.A
- NAB
- Police Department
- Anti Corruption Department

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 8			TOTAL CREDIT HOURS 127		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English-I	3	English-II	3	English-III	3	English-IV	3
Pakistan Studies	3	Islamic Studies / Ethics	3	Introduction to Computer	3	Organizational Behaviour and Human Resource Development	3
Stat-I	3	Stat-II	3	Social Problems of Pakistan	3	Juvenile Delinquency	3
Sociology	3	Introduction to Law	3	Media Studies	3	Criminal Psychology	3
Social Psychology	3	Economics	3	Theoretical Perspectives on Crime and Criminals	3	Islamic Perspective on Crime and Punishment	3
Introduction to Criminology	3	Sociology of Deviance	3				
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Applied Criminology	3	Patterns of Crime	3	Procedures of Evidence in Criminal Law	3	Thesis/Research Project	3
Criminal Justice System	3	Research Methodology-I	3	Research Methodology –II	3	Community Justice and Crime Prevention	3
Penology	3	Forensic Criminology	3	Organized Crime and Money Laundering/ Peace and Conflict Resolution	3	Methods of Criminal Investigation	3
Crime and Security	3	Police & Policing	3	Mass Media and Crime/ Cyber Crime	3	Drug Abuse and Related Crimes/ Human Rights	3
Correctional Institutions	3	Victimology	3	Internship	3	Women and Crime/ Violence and Terrorism	3



HoD's MESSAGE

It is our mission at PIL to strive for excellence in educating professionals with an eye towards latest trends to ensure that our graduates are ready to take on emerging challenges in the field of law. Our curriculum is designed to equip students with the skills necessary to use the academic knowledge in practice. In order to achieve our objective, we will sponsor a series of conferences, workshops and seminars on the emerging trends in field of law. Such events will provide a platform for students of law to learn from renowned scholars from academia, judiciary, government and private practice. It will also allow for a number of network opportunities for students to foster new friendships and bonds that will last a lifetime.

Amir Zafer Khan

MISSION STATEMENT

To cultivate a new generation of lawyers who will help the stagnant legal society to evolve, to match the high international standards and revolutionize the legal profession with their acquired knowledge and skills. They will not only build a bright future for themselves but will also help the country as well by providing up to date guidance to the government and the ordinary people. Suitable for industry executives, bank executives, engineers, health service professionals, public departments and educationist who seek to complement their existing degrees with a PG Diploma, B.Com or M.Com. These degrees will ensure career advancement and provide an understanding of the changing business environment.

INTRODUCTION

At PIL, we are dedicated to absolute top-tier education. And we are equally devoted to using our extensive intellectual capital to help resolve real-world problems and to create a more just society. One of our distinct features is to foster an environment where our students and faculty partner with people beyond the school: identifying challenges, forging alliances, solving problems, and sparking change. Our highly distinguished faculty prepares our students for careers in a world of swift change, intricacy, and opportunity. At PIL, we meet this formidable challenge by offering a curriculum that offers a solid legal and ethical foundation, enriched by courses in emerging fields and practical experience. We train our students to think and reflect critically, carefully, and thoughtfully and we do better than any other institution. The education and training you will receive as a PIL Law student is unrivalled, and private and public employers alike will be eager to have you as part of their teams. Come visit us and let us show you why our students and faculty are so content and satisfied to be here.



SCAN THIS TO SEE
FACULTY LIST



Master of Laws



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road, Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- Law Degree , J.D., LL.B., LL.B. (Hons), BA/LL.B., or equivalent) from HEC Recognized Institute with Minimum 2.5/4.00 CGPA or 50% marks under semester system or 2nd Division (45% marks) under annual system.

INTRODUCTION

LL.M program is designed to develop sound theoretical knowledge of the subject and its application. This program helps the students to grasp tools and skills for advanced studies leading to Ph.D. Furthermore, it aims to disseminate comprehensive knowledge focused at advance legal issues.

CAREER PROSPECTS

To become a part of the esteemed legal profession as a lawyer or the part of the judiciary and change the face of the field in Pakistan. Graduates may also choose to expand their horizons to legal professions outside the country.

ELECTIVES

- Law of Evidence
- Human Rights
- Constitutional Law
- Criminology
- Corporate Law
- Research Methodology
- Comparative Study of Islamic and Western Jurisprudence
- Comparative Study of Constitution
- Administrative Law
- Alternate Dispute Resolution
- Commercial Law
- International Trade Law
- International Economic Law
- Islamic Law
- Intellectual Property
- Constitution of Pakistan
- Business Law
- Labour Law
- Law of Taxation
- Environmental Law
- Banking Law
- International Institution
- Thesis

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP (With Thesis)		TOTAL SEMESTERS 04			TOTAL CREDIT HOURS 30		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.

Research Methodology (Thesis)	4	Optional Course	4	Optional Course	4	Thesis	6
Optional Course	4	Optional Course	4	Optional Course	4		

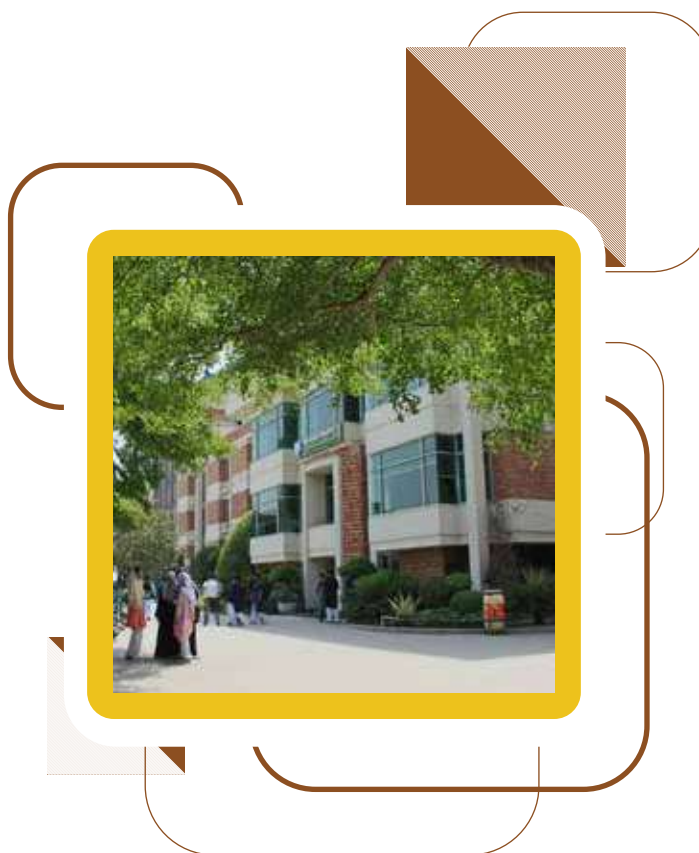
ROAD MAP (Without Thesis)		TOTAL SEMESTERS 04			TOTAL CREDIT HOURS 32		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.

Optional Course	4	Optional Course	4	Optional Course	4	Optional Course	4
Optional Course	4	Research Methodology	4	Optional Course	4	Optional Course	4

DEAN'S MESSAGE

A social science is any branch of academic study that deals with human behaviour in its social and cultural aspects. The seven social sciences (anthropology, economics, geography, history, political science, psychology, and sociology) possess their own importance and influence. In a study conducive environment, we encourage our students and faculty to develop a firm resolve to understand ourselves as human beings, our interdependence on each other and the trends of cooperation and conflict that influence our mutual existence. We also endeavour to rectify the passage between "self" and "collective. It is our hope and belief that through an innovative style we will be able to promote peace and compassion through learning. We intend to create indigenous sociological knowledge and apply professional research skills to influence social policies for desirable social change in our own cultural domain. This has the aim of improving our social and cultural environment and raising the quality of life in Pakistan. The Department of Social Sciences at UOL is a student-centered and research-oriented institution mainly relying on discovery, application and sharing of knowledge. High quality programs offered focus at imaginative edification and society uplift. Students are expected to pursue knowledge that is good for the diverse needs of social organizations and human societies. The set goals include provision of bright careers in academia and administrative, production of managerial leaders and promotion of a wide range of professional and scholarly activities. We design the entire activity as a remover of traditional scars and a promoter of endless social beauty.

Prof. Dr. Naseer Ahmad Akhtar



DEPARTMENTS

- Islamic Studies
- Economics
- Social Sciences
- Education



HoD's MESSAGE

Pursuit of Islamic education and learning constructs a spiritual blend of ethical contribution and pragmatic response to the threats posed by modern day challenges such as stigma of terrorism and fundamentalism. The department trains the students to develop Islamic values, social morals, ethics and skills that help to play a diligent part in all avenues of life to build a cohesive, proud and sovereign nation. The syllabus thus designed fully aims at restoration of true and classical Islamic education that is the pivot of an exemplary Islamic society. Department of Islamic Studies aims to be recognized as the Islamic world knowledge hub that promotes world class research, teaching and learning environment by some highly conceptual and practical research programs led by an efficient faculty including as many as seventeen PhDs for competent and efficient students. It intends to enable students to serve as truly faithful Muslims according to the pattern of Allah's Messenger and his Companions, act graciously and patiently; condemn sectarian violence and answer the tough contemporary propositions in a prophetic manner and with monumental prudence. The department tries to wipe of the innovations and unveils the innocent, flawless Islam conveyed and practiced by the Holy Prophet (P.B.U.H). The ingredients include commitment to respect, care for and serve others; an Islam secured not by attachment to communal identity but by attachment to Allah. The department wants to develop and support harmony between different religions and sects of society and to relate to others with tolerance, respect and consideration, whatever their beliefs and attitudes may be.

Prof. Dr. Naseer Ahmad Akhtar

MISSION STATEMENT

Produce such learned scholars for society who have grip on the tradition and may have a mature understanding of the contemporary issues with a clear and perfect skill in the modern thoughts and academic approaches.

INTRODUCTION

Modern times have brought many new challenges for humanity and especially for Muslim world. These challenges are both at home and at international level. But it is unfortunate that traditional institutions have failed in genuine contribution for the solution of prevalent problems and proper response to the contemporary challenges. Furthermore, the traditional religious institutions have created a divide in the society. The new generation educated through modern educational institutes and universities and those who are trained in traditional religious madrassas are poles apart in their understanding of Islamic teachings and their approach towards contemporary issues too. A comprehensive course which may have merits of both of these systems can bridge the gap. The University of Lahore has established the Department of Islamic Studies with the same vision and objectives that we may produce such learned scholars for society who have grip on the tradition and may have a mature understanding of the contemporary issues with a clear and perfect skill in the modern thoughts and academic approaches. These scholars will be able to present Islam in accordance with its real spirit before society.



SCAN THIS TO SEE
FACULTY LIST

Bachelor of Islamic Studies



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Intermediate with minimum 2nd Division from any recognized educational board from Govt. of the Pakistan or Assanwia Alkhasa with equivalence certificate issued by recognized authority.

INTRODUCTION

The Bachelor of Study (BS) program in Islamic Studies is four year (eight semesters) program. It is focused to build strong foundation in Islamic Studies and develop capacities and capabilities exhibiting leadership qualities to serve the nation and human. The students are well prepared for specialized career and the foundation needed for advanced studies.

CAREER PROSPECTS

The program aims at multidimensional objectives for placement of our graduates, including, career in education, financial institutions working according to Sharia laws & teaching and research institutions. Our students are well accepted in education and public sector jobs.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08			TOTAL CREDIT HOURS 142		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English-I (EW-I)	3	English-II (EW-II)	3	English-III (EW-III)	3	Tafseer-I	3
General Science / Environmental Studies (NC-I)	3	Food & Nutrition / Behavioral Science (NC-1)	3	Pakistan Studies	3	Usool e Tafseer	3
Sociology / Psychology (SS-I)	3	Economics / International Relations (SS-II)	3	Islamic Studies	3	Introduction to World Religions	3
Math / Stat (QR-I)	3	Introduction to Computer (QR-II)	3	Textual Study of Hadith-I (80 selected Ahadith from Moatta Imam Malik & Musnad Ahmad)	3	Seerah of the Prophet ﷺ (Khatam u Nabiyyeen)	3
Arabic Language-I (AH-I)	3	Al-Dawah wal Irshad	3	Usool e Hadith	3	Aqeeda	3
Translation of Holy Quran	1 (L)	Arabic Language-II (AH-II)	3	Translation of Holy Quran	1 (L)	Fiqh-I	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Tajweed	3	Tafseer II	3	Tafseer III	3	Tafseer IV	3
Textual Study of Hadith-II (80 selected Ahadith from Sunan Nisai & Sunan Ibn e Maja)	3	Fiqh-II	3	Textual Study of Hadith-III (80 selected Ahadith from Sunan Abu Daud & Jame' Tirmizi)	3	Textual Study of Hadith-IV (80 selected Ahadith from Sahih Bukhari & Sahih Muslim)	3
History of Khulafa e Rashideen	3	Principles & History of Fiqh	3	Research Methodology	3	Elective – I	3
Translation of Holy Quran	1 (L)	Authenticity of Sunnah	3	Translation of Holy Quran	1 (L)	Elective – II	3
Elective – I	3	Elective – I	3	Elective – I	3	Thesis	6
Elective – II	3	Elective – II	3	Elective – II	3		





Master of Philosophy in Islamic Studies

Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, Master degree in Islamic studies with Minimum 2nd Division (50% marks) under annual system.
- B.S Islamic Studies or BS Arabic 4 Years with Shariah Subjects from HEC recognized Institution with Minimum 2.5/4.0 CGPA in semester system.
- Al-Shahadat ul-Alamiyya with Equivalent Certificate from HEC.

INTRODUCTION

Islam is a religion of peace, moderation and progression, but the Western media paints a negative image of our faith and is presenting it as synonymous with terrorism. Muslim seminaries-where learners are exposed to the classical Islam cut off from the contemporary world-have not risen to the challenge. It is against this back drop of rigidity of the religious class that this university proposes to acquaint students with Islam teachings in a moderate environment so that they may portray the belief appropriately.

CAREER PROSPECTS

MPhil in Islamic Studies is an intensive programme that gives us a thorough understanding of Islamic teachings and thoughts. It encourages learners to be inquisitive by engaging in Islamic research projects. The department aims at realizing the long cherished dream of striking a balance between

the pristine values of Islam as outlined in the Holy Qur'an and the Sunnah, and the practical challenges of modern times. We try to cultivate a spirit of dispassionate research bringing about chiselled minds firm in belief but endowed with tolerance without, of course, being apologetic. The highly qualified academicians have been engaged to focus on achieving excellence in education-cum-research. The faculty will contribute to the intellectual, cultural and social development of the institution.domains.



Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04		TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3 & 4	CR. HR.
Quranic Sciences	3	Hadith	3	Dissertation	6
Fiqh-UI-Seeraha-An-Nabavia	3	Islamic Jurisprudence & History	3	OR	
Research Methodology	3	Islam & Modern Thoughts	3	Comparative Study of Religion	3
Functional English	3	Arabic Language and Literature	3	Human Rights in Islam and West	3



Doctor of Philosophy in Islamic Studies

Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BS/MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.

striking a balance between the pristine values of Islam as outlined in the Holy Qur'an and the Sunnah, and the practical challenges of modern times. We try to cultivate a spirit of dispassionate research bringing about chiselled minds firm in belief but endowed with tolerance without, of course, being apologetic. The highly qualified academicians have been engaged to focus on achieving excellence in education-cum-research. The faculty will contribute to the intellectual, cultural and social development of the institution.

INTRODUCTION

Islam is a religion of peace, moderation and progression, but the Western media paints a negative image of our faith and is presenting it as synonymous with terrorism. Muslim seminaries—where learners are exposed to the classical Islam cut off from the contemporary world—have not risen to the challenge. It is against this back drop of rigidity of the religious class that this university proposes to acquaint students with Islam teachings in a moderate environment so that they may portray the belief appropriately.

CAREER PROSPECTS

PhD in Islamic Studies is an intensive programme that gives us a thorough understanding of Islamic teachings and thoughts. It encourages learners to be inquisitive by engaging in Islamic research projects. The department aims at realizing the long cherished dream of



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Quranic Sciences-I	3	Hadith Sciences-I	3	Quranic Sciences-II	3	Hadith Sciences-II	3	Research Work	30
Fiqh-us-Seera	3	Islamic Jurisprudence & History	3	History of Muslim Thoughts	3	Principles of Islamic Jurisprudence	3		
Research Methodology (Qualitative)	3	Islam & Modern Thoughts	3	Research Methodology (Quantitative)	3	Contemporary Issues & Islam	3		
Arabic Language and Literature	3	Functional English	3	Comparative Study of Religion or Orientalism	3	Human Rights in Islam and West or Islamic Law of Inheritance	3		



HoD's MESSAGE

Department of Economics established in 2014, since its inception department has offered undergraduate and graduate programs. Department of economics has served the nation by producing graduates who are serving to prestigious institutions of Pakistan. Our department is enabling large number of students of Economics to acquire contemporary knowledge of economic issues and providing its solution for sustainable economic development of country. Through seminars, workshops and conferences, department of economics is targeting concerned socio-economic issues and providing knowledge and training to students in order to confront these problems. Department is struggling to increase undergraduate programs in the field of economics, with the increasing focus of global economic changes. Our diverse faculty from different areas is serving department with highly qualified and well versed expertise in their respective fields. Our faculty is dedicated to pursue an excellent teaching and research culture in conducive environment.

Dr. Nawaz Ahmad

PhD,

National College of Business Administration & Economics (NCBAE),
Pakistan

MISSION STATEMENT

The department offers high quality education with a focus on research excellence, developing ethical norms, meeting challenges of diversified culture and fostering demand driven education for all. We provide focused purposeful education and training to enhance analytical ability of students to elucidate contemporary economic problems, impart independent and creative thinking to enable students for lifetime learning. The students are prepared to make valuable contributions at national, as well as, international level in enhancing knowledge and welfare of human being. Our graduates are envisaged to lead the nation in their areas of specialization, moral values and professional ethics.

INTRODUCTION

It is now well recognized that sound economic policies for any country require the services of highly educated and trained economists, having analytical ability and equipped with latest knowledge to address the emerging contemporary economic challenges. It is also a well-known fact that application of new ideas and economic theory leads to create new knowledge; one of the main objectives and contributions of universities for which these institutions are meant for. The Department of Economics ensures dissemination of new knowledge needed for variety of services for human welfare; in the educational sector, international institutions, as well as, for the public sector. We have introduced undergraduate and graduate level programs which meet market demands and also enhance intellectual ability of our students. The department aims at fostering advance education and training in Economics which transforms human resource to human capital. For this purpose, BS Economics, M. Phil. in Applied Economics and Ph.D. in Economics programs have been launched and revised, as well as improved over time to cater the contemporary economic challenges, particularly, in the developing countries. We ensure a purposeful academic and social life at "The University of Lahore". The students feel proud of investing their precious time and energy for their bright future, career and grooming their personalities. We have opened up a new window of opportunity to fulfill dreams of students to have quality education with clear focuses on quality education. Our doors are open to attract students on merit and to impart specialized education and develop moral values. All major state of the art facilities, as well as, top quality & qualified faculty is available for you. At present, we have 75% Ph. D. Faculty, having distinct career in the public sector, research and education. Now, students may benefit from it and get ready to embrace the challenge to achieve their goals. We care our students and ensure life time learning. The Economics Society of the department offers distinguished academic and social services to improve student's competency and contribute to uplift the living standard of civil society.



SCAN THIS TO SEE
FACULTY LIST

Bachelor of Science in Economics



Program Duration: 4 Years

Timing: Morning (Monday-Friday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Higher Secondary School Certificate / Intermediate with Minimum 2nd Division.

INTRODUCTION

The Bachelor of Science (BS) program is four years (eight semesters) program. It is focused to build strong foundations in Economics and develop analytical ability exhibiting leadership qualities to serve the nation. Our students are well prepared for specialized career and to pursue advanced studies in Economics. The students may also opt their own business after graduation.

CAREER PROSPECTS

This Program aims to target multidimensional objectives, including business management, Career in public sector, education and research institutions. Our students are well accepted in financial institutions such as banks, Finance Corporations, as well as in education and public sector jobs.



AREAS OF SPECIALIZATION

Students may choose any one of the Minors (Specialization).

DATA SCIENCES

- Databases
- Data Mining 1
- Data Mining II
- Cloud Computing
- Data Structures
- Python for Data Science
- Introduction to Data Science

FINANCE

- Money Banking & Finance
- Financial Management
- International Finance
- Financial Econometrics
- Financial Markets
- Investment Banking & Security Analysis

ELECTIVES (ECONOMICS)

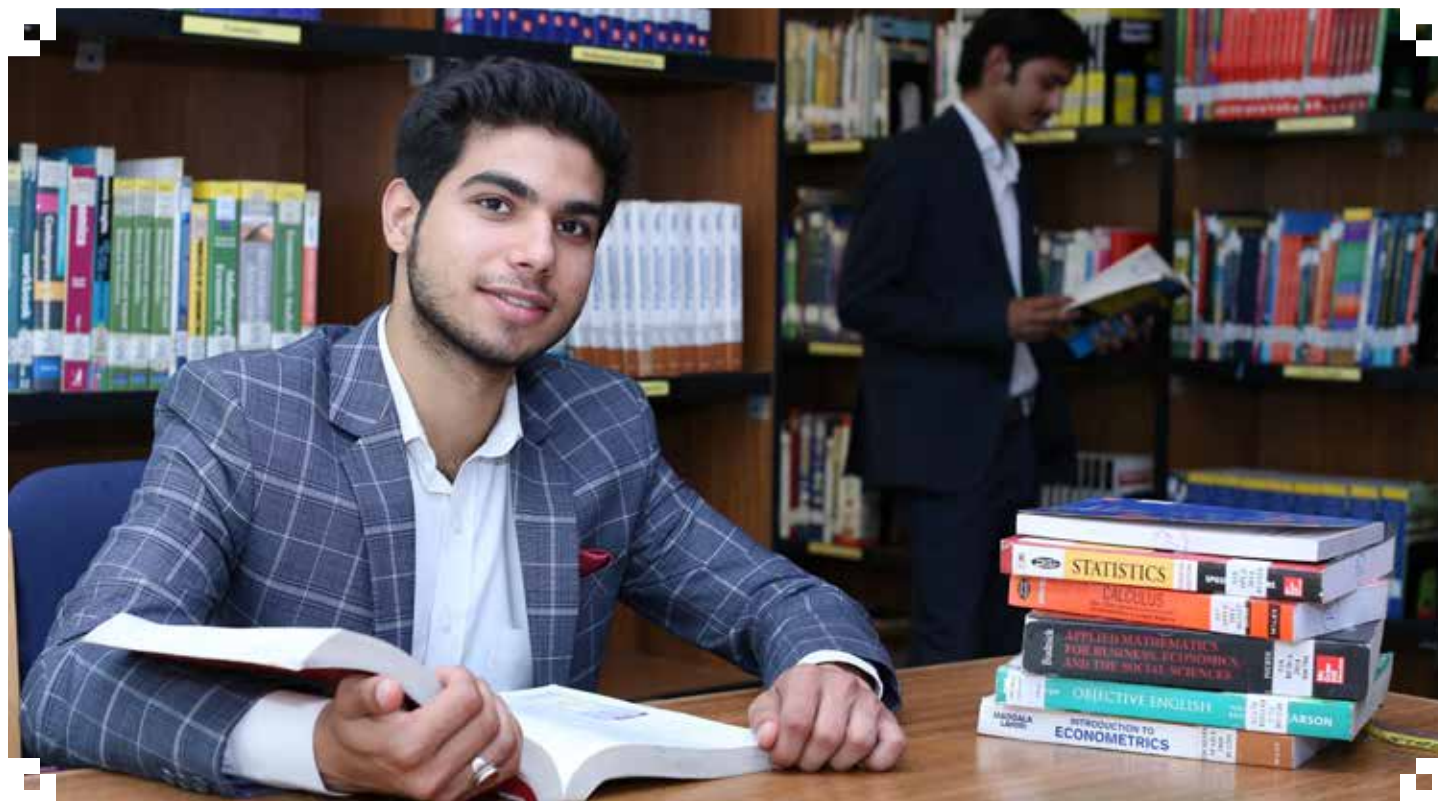
- Monetary Economics
- Population Economics
- Comparative Economic Systems
- Public Policies
- Welfare and Happiness Economics
- Project Appraisal and Investment Analysis
- Institutional Economics
- Poverty and Income Distribution
- Labor Economics
- Rural Development
- Industrial Economics
- Health Economics
- Regional Economics
- Agricultural Economics

ELECTIVES (NON-ECONOMICS)

- Introduction to Business
- Introduction to Mass Communication
- Islam and West in Historical Perspective
- Introduction to Politics
- International Politics
- Introduction to Education
- Introduction to Commerce
- Introduction to Computer

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 132	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Fundamental of Physics	3	Introduction to Biology	3	Advanced Writing and Communication Skills	3	Principles of Microeconomics	3
Introduction to Philosophy	3	Introduction to Psychology	3	Pakistan Studies	3	Principles of Macroeconomics	3
Sociology	3	Writing and Communication Skills	3	Islamic Studies	3	Minor-1 or Statistics-2	3
Functional English	3	History	3	Optional-1 (Non Econ)	3	Introduction to Computer	3
Basic Mathematics	3	Statistics-I	3	Optional-2 (Non Econ)	3	Mathematical Economics	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Intermediate Microeconomics	3	Microeconomic Analysis	3	International Trade Theory	3	Optional-4 (Econ)	3
Intermediate Macroeconomics	3	Econometrics I	3	Research Methodology	3	Optional-5 (Econ)	3
Issues in Pakistan Economy	3	Macroeconomic Analysis	3	Econometrics II	3	Minor-4 or Managerial Economics	3
Optional-1 (Econ)	3	Minor-2 or Islamic Economics	3	Development Economics	3	Thesis/optional Econ.	6
Optional -3 (Non-Econ)	3	Optional-2 (Econ)	3	Minor-3 or Economic Growth Models	3	Two optional courses Optional Economics	3
Optional-4 (Non-Econ)	3	Optional-5 (Non-Econ)	3	Optional-3(Econ)	3	Optional -6. (Non-Econ)	3

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.



Master of Philosophy in Applied Economics



Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, 4 Years BS/M.A/M.Sc. Economics from HEC recognized Institute/University with Minimum 2.5/4.0 CGPA.
- GAT-General with Minimum 60% marks or UOL Test.

INTRODUCTION

M.Phil.in Applied Economics is offered to provide a sound background in economic theory and its applications; appropriate to cater the needs of economists involved in policy formulation, planning & forecasting. This program emphasizes on applied economics and caters to the growing market demand for economic experts. Major focus is on developing analytical skills and creative ability in students who can embark upon advanced research and career in education departments / universities. After completion of the degree, the students are well prepared for further pursuing advanced education like Ph.D in Economics.

CAREER PROSPECTS

The M. Phil. in Applied Economics is ideal program for students who wish to pursue Ph.D. studies in Economics. If your ambitions are to look for an academic career in Economics, then this degree is best choice for you. Not only does it teach you to carry out independent scientific research, but it also provides an excellent stepping stone to embark

upon further advanced studies in Economics. Completion of the degree equips you with the life time learning tools and independent research. Furthermore, it strengthens careers in different sectors, academic and professional jobs in Economic Management, Accountancy, Consultancy, Insurance, Finance, Public Sector and Corporate Sector etc.

ELECTIVES

- Topics in Monetary Economics and Application
- Institutional Economics
- Topics in Environmental Economics and Application
- Topics in Development Economics & Policy
- Topics in International Economics and Finance
- Project Analysis and Investment Decision Making
- WTO, Globalization, International Trade and Integration
- Topics in Applied Econometric Techniques
- Applied Welfare Economics
- Topics in Public Sector Economics
- Economic Growth Models

Note:

- Student must obtain CGPA 2.75 in M. Phil course work to qualify for M. Phil thesis.
- For MS Economics degree, students may take two additional courses, in lieu of thesis.
- The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04				TOTAL CREDIT HOURS 36	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Advanced Microeconomics and Application*	3	Major Economic Issues in Pakistan Economy*	3	Research Thesis / Dissertation or One Elective Courses (03 Cr. Hr.) in lieu of thesis	6	Research Thesis / Dissertation or One Elective Courses (03 Cr. Hr.) in lieu of thesis	6
Advanced Macroeconomics and Application*	3	Research Methods*	3				
Advanced Applied Econometrics*	3	Elective Course	3				
Elective Course	3	Elective Course	3				





Doctor of Philosophy in Economics

Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BS/MS/MPhil or Equivalent degree from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- GAT with Minimum 60% marks or UOL Test.

INTRODUCTION

The Ph.D program in Economics, provides an opportunity to enhance advanced knowledge in Economics, learn tools and skills to apply knowledge and to equip students with the application of econometric tools for carrying out advanced research and training. Furthermore, this program will also enable students to conduct quality research in their specialized fields of interest in economics. The major areas offered for specializations are: Development Economics, International Economics, Applied Econometrics, Environmental Economics, Monetary Economics, Applied Macroeconomics, Microeconomics, Public Sector Economics.

CAREER PROSPECTS

The Ph.D program is designed to prepare students for academic and research oriented jobs, as per market demand. Once you have completed this degree, you will have many career paths to choose from.

However, your choice will be based on what your interests are and your area of specialization. The career prospects are many, including Researcher, Educationist, Econometrician, Economic advisors, Policy Analyst, Market Research Analyst, Banking Experts and careers in Public Sector and International Organizations/Financial Institutions.

ELECTIVES

- Issues in Environmental Economics
- Topics in Labor Economics
- Topics in Institutional Economics
- Spatial Econometrics
- Topics in Population Economics
- Data Visualization
- Contemporary Issues in Pakistan's Economy
- Topics in Development Economics
- Statistics and Probability
- Seminar in Public Economics
- Seminar in Applied Economics
- Topics in Advanced Mathematical Economics
- Topics International Trade and Finance
- Topics in Monetary Economics
- Topics in Agriculture Economics

ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Advanced Microeconomics	3	Advanced Macroeconomics	3	Advanced Applied Econometrics	3	Elective-IV	3	Research Work	30
Advanced Mathematical Economics	3	Elective-I	3	Topics in Advanced Microeconomics	3	Elective-V	3		
Research Methods	3	Elective-II	3	Topics in Advanced Macroeconomics	3	Elective-VI	3		
Advanced Econometrics	3	Applied Economics	3	Elective-III	3	Elective-VII	3		

School of Integrated Social Sciences



HoD's MESSAGE

As the inaugural Director and Head of the Department of the School of Integrated Social Sciences (SISS) at University of Lahore, I take immense pride in SISS becoming the first of its kind school in Pakistan that has committed itself to following an interdisciplinary approach to teaching social sciences. Imbued with a belief that knowledge has no frontiers, boundaries, and borders, SISS is well on its way to churning out knowledge-producers instead of knowledge-consumers. We believe that this is a continuous, challenging process, one that is typified by student-centered, research-driven, and interactive pedagogy methodologies. Six years since its establishment, SISS boasts having a vibrant student-body, comprising both Pakistani and international students. We are hosting 120 Afghan students on Allama Iqbal Scholarships studying in BS SS Politics and International Relations degree program. Our newly started PhD International Relations program is gaining a reputation for one of the best doctoral IR programs offered in Pakistan. SISS has consistently played an instrumental role in bridging the gap between policy making and academia while encouraging its students and faculty to focus on producing policy-relevant, original academic works. We believe that our students, faculty, and alumni have the potential to contribute positively to Pakistan's intellectual capital, response and capacity, which is critical to dominating the all-important but ignored spheres of narrative-building and perception management.

Dr. Rabia Akhtar

PhD. in Security Studies, USA

VISION

To become a premier social science school contributing core intellectual capital through solution-oriented national and international engagements.

MISSION STATEMENT

The School of Integrated Social Sciences offers an environment of excellence to its students and faculty for free exchange of ideas in an inclusive and collaborative academic culture. Through interdisciplinary teaching and research, we are fostering critical thinking and mentoring our students to inform and shape public policy, empower and engage their communities as responsible citizens, and serve as the next generation of leaders.

INTRODUCTION

The School of Integrated Social Sciences (SISS) is the first of its kind school in Lahore that has committed itself to following an interdisciplinary approach to teaching social sciences. Imbued with a belief that knowledge has no frontiers, boundaries, and borders, SISS is well on its way to churning out knowledge-producers instead of knowledge-consumers. This, SISS believes, is a continuous, challenging process, one that is typified by student-centered, research-driven, and interactive pedagogy methodologies. Five years after its establishment, SISS boasts having a vibrant student-body, comprising both Pakistani and international students. In addition to offering a popular, ever-expanding four-year undergraduate program, SISS has launched a three-year doctoral program in International Relations. Given that SISS has consistently played an instrumental role in bridging the gap between policymaking and academia while encouraging its students and faculty to focus on producing policy-relevant, original academic works, it believes that its students, faculty, and alumni have the potential to contribute positively to Pakistan's intellectual capital, response and capacity, which is critical to dominating the all-important but ignored spheres of narrative-building and perception management. The School of Integrated Social Sciences offers a unique combination of four specializations in the BS program, as well as a doctoral degree in International Relations. It aims at fulfilling the following objectives:

- To expand the knowledge-base and understandings about broader defense, political, social, economic, security, foreign policy, governance, and sustainable development issues.
- To enhance the ability of students to conceptualize problems and apply analytical tools to solve them.
- To enhance understanding about the convergence and conflict of interest that shapes international relations and structuring of global politics, challenges to sustainability of development in the 21st century, social change, and issues in governance and public policy.
- To provide tools to sharpen critical thinking and development of skills for discourse analysis.
- To counsel on personal and career development goals.
- To provide a supportive and professional learning environment.



SCAN THIS TO SEE
FACULTY LIST





Bachelor of Science in Social Sciences (Politics and International Relations)

Program Duration: 4 Years

Timing: Morning (Monday – Friday)

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of education, Intermediate or equivalent at least 45%

INTRODUCTION

This specialization aims to enable students to understand broader defense, security, foreign policy, and other relevant issues through an academic lens. The specialization equips students to identify, conceptualize, and theorize phenomena in global and regional politics, conflict, and strategy. The degree is designed in a manner that allows students to embrace

critical thinking and develop an aptitude towards research. Besides, students are encouraged to look at global and regional problems through a wider prism, for the degree follows a multidisciplinary approach towards teaching and learning.

CAREER PROSPECTS

This degree is designed to enable our graduates to join the civil service at both the federal and provincial levels, Non-Governmental Organizations (NGOs) and International Non-Governmental Organization (INGOs), international organizations like the United Nations (UN), local and foreign media outlets, think tanks, research institutes, and the academia. Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 126	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Functional English	3	Technical Writing and Presentation Skills	3	Communication Skills	3	Creative Writing	3
General Science & Ability I	3	General Science & Ability II	3	Pakistan Studies	3	Introduction to Psychology	3
Anthropology	3	Introduction to Philosophy	3	Islamic Studies	3	Principles of Sociology	3
Mathematics	3	Statistics	3	Introduction to Computer	3	Elements of Social Science Research	3
Introduction to Politics and International Relations	3	Introduction to Development Studies: Policy & Practice	3	Introduction to Governance and Public Policy	3	Globalization and Global Governance	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Comparative Politics	3	Political Theory	3	Foreign Policies of Major Powers	3	Seminar in Contemporary Politics and IR	3
International Law	3	IR Since 1945	3	Arms Control and Disarmament	3	Dimensions of International Security	3
Politics and Governance in Pakistan	3	Determinants of Pakistan's Foreign Policy	3	Seminar on Emerging Security Threats	3	Nuclear Non-proliferation Regime	3
IR: 1648-1945	3	National Security and Threat Perception	3	Democracy, Human Rights and Peace Building	3	Research Thesis or Course: Terrorism, Security and Intelligence	3
Peace and Conflict Resolution	3	International Political Economy	3	Advanced Research Methodology	3		
Foreign Policy Analysis	3	Regimes and International Organizations	3	Internship	3		

Bachelor of Science in Social Sciences (International Development Studies)



Program Duration: 4 Years

Timing: Morning (Monday – Friday)

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of education, Intermediate or equivalent at least 45%

and as to how societies and States tread the path towards development. Further, it aims to help students dissect issues that typify development and underdevelopment so as to enable them to apply analytical and academic skills to real-world phenomena.

CAREER PROSPECTS

International development professionals work in the government, non-governmental and private sectors. They can join international agencies and the academia, and become a researcher, policy analyst, social activist, or a community development worker.

INTRODUCTION

This specialization focuses on the social, political, and economic problems of developing countries. This stream will help students develop a high degree of understanding of national and international development policies, the nature of problems associated with underdevelopment,

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 126	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Functional English	3	Technical Writing and Presentation Skills	3	Communication Skills	3	Creative Writing	3
General Science & Ability I	3	General Science & Ability II	3	Pakistan Studies	3	Introduction to Psychology	3
Anthropology	3	Introduction to Philosophy	3	Islamic Studies	3	Principles of Sociology	3
Mathematics	3	Statistics	3	Introduction to Computer	3	Elements of Social Science Research	3
Introduction to Politics and International Relations	3	Introduction to Development Studies: Policy & Practice	3	Introduction to Governance and Public Policy	3	Globalization and Global Governance	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Governance and Institutions	3	Theories of Economic Growth and Development	3	Advanced Research Methodology	3	Seminar in Regional Development and World Economy	3
Human Resource Development	3	Economics of Developing Countries	3	Gender and Development	3	Elective III: Globalization and Markets	3
Sustainable Development	3	Sociology of Development	3	Developmental Politics of Third World	3	Elective IV: Conflict and Development	3
History of International Economic Expansion	3	International Organizations and the Politics of Aid Institutions	3	Elective I: International Trade	3	Research Thesis or 1 Course: Migration and Development	3
Determinants of Pakistan's Foreign Policy	3	Survey of Economics and Development in Pakistan	3	Elective II: International Finance	3		
International Political Economy	3	Governance, Resources and Human Development	3	Internship	3		



Bachelor of Science in Social Sciences (Governance and Public Policy)



Program Duration: 4 Years

Timing: Morning (Monday – Friday)

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of education, Intermediate or equivalent at least 45%

It aims at broadening students' theoretical and practical understandings of the debates on governance and political change, and as to how public authority is established and exercised.

CAREER PROSPECTS

Graduates of this program will be seen as useful resources for the Government of Pakistan that wants to induct qualified young professionals in its policymaking setups. Further, public policy professionals could join the civil service, multinational corporations, and international organizations.

INTRODUCTION

This specialization is designed to equip students with critical and analytical skills to be used in developing and implementing public policy.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 126	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Functional English	3	Technical Writing and Presentation Skills	3	Communication Skills	3	Creative Writing	3
General Science & Ability I	3	General Science & Ability II	3	Pakistan Studies	3	Introduction to Psychology	3
Anthropology	3	Introduction to Philosophy	3	Islamic Studies	3	Principles of Sociology	3
Mathematics	3	Statistics	3	Introduction to Computer	3	Elements of Social Science Research	3
Introduction to Politics and International Relations	3	Introduction to Development Studies: Policy & Practice	3	Introduction to Governance and Public Policy	3	Globalization and Global Governance	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Governance and Institutions	3	Policy and Advocacy	3	Advanced Research Methodology	3	Policy Seminar	3
Economics and Social Policy	3	Social Planning	3	Governance, Resources and Human Development	3	Elective III: Science, Technology and Public Policy	3
Politics and Governance in Pakistan	3	Public Management	3	Democratization and Policy Formulation	3	Elective IV: Comparative Law and Policy	3
Leadership and Policy-making	3	Issues in Public Policy	3	Elective I: Local Government	3	Research Thesis or 1 Course: Issues in Public Administration	3
The Role of Government	3	Higher Education and Public Policy	3	Elective II: Social Justice and Public Policy	3		
International Political Economy	3	Determinants of Pakistan's Foreign Policy	3	Internship	3		



Bachelor of Science in Social Sciences (Sociology)

Program Duration: 4 Years
Timing: Morning (Monday – Friday)
Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

- Entry Requirements**
- 12 Years of education, Intermediate or equivalent at least 45%

INTRODUCTION

This specialization will broaden students' horizons by equipping them with the tools to better understand this ever-changing world. We strongly believe in the importance of producing thinkers, leaders, and innovators, whose subsequent contributions will bring positive change to our society. Hence, we aim to prepare our students through a practical approach for public speaking and evidence-based writing, which are the key skills provided by a degree in social sciences. Sociology covers every aspect of human life. Its subject matter is social interaction. It helps students increase their theoretical knowledge and sharpen their practical skills, with a view to understanding the world around them and addressing

sociological issues such as social stratification, gender, race, ethnicity, and poverty. Our social environment is evolving rapidly. Thus, there is a need to respond to new knowledge and information relating to the changing nature and complexity of our family, education, work, politics, mass media, health systems, and defense.

CAREER PROSPECTS

The School of Integrated Social Sciences aims to offer a high-quality undergraduate program that enables our students to pursue wide-ranging careers. Sociologists are employable in the fields of research, counselling and therapy, community welfare, healthcare evaluation, education, public services, business, politics, philanthropy, and mass media, to name a few. Such multifarious career prospects might not be limited to local and national level organizations. Sociologists can also work with international and multinational organizations, such as United Nations Organization (UNO), United Nations Development Program (UNDP), United Nations International Children's Emergency Fund (UNICEF), and World Health Organization (WHO).

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08			TOTAL CREDIT HOURS 126		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Functional English	3	Technical Writing and Presentation Skills	3	Communication Skills	3	Creative Writing	3
General Science & Ability I	3	General Science & Ability II	3	Pakistan Studies	3	Introduction to Psychology	3
Anthropology	3	Introduction to Philosophy	3	Islamic Studies	3	Principles of Sociology	3
Mathematics	3	Statistics	3	Introduction to Computer	3	Elements of Social Science Research	3
Introduction to Politics and International Relations	3	Introduction to Development Studies: Policy & Practice	3	Introduction to Governance and Public Policy	3	Globalization and Global Governance	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Organizational Behavior	3	Criminology	3	Gender Studies	3	Rural Sociology	3
Introduction to Law	3	Sociology of Development	3	Introduction to Population Studies	3	Sociology of Race and Ethnicity	3
Introduction of SPSS	3	Medical Sociology	3	Community Development	3	Conflict Resolution	3
Mass Communication	3	Sociology of Education	3	Advanced Research Methodology	3	Thesis (3)/ Elective Course (3)	3
Classical Sociological Theories	3	Contemporary Sociological Theories	3	Sociology of Religion	3		
Project Planning and Management	3	Urban Sociology	3	Internship	3		



Doctor of Philosophy in International Relations



Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- MS/MPhil or equivalent degree in relevant field.
- Minimum 3.0/4.0 CGPA or First Division (annual system) in most recent degree obtained
- Pass subject test UGAT-UOL with 70% passing marks & Interview with SISS Department Graduate Committee

INTRODUCTION

The Doctoral program in International Relations is a three-eight-year intensive research degree grounded heavily in theory. It offers excellent preparation and training for careers in academia and aims at producing scholars/researchers who can demonstrate world class scholarship and profound understanding about complex and diverse social, economic and political issues/problems. In particular, our program is designed to offer in-depth knowledge and research training for scholars seeking to join academia. In this respect, we offer a conducive and highly vibrant academic environment that ensures maximum motivation and incentives for the students to produce quality research under qualified and candid supervision of our faculty. PhD IR aims to offer an advanced and in- depth critical understanding of theoretical and practical aspects of defense, security policy, political economy, international law, regional and international Organizations. It offers four broader areas of specialization, sub-fields of IR, to choose elective courses from: Area Studies, International Security, International Law and International Political Economy. The degree aims at equipping the students with analytical and critical skills and rigorous training in various social science research methods which will enable them to undertake both qualitative and quantitative research.

Foreign Language: Non-Credit – Mandatory:

PhD IR graduates at University of Lahore will be studying a foreign language from the options offered by the department. This will give them an edge over all other graduates graduating from the same discipline in Pakistan. Language opens doors not only for careers that require language skills for example working with embassies as an interpreter or with the intelligence agencies but also provides graduates with opportunities to apply for postdoc and research opportunities outside Pakistan. The requirement will be pass/fail in both written and viva components taught for two consecutive summers, three months duration each.

CAREER PROSPECTS

Jobs in Academia and Research:

PhD IR graduates can join academia. One advantage of an academic and research career, whether at a teaching-oriented institution or a large research university, is intellectual freedom. One can spend a career approaching a variety of topics that are interesting and constantly evolving, that may involve travel abroad for fieldwork, and that may let you network with hundreds of colleagues interested in similar topics.

Jobs in Governmental and Intergovernmental Organizations:

PhD IR graduates can avail job opportunities in both government and intergovernmental organizations (IGOs). Many employees of IGOs or governments thrive on making decisions that influence policies. Both work environments also attract coworkers with deep interests in international affairs, and the resulting networks of contracts can bring professional and intellectual rewards.

Jobs in the NGO Sector:

PhD IR graduates can join various NGOs who work on social issues inside Pakistan as well as abroad. The curriculum designed for PhD IR graduates with advanced research degrees, gears them towards taking up job opportunities that NGOs offer for example politics or policy work, lobbying for political organizations, social and political activism or education related work.

Jobs in Media Organizations:

PhD IR graduates at University of Lahore are trained in courses that provide them a perspective on how media is influenced by politics. They also bring their foreign policy analysis training to their jobs which usually provides a wholesome perspective on analyzing international affairs. Jobs in media could range from political analysts, defense analyst, anchor of talk shows in the electronic media, column/op-ed writers for print media, blogging on social media and other similar outlets.



LIST OF ELECTIVE COURSES:

4 Elective Courses to be selected

AREA STUDIES

- Politics of South Asia
- Politics of the Middle East
- Politics and Security of Asia-Pacific Region
- Major Issues of Muslim World
- Conflict and Cooperation in South Asia
- Seminar on Contemporary Regional and Global Issues
- Media and Global Politics

INTERNATIONAL SECURITY

- Politics of Non-proliferation and International Security
- Interstate Cooperation and Conflict
- Peace and Conflict Resolution
- Nuclear Weapons, Strategy and Doctrine
- International Terrorism and World Politics
- Seminar on Contemporary Debates in International Security
- Seminar on Emerging Technologies and International Security
- Gender, Peace and Security

INTERNATIONAL LAW

- International Law and Use of Force
- Contemporary Trends in International Law
- Human Rights and International Law
- International Refugee Law
- The Law of Armed Conflict
- Seminar on International Law, Security and IR
- International Law and United Nations

INTERNATIONAL POLITICAL ECONOMY

- Approaches and Ideologies in International Political Economy
- Global Political Economy
- International Financial Institutions in IR
- Globalization and World Politics
- Seminar on International Political Economy
- WTO and Global Integration
- Non-State Actors and Global Governance

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 06		TOTAL CREDIT HOURS 54	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3-6	CR. HR.
Schools of Thought in International Relations	3	Advanced Research Design	3	Dissertation	30
Advanced Research Methods	3	Foreign Policy Analysis	3		
Elective-I	3	Elective-III	3		
Elective -II	3	Elective-IV	3		





HoD's MESSAGE

Pakistan Educational Conference was convened in November/ December 1947 in Karachi to prepare a roadmap on how to improve the education system in the country. The Commission on National Education (1959) asserted the pivotal role of teachers that “No educational system is better than its teachers” who produce experts in different walks of life. Currently, the Department of Education at The University of Lahore, offering three pre-service undergraduate (BS Educational Management, B.Ed Hons. Elementary, & B.Ed 1.5 Years) and two postgraduate teacher education programs (M.Phil and Ph.D). The department intends to offer short skill-based courses and workshops on teaching and research. It will provide an opportunity to the applicants to enhance their knowledge and skills in their areas of concerns. I hope, the department will meet the expectations of the community through its highly qualified and experienced faculty under the visionary leadership of the Chairman BoG and distinguished Rector of the University.

Prof. Dr. Muhammad Saeed

MISSION STATEMENT

The department offers quality education with a focus on research excellence, develops fruitful ethical norms, respects diversified culture create and disseminate knowledge for all. Equal importance is given to enhance analytical ability of students to elucidate contemporary educational problems, impart independent and creative thinking to enable students for lifetime learning. The students are prepared to make valuable contributions at national, as well as, international level in the educational sphere. Our graduates are envisaged to lead the nation in their areas of specialization, moral value and professional ethics.

INTRODUCTION

Generally it is believed that no nation can develop without a good education system and “No system is better than its teachers. “We also believe that teachers are agents for change and meaningful change can only be brought in Pakistani Education System through well versed teachers. The teachers who can develop creative educational material and coop with educational reforms. Primary objective of this faculty is dissemination of the professional skills and knowledge in the way that is ultimately needed for development o our country. Here we provide an inspiring environment to improve practices of teaching and examination. We are also committed to provide academic leadership which can contribute to the policies and practices in education according to our social, psychological and ideological needs. Our qualified and skilled faculty is able to use their knowledge and experience to contribute to prepare teachers who can serve to bring reforms in classroom teaching, curriculum development and examination practices.



SCAN THIS TO SEE
FACULTY LIST

Bachelor of Education B.Ed. (Hons) Elementary



Program Duration: 4 Years

Timing: Morning (Monday – Friday)

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 12 Years of Education, Intermediate (FA/FSc/ICS or Equivalent) with Minimum 45% marks.

INTRODUCTION

The B.Ed. (Hons.) Elementary Program aims to prepare teachers demonstrating professional and academic excellence, utilizing sound personal qualities, with a commitment to education and life-long learning, revealing etiquettes of world citizenship, observing sound vow to the concepts of tolerance, peace and practice of moral values. These teachers are aspired to be the excellent leaders with the exemplification and propagation of characteristics that enable them serve as top tier educators, not just in Pakistan but, in any global academic scenario.

CAREER PROSPECTS

BEd (Hons.) Elementary students may get offers of jobs in Public (School Education Departments) and Private schools and colleges. They may get admission in postgraduate program in Education as well as in content areas. They may join Educational Administration, Planning and Management in Education. Furthermore, avenues may be opened for them to be the consultants and specialists in school profile developers, class management, timetable development, evaluation experts and curriculum developers.

Note: List of Elective Courses is available in the department.

The University has policy of full compliance to the guidelines/ requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 08				TOTAL CREDIT HOURS 138	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English 1	3	English II	3	English III	3	English Language IV	3
General Science	3	Islamiat/Ethics	3	Urdu (Functional)	3	Optional- A-I	3
Social Foundation of Education: School, Society & Teacher	3	Critical thinking and Reflective Practices	3	Computer Applications in Education	3	Teaching Profession	3
Pakistan Studies	3	Environmental Education	3	Education in Pakistan	3	Optional- B-I	3
Philosophy of Education	3	Psychology of Learning	3	Educational Statistics	3	Curriculum Development	3
General Mathematics	3	Art, Craft and Calligraphy	3	Technical Writing and presentation Skills	3	Child Development	3
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Optional- A-II	3	Optional- A-III	3	Optional- A-IV	3	Comparative Education	3
Optional- B-II	3	Optional- B-III	3	Optional- B-IV	3	Educational Guidance & Counselling	3
Educational Assessment	3	Research in Education	3	Methods of Teaching Social Studies	3	School organization and Management	3
Methods of Teaching English in Elementary Schools	3	Methods of Teaching Science in Elementary Schools	3	Methods of Teaching Mathematics	3	Research Project/Thesis	3
Methods of Teaching Urdu in Elementary Schools	3	Methods of Teaching Islamiyat	3	Practice Teaching (Long)	3	Practice Teaching (Long)	3
Practice Teaching (Observation and School Experience)	3	Practice Teaching (Short Simulated Practice)	3				



Bachelor of Studies in Science Education (BSSEd)



Program Duration: 4 Year

Timing: Morning (Monday – Friday)

Weekend (Saturday & Sunday)

Location: Defence Road Campus, Lahore.

Recognized By: Higher Education Commission

Entry Requirements

- 12-years of schooling (FSc/ICS or GCE A-Levels in Science subjects or Equivalent) with a minimum second division in an examination conducted by a Board of Intermediate and Secondary Education or any other equivalent examination authorities.

INTRODUCTION

Program of BS Science Education would attract the students of science because of varied openings awaiting for the graduates. These openings may be in technology and industry and educational scenarios as well. The

added advantage to them that they would be the advocates of education in general and science education in particular over electronic and mass media.

CAREER PROSPECTS

BS in Science Education students may get offers of jobs in Public (School Education Departments) and Private schools and colleges. They may get admission in postgraduate programs in Education and Sciences programs. They may join educational administration, Planning and Management in Science Education as well as they may be offered jobs in Sciences as Allied Faculty to assist the Theory and Practical in basic sciences. Furthermore, avenues may be opened for them to be the consultants and specialists in school profile developers, class management, time table development and evaluation experts.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.



ROAD MAP		TOTAL SEMESTERS 08			TOTAL CREDIT HOURS 138		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English - I (short stories and composition)	3	English-II (Poetry and Comprehension)	3	English-III (Novel and Letter Writing)	3	Environmental Education	3
Pakistan Studies	3	Islamiat/ Ethics	3	Computer Applications in Education	3	Human Development and Learning	3
Philosophy of Education	3	Art, Crafts and Calligraphy	3	General Methods of Teaching	3	Biological Sciences / Physical Sciences	3
Any TWO Content Courses according to subjects studied at F. Sc. Level							
Botany-I	4	Botany-II	4	Botany-III	4	Botany-IV	4
Chemistry-I	4	Chemistry-II	4	Chemistry-III	4	Chemistry-IV	4
OR							
Botany-I	4	Botany-II	4	Botany-III	4	Botany-IV	4
Zoology-I	4	Zoology-II	4	Zoology-III	4	Zoology-IV	4
OR							
Chemistry-I	4	Chemistry-II	4	Chemistry-III	4	Chemistry-IV	4
Zoology-I	4	Zoology-II	4	Zoology-III	4	Zoology-IV	4
OR							
Physics-I	4	Physics-II	4	Physics-III		Physics-IV	4
General Mathematics -I	4	General Mathematics -II	4	General Mathematics -III		General Mathematics -IV	4
OR							
A Course of Mathematics-I	4	A Course of Mathematics-II	4	A Course of Mathematics-III		A Course of Mathematics-IV	4
B Course of Mathematics-I	4	B Course of Mathematics-II	4	B Course of Mathematics-III		B Course of Mathematics-IV	4
ROAD MAP		TOTAL SEMESTERS 08			TOTAL CREDIT HOURS 138		
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.	SEMESTER 7	CR. HR.	SEMESTER 8	CR. HR.
Curriculum Development	3	Research Methods in Education	3	Educational Assessment & Evaluation	3	Arabic (Language)	3
Education in Pakistan	3	School Organization and Management	3	School, Community and Teacher	3	Technical Writing and Presentation Skills	3
Critical Thinking and Reflective Practices	3	Practice Teaching-II (Students Teaching and Observation)	3	Educational Statistics	3	Comparative Science Education	3
Practice Teaching-I (Short & Simulated Practice)	3					Teaching Profession	3
Any Two Pedagogy Course According to Content Area		Any Two Course according to Area of Specialization					
Teaching of Chemistry	3	Advance Botany-I/Advance Chemistry-I/Advance Physics-I/ Advance Mathematics-I/ Advance Zoology-I	4	Advance Botany-III/Advance Chemistry- III /Advance Physics- III / Advance Mathematics- III / Advance Zoology-III	4	Teaching Practice-III (Observation and School Experience)	3
Teaching of Biology	3	Advance Botany-II/Advance Chemistry-II/Advance Physics-II/ Advance Mathematics-II/ Advance Zoology-II	4	Advance Botany- IV / Advance Chemistry- IV / Advance Physics- IV/ Advance Mathematics- IV / Advance Zoology- IV	4	Research Project/ Thesis	3
OR							
Teaching of Physics	3						
Teaching of Mathematics	3						







Master of Philosophy in Education

Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of Education, B.Ed. (04 Years), BS (Hons.) in Education / M.Ed. / M.A. in Educational Leadership and Management and Education, Master's degree from HEC recognized University with Minimum 2.5/4.0 CGPA or 55% marks under semester system or 2nd Division (50% marks) under annual system.
- Qualifying UOL entry test & interview are mandatory.
- The candidates interested in M.Phil. Education program not having the above mentioned academic background can be admitted to M.Phil. Education provided they complete following deficiency makeup courses of Master degree level. Students will have to qualify these prerequisite courses before embarking on M. Phil in Education course work.

1. Research Methods in Education
2. Educational Psychology
3. Philosophy of Education
4. Educational Assessment and Evaluation
5. Curriculum and Instruction
6. Educational Administration

these objectives, the program offers challenging curricula, a variety of teaching-learning methodologies and a supportive academic environment. Here we provide an inspiring environment to improve practices of teaching and examination. We are also committed to provide academic leadership which can contribute to the policies and practices in education according to our social, psychological and ideological needs.

CAREER PROSPECTS

The M. Phil. in Education program is focused on exposing students to innovative research and practice in the leadership management and administration of educational institutions, undertake Research in a variety of scenarios, peep into the practices of education to go with the Philosophical Thinking, Perceiving and Practicing Styles, enable students to switch over to new Technological Interventions for Reflecting Criticizing and Sharing knowledge and its Dimensions, go by the Statistical Data Computations and Treatments for Drawing Tangible Solutions to the Problems, Can Design, and Put to practice Curriculum leading to its evaluation as well. Taught by experienced teachers and active researchers in the field, this program explicitly integrates theory and practice to enable graduates to apply the latest research to refine and improve practice in their own contexts. Graduates may find opportunities in the following areas: Head or Leading Teacher positions; Assistant or Deputy Principal Positions; School Principal; Educational Administrators; Academic Managers; Curriculum leaders and consultants, among others.

INTRODUCTION

M.Phil in Education program is for individuals who aspire to positions of Professional Educational Leadership or to a career in Educational Research. The program focuses on extending knowledge and research expertise of students through scientific inquiry. To accomplish

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

ROAD MAP		TOTAL SEMESTERS 04		TOTAL CREDIT HOURS 30	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3 & 4	CR. HR.
Curriculum Theories and Models	3	Educational Leadership and Management	3	Thesis	6
Advanced Research Designs	3	Statistics in Education	3	Courses Offered in Lieu of Thesis for MPhil in Education Degree Program	
Innovations in Educational Psychology	3	Technology Supported Instruction	3	Contemporary Trends and Issues in Education	3
Philosophical Foundations of Education	3	Perspectives and Practices in Educational Assessment	3	Practicum in Educational Research	3





Doctor of Philosophy in Education

Program Duration: 3 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 Years of Education, BS/MS/MPhil degree in Education from HEC recognized university with minimum 3.00/4.00 CGPA in semester system or 60% marks in annual system.
- All the applicants having MS/MPhil or Equivalent degree (18 Years Education) may be given waiver in coursework as per HEC policy.
- **Qualifying UOL Entry Test / Interview are mandatory.**
- The requisite courses studied by the candidates at M.Phil/MS level will be waived off for Admission in PhD

INTRODUCTION

PhD in Education program is for individuals who aspire to positions of professional educational leadership or to a career in educational research consultancy and guidance in a wider array of educational knowledge scenarios. The program focuses on extending knowledge and research expertise of students through scientific inquiry. To accomplish these objectives, the program offers challenging curricula, a variety of teaching-learning methodologies and a supportive academic environment. We are also committed to provide academic leadership which can contribute to the policies and practices in education according to our social, psychological and ideological needs. Our qualified and skilled faculty is able to use their knowledge

and experience to contribute in preparing teachers who can serve to bring reforms in classroom teaching, curriculum development and examination practices.

CAREER PROSPECTS

The PhD in Education program is focused on exposing students to innovative research and practice in the leadership management and administration of educational institutions, undertake research in a variety of scenarios, peep into the practices of education to go with the philosophical thinking, perceiving and practicing styles, enable students to switch over to new technological interventions for reflecting, criticizing and sharing knowledge and its dimensions, go by the statistical data computations and treatments for drawing tangible solutions to the problems, can design, and put to practice curriculum leading to its evaluation as well. Taught by experienced teachers and active researchers in the field, this program explicitly integrates theory and practice to enable graduates to apply the latest research to refine and improve practice in their own contexts. Graduates may find opportunities in the following areas: Head or Leading Teacher positions; Assistant or Deputy Principal Positions; School Principal; Educational Administrators; Academic Managers; Curriculum leaders and consultants, and University faculty.

Note: Those who will be enrolled in PhD on the basis of MS/MPhil in Education will be exempted for the courses as per HEC/ UOL Policy and decided by Departmental Research Committee.

ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Philosophical Foundations of Education	3	Educational Leadership and Management	3	Teacher Education: Innovation, Interaction and Impact	3	Academic Writing	3	Research Work	30
Advanced Research Designs	3	Statistics in Education	3	Educational Policy and Planning in Pakistan	3	Qualitative Research Methods	3		
Curriculum Theories and Models	3	Technology Supported Instruction	3	Qualitative Research in Education	3	Area Course 1	3		
Innovations in Educational Psychology	3	Perspectives and Practices in Educational Assessment	3	Philosophical Paradigm of Education	3	Area Course 2	3		

DEAN's MESSAGE

The Faculty of Languages and Literature at the University of Lahore is dedicated to providing an excellent education in languages and literature. We adopt an interdisciplinary approach, which means that we study languages and literatures in relation to multiple social practices. This includes historical traces, social constructivism, philosophical worldviews, critical inquisition, and cultural diversity. We are committed to making our students excel in these diverse fields. In order to do this, we offer innovative and student-centred academic programs. Our programs are designed to challenge and engage our students, so that they can reach their full potential. We believe that everyone has the right to access a high-quality education, regardless of their background or circumstances. This is why we offer multiple scholarship opportunities to our students. We also have a strong commitment to research, and our faculty members are engaged in cutting-edge research in their respective fields. If you are interested in pursuing a specialised education in English or Urdu, then we invite you to apply to the Faculty of Languages and Literature.

Prof. Dr. Asghar Nadeem Syed



DEPARTMENTS

- English Language & Literature
- Urdu

Department of English Language and Literature



HoD's MESSAGE

Welcome to the Department of English Language and Literature. We are excited to offer you an interactive and supportive environment where you can explore your passion for literary and linguistic studies. Our department has developed an extensive range of courses in all degree programs and two distinct streams of specialisation: literature and applied linguistics. Moreover, we offer individual mentoring to students whether they are interested in traditional or contemporary topics of research. At the Department of English Language and Literature, our students can choose to explore established as well as cutting-edge areas in British, American, or postcolonial literature, digital humanities, creative nonfiction, semantics, or applied linguistics. Our department is home to a community of scholars who are committed to excellence in research and teaching. We encourage all of our students to get involved in curricular and extracurricular activities, as they offer a great way to meet other students and learn more about how to hone your interests. Whether you want to pursue a career in academia or use your skills in other professions, our department is the perfect place for you to develop your passions. We hope you will take advantage of all that our department has to offer.

Dr. Saeed Ur Rehman

MISSION STATEMENT

The department aims to hone the interpretive abilities of its students by equipping them with the latest methods of analysing literary and linguistic texts. With interdisciplinary approaches toward transmitting knowledge, our faculty members inculcate passion in our students to approach literature and linguistics by utilising novel critical and interpretive techniques. The department has updated its academic programs and introduced cutting-edge areas of study. We aim to facilitate our students to grow academically and cognitively within a socially and culturally supportive environment. We offer the skills and expertise that are necessary for excelling in teaching, research, business, and publishing. Our ultimate goal is to produce self-reflective world citizens.

INTRODUCTION

As an English major at The University of Lahore, you will find excellent education that creates an ideal balance between language and literature. With a wide array of academic programs, we prepare our undergraduate and postgraduate students to forge careers in professional and academic fields. Our students graduate empowered with communication skills, critical thinking, and problem-solving. This enables them to collaborate and excel in an increasingly globalized and interconnected world. Their employability is ensured in the fields as diverse as teaching, media, communication, publishing, and civil services. Our faculty members specialize in a wide range of areas of critical inquiry. We foster an aptitude for advanced learning and research among our students. For this, our faculty members dedicate themselves to imparting outstanding scholarship. Studying English literature and linguistics ensures students' engagement with and command on:

- Reading and writing in various rhetorical contexts
- Interpreting and analyzing a broad range of texts and genres
- Developing and sustaining criticality
- Developing language skills in connection with the surrounding social setup
- Understanding various approaches to second language acquisition/ learning
- Production of independent research
- Multiple historical and cultural contexts of language and literature.



**SCAN THIS TO SEE
FACULTY LIST**



Bachelor of Studies in English Language and Literature



Program Duration: 4 Years

Timing: Morning (Monday–Friday)

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission,

Entry Requirements

- 12 Years of education, F.A./F.Sc./I.Com./I.C.S./A Level or an equivalent qualification with minimum 2nd division or a comparable grade.
- UOL entry test (mandatory) and interview (optional).

INTRODUCTION

This is a 4-year degree program with 132 credit hours, specifically designed to cover core areas in English language, literature and linguistics. It encourages learners to read and analyse a wide range of texts critically. This will help them explore various traditions of writing/speaking in English. Special emphasis is given to enhancing oral and written English

proficiency, which subsequently ensures employability in multiple fields. With its highly interdisciplinary nature, this program enables the students to connect their knowledge of the English language, literature, and linguistics with several areas of social sciences such as philosophy, psychology, globalisation, and sociology. It paves the way for the students to trace and recognise current trends for conducting research in any area of their interest.

CAREER PROSPECTS

Upon completing a BS in English Language and Literature, many career options become available to our students including key positions in teaching, civil services, judiciary, print and electronic media, NGOs, INGOs, multinational organizations and civil society organizations. Studies in humanities create a strong knowledge base to establish institutions that serve humanity.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.



ROAD MAP		TOTAL SEMESTERS 08 TOTAL CREDIT HOURS 132	
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.
English I: Reading and Writing Skills	3	English II: Academic Reading and Writing	3
Islamic Studies	3	Introduction to Information & Computer Technology (ICT) Skills	3
Introduction to Geology	3	Pakistan Studies	3
Elementary Stats and Mathematics-I	3	Elementary Stats and Mathematics-II	3
Introduction to Literary Studies	3	Literary Forms and Movements	3
Introduction to Language Studies	3	Introduction to Phonetics and Phonology	3
SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
English III: Communication & Presentation Skills	3	Human rights and Citizenship Education	3
Introduction to Environmental Studies	3	The Rise of the Novel	3
Study Skills	3	Michel Foucault and Discourse Studies	3
Introduction to Philosophy	3	Classical Tragedy	3
Introduction to Poetry	3	Semantics and Pragmatics	3
Introduction to Morphology and Syntax	3		
SEMESTER 5	CR. HR.	SEMESTER 6	CR. HR.
Psycholinguistics and Sociolinguistics	3	Introduction to the History of Ideas	3
Dissent and the Novel	3	Stylistics	3
World Literature in Translation-I	3	Chomsky and Linguistics	3
Contemporary Short Fiction	3	World Literature in Translation-II	3
Language Acquisition and Intercultural Communication	3	Creative Nonfiction	3
SEMESTER 7 (Literature Major)	CR. HR.	SEMESTER 7 (Linguistics Major)	CR. HR.
Research Methods in Literature	3	Research Methods in Linguistics	3
Literary Criticism-I (From Platonic Idealism to Modernism)	3	Language and Gender	3
Cultural Studies and Ecocriticism	3	Ferdinand de Saussure and Semiotics	3
Modern Drama	3	Language in the Digital Age	3
Contemporary Poetry	3	World Englishes	3
SEMESTER 8 (Literature Major)	CR. HR.	SEMESTER 8 (Linguistics Major)	CR. HR.
Postcolonial Women's Writing	3	Ecolinguistics	3
The Postmodern Novel	3	Corpora and Computational Linguistics	3
Literary Criticism-II (Contemporary Literary Theory)	3	Forensic Linguistics	3
Pakistani Folk Literature in English	3	Language and Media Studies	3
American Literature	3	Emerging Trends in Linguistics	3
Research Project	3	Research Project	3

Note: The University has a policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program





Master of Philosophy in English Literature

Program Duration: 2 Years

Timing: Morning / Evening

Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of education culminating in an MA or a 4-Years BS degree in the relevant field, with minimum 2.5/4.0 CGPA under semester system or 2nd division (i.e. 45 percentile score) under the annual system
- UOL entry test and interview are mandatory.

INTRODUCTION

The degree program focuses on critical analysis of British, American, Continental and postcolonial works of literature in English. It focuses on contemporary trends in modern critical and literary theories. These areas of specialization are covered through intensive research and their application, which stimulate intellectual inquiry. The program comprises taught courses of 24 credit hours. After completing the coursework, only students obtaining a CGPA of 2.75 or above may write a research thesis (6 credit hours). Those not meeting the criterion of 2.75 CGPA may improve by repeating the course(s) with the lowest score as per the rules of HEC. Alternatively, students may choose to study 2 courses (each of 3 credit hours) in lieu of research thesis.

CAREER PROSPECTS

As per HEC's regulations, MPhil is now a basic requirement for a lectureship at universities in Pakistan. It is a gateway to research enabling the students to pursue a PhD in their selected area of interest. Research firms also take up MPhil graduates for assistance in research projects.



Note: The University has a policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program

ROAD MAP		TOTAL SEMESTERS 04			TOTAL CREDIT HOURS 30		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Contemporary Literary Theory	3	Research Methodology	3	Elective III	3	Research Thesis - Continued	
Postcolonial Theory and Literature	3	Pakistani Literature in English	3	Elective IV	3	Or two courses from the list of elective courses in lieu of thesis	6
Elective-I	3	Elective-II	3	Research Thesis (25000-30000 words)	6		





Master of Philosophy in Applied Linguistics

Program Duration: 2 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16 Years of education culminating in an MA or a 4-Years BS degree in the relevant field, with minimum 2.5/4.0 CGPA under semester system or 2nd division (i.e. 45 percentile score) under the annual system
- UoL entry test and interview are mandatory.

INTRODUCTION

Our MPhil program in Applied Linguistics aims to investigate a wide range of issues related to the use of language in contemporary society. Among these, the most prominent issues include second and foreign language education. The current research centres on bilingualism and multilingualism, child language development, second language acquisition, sociolinguistics, cross-cultural pragmatics, discourse and conversation analysis, intercultural communication, language teaching, and translation theory. The program comprises taught courses of 24 credit hours. After completing their coursework, students who have obtained a CGPA of 2.75 or above may write a research dissertation (6 credit hours). Those not meeting the criterion of 2.75 CGPA may improve by repeating the course(s) with the lowest score as per the rules of HEC. Alternatively, students may choose to study 2 courses (each of 3 credit hours) in lieu of a research thesis.

Note: The University has policy of full compliance to the guidelines/requirements prescribed by HEC and/or concerned accreditation council for the degree program.

CAREER PROSPECTS

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ROAD MAP		TOTAL SEMESTERS 04			TOTAL CREDIT HOURS 30		
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.
Theories in Linguistics	3	Research Methodology	3	Elective III	3	Research Thesis - Continued	
Applied Linguistics	3	Issues in Syntax	3	Elective IV	3	Or two courses from the list of elective courses in lieu of thesis	6
Elective-I	3	Elective-II	3	Research Thesis (25000-30000 words)	6		



Doctor of Philosophy in English (Literature Stream)

Program Duration: Minimum 3 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 years of Education, BS/MS/MPhil, or Equivalent degree from HEC recognized university with a minimum 3.00/4.00 CGPA under the semester system or 60% marks in the annual system.
- All applicants holding MS/MPhil or Equivalent degrees (18 Years of Education) may be given a waiver in coursework as per HEC policy, GAT Subject Test/UoL Entry Test comprising objective questions, a research-based essay-type question, and an interview

INTRODUCTION

Because of the interdisciplinary nature of academic research today, the program offers courses having intersectional focus on language and literature. In the Literature Stream, the program includes courses on postcolonial and postmodern literature, film and screen studies, women's literature, creative non-fiction, war literature, digital humanities and many others. Similarly, in the Applied Linguistics Stream, the program comprises of courses on advanced syntax, lexical studies, world Englishes, critical discourse analysis, etc. The program consists of 78 credit hours and carries three major components: coursework, comprehensive examination, and research thesis. Together, these elements introduce students to a variety of textual modes and critical methodologies; provide extensive practice in research, discussion, argument, and writing, and develop pedagogical skills.

CAREER PROSPECTS

Graduates of PhD in English will meet the specialized and demanding needs of a career in the increasingly competitive field of English Studies, and find promising employment in their respective areas of specialization. These prominently include careers in higher education and university teaching, academic research in the field of English literature, writing and editing, forensic linguistics, clinical linguistics, computational linguistics, translation studies, etc.



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Advanced Research Methods	3	Communication Theories: Interdisciplinary Concepts in English Literature	3	Postcolonial Critical Theory and Literature	3	Postmodern Literature	3	Research Work	30
Elective I	3	Elective IV	3	Elective VII	3	Elective X	3		
Elective II	3	Elective V	3	Elective VIII	3	Elective XI	3		
Elective III	3	Elective VI	3	Elective IX	3	Elective XII	3		





Doctor of Philosophy in English (Applied Linguistics Stream)

Program Duration: Minimum 3 Years
Timing: Morning / Evening
Location: Defence Road Campus, Lahore

Recognized By: Higher Education Commission

Entry Requirements

- 16/18 years of Education, BS/MS/MPhil, or Equivalent degree from HEC recognized university with a minimum 3.00/4.00 CGPA under the semester system or 60% marks in the annual system.
- All applicants holding MS/MPhil or Equivalent degrees (18 Years of Education) may be given a waiver in coursework as per HEC policy, GAT Subject Test/UoL Entry Test comprising objective questions, a research-based essay-type question, and an interview

INTRODUCTION

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Graduates of PhD in English will meet the specialized and demanding needs of a career in the increasingly competitive field of English Studies, and find promising employment in their respective areas of specialization. These prominently include careers in higher education and university teaching, academic research in the field of English literature, writing and editing, forensic linguistics, clinical linguistics, computational linguistics, translation studies, etc.



ROAD MAP		TOTAL SEMESTERS 06				TOTAL CREDIT HOURS 78			
SEMESTER 1	CR. HR.	SEMESTER 2	CR. HR.	SEMESTER 3	CR. HR.	SEMESTER 4	CR. HR.	SEMESTER 5-6	CR. HR.
Advanced Research Methodology	3	Communication Theories: Interdisciplinary Concepts in Linguistics	3	Advanced Syntax	3	Contemporary Trends in Sociolinguistics	3	Research Work	30
Elective I	3	Elective IV	3	Elective VII	3	Elective X	3		
Elective II	3	Elective V	3	Elective VIII	3	Elective XI	3		
Elective III	3	Elective VI	3	Elective IX	3	Elective XII	3		



HoD's MESSAGE

The Department of Urdu at the University of Lahore is dedicated to the study of one of the most widely spoken languages in the world. Urdu is the official language of Pakistan, and is also spoken extensively in many parts of South Asia, Middle East and North America as a lingua franca of the South Asian diaspora. The department offers a wide range of courses on topics such as Urdu language, literature, and culture. Students who study Urdu have the opportunity to develop a deep understanding of the language and its many literary and societal iterations. They also gain valuable insights into the culture and heritage of the region. In addition, the Department of Urdu offers students the chance to learn about the relationship of Urdu with other languages spoken in the region, such as Arabic and Persian. As a result, students who study at the department can develop a truly global perspective.

Moreover, our degree programs are designed to foster a deep understanding of the interconnectedness of the many regional languages and cultures and are relevant to a rapidly changing world. Our programs engage you in extracurricular activities to strengthen your artistic talent, sharpen your creativity, and deepen your understanding of what is meaningful in life. We hope you will take advantage of the valuable knowledge our department aims to transmit to our young generation.

Prof. Dr. Asghar Nadeem Syed

MISSION STATEMENT

Civilizational knowledge is valued in universities around the world because it transmits human values and spiritual heritage. Without the help of literature, it is impossible to disseminate cultural knowledge. Therefore, the pursuit of literary arts is a universal occupation. Achieving literary and linguistic competence in Urdu is a cornerstone of tertiary education in Pakistan. The Department of Urdu aims to equip its students with cutting-edge knowledge of classical and contemporary Urdu language and literature.

INTRODUCTION:

The Faculty of Languages and Literature at the University of Lahore has been imparting literary, linguistic, and cultural education since 2002. The Department of Urdu envisions to create an atmosphere that nurtures the knowledge of classics as well as contemporary trends in Urdu literature. The Department of Urdu has the mandate to implement modern and contemporary research and pedagogical techniques. Dr. Asghar Nadeem Syed, the head of the Urdu department, is a world-renowned literary figure who has established linkages with scholars around the world; among them are Dr. Khalil Tauqar and Dr. Asuman Belen Özcan in Turkey, Dr. So Yamane Yasir in Japan, Dr. Ashfaq Husain in Canada, Dr. Gopi Chand Narang in the U.S., and Dr. Ibrahim Muhammad Ibrahim in Egypt. The Department of Urdu supports universal research ideals of the 21st century; to serve this purpose, the University focuses on advancing its libraries, engaging faculty in national and international conferences, and facilitating students to partake in literary activities across the country and the world.



SCAN THIS TO SEE
FACULTY LIST



Bachelor of Studies in Urdu Language and Literature



پیشہ وارانہ مواقع:

بی ایس اردو زبان و ادب کے بعد سب سے کلیدی مواقع تو تعلیم کے میدان میں ہوں گے۔ اس دوران ڈگری یافتہ خواتین حضرات اپنی تعلیم کو ایم فل اور پی ایچ ڈی کی سطح تک لے جاسکیں گے۔ اور یونیورسٹیوں میں وہ آسانی سے اپنی جگہ بنا سکیں گے۔ اس کے علاوہ اس چار سالہ کورس میں ایسے موضوعات اور فنکارانہ مہارت کے شعبوں کی تعلیم بھی شامل ہے۔ جس سے میڈیا انڈسٹری میں آسانی سے بحیثیت ڈرامہ نگار، سکرپٹ رائیٹر، کاپی رائیٹر اور خبر نویس کے شعبوں میں جاسکتے ہیں۔ ادبی اداروں، ادبی شعبوں بھی انہیں پذیرائی مل سکتی ہے۔ وہ کالم نویس، شاعری، افسانہ نگاری اور ادبی اصناف میں بھی اپنا مقام اور پیشہ متعین کر سکتے ہیں۔

پروگرام دورانیہ: چار سال

اوقات: دن۔ سوموار سے جمعہ

مقام: ڈیفنس روڈ کمپس، لاہور (ہائیر ایجوکیشن سے منظور شدہ)

داخلے کی شرائط:

بارہ سالہ تعلیم۔ ایف۔ اے، ایف ایس سی / آئی کام / آئی سی ایس / اے لیول
یا اس کے برابر تعلیم۔ کم سے کم سینئر ڈویژن یا اس کے برابر گریڈ

تعارف:

یہ چار سالہ ڈگری پروگرام ہوگا جس کے ایک سو انتیس کریڈٹس آوریز ہوں گے۔ جنہیں خاص طور پر اردو زبان و ادب کی تعلیم کے تمام ضروری پہلوؤں کے ساتھ ڈیزائن کیا گیا ہے۔ اردو ادب اور زبان کی تعلیم و تربیت کے جدید اصولوں کو سامنے رکھتے ہوئے اس بات کا خیال رکھا جائے گا کہ اس علم کی تحصیل کے بعد طالب علموں کی استعداد ادب کے علمی رجحانات، زبان کے رموز، اور ادبی اصناف کی تاریخ و تہذیب سے متعلق اس حد بلند تر ہو کہ وہ دنیا کے کسی بھی ادب کا تجزیاتی مطالعہ کرنے کی صلاحیت رکھتے ہوں۔ ادب کے حوالے سے تاریخ و تمدن، معاشرت اور سماج کے ساتھ ساتھ نفسیات، فلسفہ اور عمرانیات کا گہرا شعور بھی انہیں حاصل ہوگا۔ زبان و ادب کسی قوم اور معاشرے کی ذہانت کا معیار ہوتے ہیں۔ اس لیے اردو زبان و ادب کی یہ تعلیم طلباء کے فکری اور حیاتی تجزیوں کو وسعت دے سکے گی۔



روڈ میپ

کل سمسٹر: 8

کل کریڈٹ آور: 129

کریڈٹ آور	سمسٹر 1	کریڈٹ آور	سمسٹر 2	کریڈٹ آور	سمسٹر 3	کریڈٹ آور	سمسٹر 4	کریڈٹ آور
انگریزی 1	3	انگریزی 2	3	انگریزی 3	3	اردو ناول (تاریخ و تخلیق)	3	3
اکٹا مکس	3	اکٹا مکس (روزمرہ)	3	کمپیوٹر ابتدائی	3	اردو افسانہ	3	3
نفسیات 1	3	نفسیات 2	3	پاکستان کی سماجی تاریخ	3	ایک سو سالہ صدی کا فکشن (خصوصی مطالعہ)	3	3
پاکستان سٹڈیز 1	3	پاکستان سٹڈیز 2	3	فنون لطیفہ کا جائزہ	3	اردو ڈرامہ (سٹیج)	3	3
اردو زبان کے ابتدائی نقش	3	اردو ادب کے ابتدائی ادوار	3	افسانوی ادب کی ابتدا (داستان)	3	اردو میں سفر نامہ	3	3
ابلاغیات	3	اسلامیات	3	شاعری کی کلاسیکی اصناف	3			

روڈ میپ		کل سمسٹر: 8				کل کریڈٹ آور: 129	
سمسٹر 5	کریڈٹ آور	سمسٹر 6	کریڈٹ آور	سمسٹر 7	کریڈٹ آور	سمسٹر 8	کریڈٹ آور
اردو کی ادبی تحریکیں	3	مشرقی تنقید کے نظریات	3	جدید اردو نظم	3	نثری نظم کی تحریک	3
اسالیب نثر اردو	3	مغربی تنقید کے اصول	3	ادبی اصطلاحات	3	مقالہ نگاری (اصول و ضوابط)	3
اردو شاعری کی اصناف	3	تنقیدی دیستان	3	علامہ محمد اقبال کا خصوصی مطالعہ	3	Creative رائٹنگ	3
اردو ادب میں طنز و مزاح	3	تحقیق کا فن	3	غالب کا خصوصی مطالعہ	3	تحقیقی و تنقیدی مقالہ	6
اردو غزل کا ارتقاء	3	ترجمے کا فن	3	سکرپٹ رائٹنگ	3		



UNIVERSITY GENERAL RULES & POLICIES



- General Admission Policy & Academic Rules
- General Fee Policy & Financial Aid Rules
- General Examination Rules

General Admission Policy & Academic Rules



The University of Lahore admits students whose educational background is sound and who can achieve success in higher education. UOL will invite all applicants qualified to achieve UOL's educational goals regardless of their gender, race, creed or caste.

GENERAL ADMISSION RULES

- a. Admissions will be opened twice a year under the semester system, or as stated otherwise for specific programs. Applications received for admission in various programs are reviewed by the concerned departments. The applicants are required to appear in admission test and interview. The final merit is determined on the basis of past academic performance, score obtained in the admission test and performance in the interview
- b. At the time of granting new admissions, the UOL will invite applications through major national dailies, social media platforms and its website. The candidates must complete all application requirements before being considered for admission. Admission/enrolment in any program will be limited to the number of students who can be accommodated.
- c. Applicants, who have appeared in various examination i.e. 12 years of education level (intermediate (FA/F.Sc/ICS/I.Com/DAE/A-Level), 14 years of education degree level (BA/B.Sc), 16 years of education degree level (MA/M.Sc), 18 years of education degree level (MS/M.Phil) or pre-requisite level examination prescribed for admission in a program and are awaiting results, will be allowed to apply for provisional admission, but they will be given admission only after submission of the attested copies of their certificates / degrees within the prescribed time notified by the university. In case of foreign qualification, applicant should provide equivalent documents issued by the IBCC or HEC. At the time of submission of admission forms, applicants will be also be required to submit an undertaking that they understand the rules/policy of the admissions and that if they fail to submit the required documents within the prescribed time, they will not be given admission.
- d. Applicants for admission must meet the relevant academic qualifications needed for the program

being applied for. These qualifications shall be determined by the Academic Council and shall be notified from time to time. Admissions shall be granted purely on the basis of merit achieved in the entrance test (or the tests conducted by the testing services if so provisioned), academic record and interview. The applicants shall be required to:

- i. Buy prospectus by cash from the University Campus Admission Office or send pay order/bank draft via courier in the name of 'The University of Lahore'; and
 - ii. Apply online, before the notified closing date; and
 - iii. Appear in the admission test and interview on the date notified by UOL, or produce results of the tests conducted by the specified testing service if so provisioned
- e. Applications for admission shall be entertained only on a prescribed form, which is part of Online Admission Portal. The Candidates applying for admission at the UOL are required to submit a complete application in all respects.
 - f. Admission shall be granted on the basis of eligibility criteria mentioned for each program and after passing the admission test and interview arranged by the admission committee of the department.
 - g. The test pattern is of the same standard as of scholastic aptitude test (SAT) for undergraduate studies and graduate record examination (GRE/GMAT) for graduate studies.
 - h. For eligibility criteria reference may be made to each relevant program / degree.
 - i. Each successful applicant will be issued "Admission Letter and Fee Voucher" by the concerned department.
 - j. Students who have completed all the formalities and deposited their fees and other dues on the prescribed date are eligible for registration. Each student, admitted on merit, is expected to take full load of courses prescribed for the semester.

1) PROVISIONAL ADMISSION

Applicants who make to the merit list but are waiting

for the result of the qualifying examination may be granted provisional admission. If so admitted, they shall submit their mark sheets, showing all subjects of the qualifying examination passed and the required aggregate marks achieved, within 01 week after the result declaration. If the student fails in any subject, does not achieve the required aggregate marks, or does not submit the marks sheet within 02 weeks of the semester start shall be disqualified from the program and cancellation of admission refund as per HEC Policy.

2) NEW ADMISSION TRANSFER

- Admission office will receive application and will forward the same to the Head of Department / Dean of the Faculty / Pro-Rector for approval or forward it to the Registrar and accounts office for further processing and notification.
- If fee status is cleared and provisional registration number already been issued, then previous registration number will be marked cancelled on student profile in the system and new registration number will be issued on the same applicant number after selection.
- Applicable on all degrees programs including MBBS/BDS and Engineering.

3) NEW ADMISSION CANCELLED / FAILURE TO MEET ELIGIBILITY CRITERIA

- Student should provide complete documents / equivalence (IBCC/HEC) before Mid-Term exams to secure admission. In case admission is cancelled the student will not be allowed to attend classes and will not be eligible for any semester exam of the University.
- A student can not apply for fee transfer to next session in case of ineligibility. However, applying for refund in case of ineligibility will be considered after declaration of result within the time limit prescribed by HEC and notified by the UOL.
- This policy is not applicable to MBBS/BDS students.

4) DEFERMENT AND CANCELLATION OF ADMISSIONS

Candidates selected for admission may defer their admission for one semester for all degree programs



running under the semester system subject to paying the admission fee and submitting all the requisite documents. The candidates desiring deferment shall apply with valid reason to the Admission Office/ Departmental Admin office within one week of the commencement of the semester. Fee deposited shall be readjusted for the subsequent semesters as per the UOL fee policy. This policy is not applicable to MBBS/BDS students.

5) INELIGIBILITY FOR ADMISSION

A student will be ineligible for admission in the following cases:

- A student who does not meet the basic eligibility for the applied program is ineligible for admission.
- The students who are expelled on disciplinary grounds will not be permitted to rejoin the University.
- Students admitted provisionally but failed in any subject will be ineligible for the admission

Note: No fee refund for ineligible student.

6) CANCELLATION OF ADMISSION DUE TO ABSENCE, NON-PAYMENT OF DUES / FEE

Admission of a student will be cancelled in the following cases:

- If a student without any information, freezing the semester, getting registered or payment of fee for the new semester.
- If newly admitted student (1st semester) does not pay fee or any dues within the due date notified by the University.

ACADEMIC CALENDAR

The academic calendar consists of two regular semesters i.e. (Spring and Fall) and a short Summer semester of 8-10 weeks is usually offered to cover special courses. Each regular semester runs over 16 to 18 weeks, out of which 15 weeks are reserved for regular classes, the other weeks are utilized for course review/makeup classes, teacher course evaluations/survey forms, exam preparation, midterm/final exam conduct, exam results submission, papers rechecking, extracurricular activities and Govt official holidays adjustments. The schedule of admissions, registration, start and closure of academic sessions, examinations, breaks, non-academic activities and holidays are all listed in the Academic Calendar published by the University.

ACADEMIC SESSION (THE SEMESTER SYSTEM)

The academic programs are spread over two semesters during each year. There are two regular semesters in one academic years (Spring & Fall). The duration of the Fall and Spring semesters is 16-18 weeks each. The spring semester starts from each year from the month of February and the Fall semester starts from the month of September in each year. The University also offers Summer session (July & August) of 8-10 weeks duration for the benefit of students to repeat failed courses or to improve their grade in regular semester, provided 10 or more students register for those courses. Such students will not be eligible for award of Gold / Silver Medals at the Convocation.

The undergraduate level programs are spread over eight semesters (BS Degree 04 years) / ten semesters (Doctor Degree 05 years). Graduate (MS/M.Phil level) programs are taught for 2-4 years, Doctorate (PhD) level programs are taught for 3-5 years, keeping in view the type of degree.

The classes and examination for different programs are conducted on the pattern of semester system. This system is based on instructional autonomy resting with the department and aims at progressive development of student's information level, skills and competence as per semester guidelines by the HEC, Pakistan.

ORIENTATION FOR NEW STUDENTS

Participation in orientation is a requirement for all new students. It is designed to provide fresh students with information regarding the University services, policies and procedures, student responsibilities and faculty expectations. Orientation generally takes place just before commencement of a new semester.

REGISTRATION & ENROLLMENT RULES

- After completing admission formalities and having paid the semester dues the applicants will be registered as bonafide students of UOL.
- At the time of registration the applicants will be required to produce their original certificates, which will be returned to the student after making entries in his/her file and verification.
- The applicants will be allocated the University Registration Number and will be issued the University Registration Card by the Registrar Office. This will allow the students to get enrolled in different courses offered by the concerned departments.
- In each semester, the students should enroll in the courses as per "degree / program road

map" issued by the concerned department and shall not enroll in advance courses unless they have passed the prerequisite course.

- Registration will be issued to the Quota based admission category after the approval from the admission committee or any other penal notified by the registrar or by the competent authority.

ATTENDANCE POLICY

The following attendance criteria will be applied:

- The minimum requirement for a student to complete the semester is 75% attendance in each course. The department will determine the exceptions to this rule if any.
- Students with poor attendance record will be issued a written warning at any time during a semester. The department reserves the right to inform the student's parents or guardian through a letter of the possible consequences including withdrawal from the course or admission cancellation.
- In case a student joins a course after it has started, he/she will be responsible to make up the deficiencies for any quizzes, assignments and attendance requirements.

General Fee Policy & Financial Aid Rules



GENERAL FEE POLICY

- Fees are charged to every student as per fee structure offered for his/her degree at the time of admission session until the completion of the degree. for complete tenure of degree. Fees charged will not be waived in any case
- For degrees run under semester system, fees are charged at the start of semester as the student gets enrolled.
- Concerned departments shall certify that students attending classes or appearing in the mid-term/final examination have paid all the fee dues.
- The registration of a student may be suspended/cancelled in case of non-payment of fees. In case of re-registration, the student will have to pay re-registration fee as notified by competent authority along with other pending dues.
- University reserves the right to change the fees structure at any time.

PAYMENT OF FEE

- Students seeking admission shall deposit their fees on or before the date notified by UOL failure of which may lead to cancellation of admission.
- Students may be allowed to pay their fee in installments after seeking approval. The fees should be paid on the dates as notified from time to time.
- Student needs to keep his fee dues clear and on time during his study term and delays may lead to levy of Late Payment Charges and suspension of enrollment and exam registration.

FEE REFUND

a) New Admission:

Fee Refund in case of new admission is dealt as per applicable rules and regulations issued by HEC and other regulatory bodies like PMC etc. and UOL circular / guidelines in place.

b) Regular Students:

No fees refund is made to regular students. Excess paid fees if any, are adjusted against next semester/ years fees. If a student has completed their degree, with excess amount paid, if any, will be refunded after final clearance. Non- MBBS/BDS students who wish to migrate or discontinue studies at the UOL, excess paid fees, if any, will be refunded after interim clearance according to the following rules.

1. Refunds will be made up to a maximum period of one year after the date of leaving or completion. UOL shall not entertain any claim of refund after this period.
2. Refund eligibility will be determined as per the UOL Fees refund policy and guidelines issued by HEC, PMC and other regulatory bodies time to time.

FEE TRANSFER NEW ADMISSION

If a candidate secures admission after paying fee and fails to join the university, the paid fee can be transferred to next semester after the approval of competent authority as per UOL rules. This is not applicable to degrees run under PEC and PMC. The transfer application date shall be the date on which the University officially acknowledges/ receipts for the student's application to transfer the semester after approval by the competent authority and notification.

SCHOLARSHIPS

Certain Scholarships are offered by the University of Lahore to encourage students to take higher studies under following:

1. Merit Base Scholarship
2. Kinship Base Scholarship
3. Need Base Scholarship
4. Disability Base Scholarship
5. Sports Base Scholarship

Office of Scholarship (Student Affairs Office) will process the application under relevant policy in the shortest possible time and forms for each scholarship category will be available in the admission office and office of scholarship. All the required documents will be stated in each form that should be provided for further processing.

Following are the steps to be followed by applicants:

- Before applying for scholarship applicants has to deposit at least half of the tuition fee along with other charges. Such applicants must visit Office of Scholarship or admission office to obtain the prescribed form.
- On completion forms to be submitted along with the requirements.
- The application will be reviewed and processed by the relevant section.
- Scholarships are subject to maintaining a semester GPA of 3.00 in each semester. Failure to maintain this SGPA, may lead to complete withdrawal or reduction of scholarship as per policy.

For any queries, students may contact at following Email IDs:

New Admission: fee.admissions@uol.edu.pk

Regular Students: feerecovery@uol.edu.pk

Financial Aid: financial.assistance@uol.edu.pk



General Examination Rules



“W”- Official Withdrawal: A grade of “W” is given in a course when a student officially withdraws from the course or from the University atleast one day prior to the final examination.

“Probation” If a student earns a CGPA of less scoring of 2.00 under graduate, 2.50 graduate and 3.00 M.Phil leading to Ph.D, he/she will be placed on probation.

“Good Standing” If a student earns a CGPA Scoring of 2.00 under graduate, 2.50 graduate and 3.00 M.Phil leading to Ph.D he/she shall be placed on “good standing”.

WARNING

Whenever the CGPA of a student is less than as that prescribed above, the Head of the Department will issue warning to him/ her and place him/her on probation.

AWARD OF DEGREE

- A minimum CGPA of 2.00 without any ‘F’ grade for the total semester of a degree program shall be required for the award of degree. Each student shall also be required to (1) complete laid down duration, pass number of courses as well as prescribed by respective department (2) clear all dues and that (3) has no disciplinary action is pending against him/ her.
- If a student on completion of his program fails to achieve a CGPA less than 2.00 will only be provided with a transcript of incomplete program showing the grades s/he has obtained and the CGPA only. S/He will not be eligible to receive the degree of that Program.
- Each successful Student at the completion of the program shall receive from the CE a transcript signed by him on the prescribed form.
- Each successful student scoring CGPA of 2.00 under graduate, 2.50 graduate and 3.00 M.Phil leading to Ph.D or more at a degree conferred on him in the prescribed form. Chairman Board of Governors, the Rector, the Registrar and the CE shall sign the Degree. The degree of successful students not present at the convocation shall be issued to them on payment of the prescribed fee.
- The degree may be issued to a successful student before the convocation on payment of prescribed fee.

TIME LIMIT FOR COURSE DROP

- A student can drop a course only within first two weeks of the commencement of semester with carry forward of fees already deposited. After this period, no carry forward on the fee paid for the subjects will be allowed.
- Dropping of a course within two weeks of commencement of semester is allowed in exceptional circumstances, like; clash in the time table or for reason of sickness beyond one’s control and duly certified by a registered medical practitioner.

COURSE DROP OR SEMESTER FREEZE

- Due to unforeseen circumstances and personal situations beyond student’s control, he/she may be allowed to drop course(s) or freeze the semester as per following conditions:
- If the course(s) are dropped or semester freeze is applied within two weeks of the commencement of the semester then no dues will be charged and if the fee has been paid, the same shall be adjusted in the next semester.
- If the student is not enrolled and applies for semester freeze within two

weeks of commencement of semester then no fee will be charged. In case the student is not enrolled in that semester and applies for semester freeze after two weeks till the end of that semester then semester freeze fee of Rs. 5000/- If the student is not enrolled and applies for semester freeze within two weeks of commencement of semester then no fee will be charged. In case the student is not enrolled in that semester and applies for semester freeze after two weeks till the end of that semester then semester freeze fee of Rs. 5000/-

- In case the student does not apply for semester freeze within that semester then he/she shall deposit semester freeze fee of Rs. 10,000/- per semester.
- After enrollment a student is ineligible to apply for drop of a course (s) or freeze the semester after two weeks of commencement of the semester and shall pay full fee and dues of that semester.
- In case a student rejoins the program after de-registration he/she shall pay the re-registration fee as laid down and semester freeze fee mentioned above for the number of semesters he/she has missed.

MISCELLANEOUS

The University determines the schedule for the conduct of examination, so students are obliged to take the examination. The candidates for University examination must read - **and will be assumed to have read all these instructions.**

Before Examination:

- It is the candidates’ responsibility to ensure that they know the correct date, time and location of all their examinations.
- Students should keep any permitted material with him/her during the examination. No lending/borrowing is allowed.
- Mobile phones/any electronic gadget/text material is strictly prohibited in the examination room.
- Candidates must take their University Identification Card and Admit Card to each examination and show to the invigilator on demand.

During Examination:

- Candidates will be allowed to enter in the examination room 10-15 minutes before the start time of the examination.
- Candidates will not be allowed to enter in an examination room after the examination has been in progress for 15 minutes.
- Students should sit on the assigned seats and should obey instructions to change seats during examination as directed by the invigilator without questioning or hesitation.
- The decision of the invigilator in the Examination Hall will be binding. In case any student does not do so, his/her behavior will be treated as misconduct.
- It is candidate’s responsibility to check that they have been given the correct question papers.
- If there is any doubt, candidates should attract the attention of an invigilator immediately.
- Student should write his/her Roll Number on both the Answer Book and the Question Paper immediately after receiving these documents.
- Student should write exactly the same subject title and code as given in the Examination Authorization Slip.
- Student must mark his/her attendance in the relevant sheet by indicating his/her answer sheet number.
- Questions must be attempted on the Answer Book provided in the examination room by the University.

- Candidates must write their answers in black or blue ink. Color pencil should only be used for drawing diagrams, sketches or graphs.
- Candidates must write their answers legibly because examiners cannot mark what they cannot read.
- Candidates must not tear out pages or parts of pages of answer books. They must not take answer books or any other item of examination stationery from an examination room whether used or not.
- Rough work and all calculation must be done on the answer books.
- Answers should be numbered clearly according to a question paper.
- Candidates must not communicate in any way with each other during the examination. They should not turn around or/and look at the other students. This will be considered as unfair means.
- Candidates are not allowed to leave the examination room during the examination timings in any case.
- No extra time is allowed for late-comers.
- Smoking, food and drinks are prohibited in the exam room.
- No candidate may leave the examination room during either the first half or last 15 minutes of an examination.
- Candidates who once leave the examination room will not be re-admitted under any circumstances.
- Candidates must stop work when instructed to do so by the Invigilator.
- Candidates may take away the examination question paper unless this is specifically prohibited in the instructions on the examination paper
- A candidate is bound to avoid unfair means in an examination and not to help or attempt to help any other candidate to use unfair means in an examination.
- Breaking any of the Examination Rules may constitute a case of unfair means against the student

Eligibility to Appear in Final Examination:

- No student shall be admitted to final examination unless the following conditions are fulfilled:
- SHE/He has been on rolls of the University during the semester for which the examination is being held, unless allowed by these rules to take examination in some papers.
- SHE/He has attended not less than 75% of the total number of lectures delivered, the laboratory periods, design/studio work and practical work done in the required courses for that examination.
- The students are not debarred from taking the examination by other regulation or rules for the time being in force.
- SHE/He has paid all University dues for the said semester.
- The students have to print their Admit cards through their online portals.
- Only those students who are in possession of Admit Card shall be allowed to enter in the Examination Hall/Room for taking the final examination at the end of each semester.
- In case a student joins a course later than its start, s/he will be responsible to make up the deficiencies for any missed quizzes, assignments and lectures etc.

Rechecking of Examination Script:

The answer book of a candidate shall not be re-assessed under any circumstances. Rechecking application will be submitted within the 15 days of the result declaration by the teacher. Whereas the re-checking does not mean re-assessment/re-evaluation/re-marking of the answer book. Fee of the re-checking of paper will be RS. 2500/- per subject.

Re-Examinations:

There will be no Supplementary/Special/re-Examination in a Semester System; if a student fails in a course, s/he is required to repeat it.

CGPA Required for the Completion of Undergraduate, Graduate and Post Graduate Degree:

For completion of the degree, the minimum qualifying CGPAs for Undergraduate, Graduate and Post Graduate Students are 2.00, 2.50 and 3.00, respectively.

PROBATION POLICY

Probation is a status granted to the student whose academic performance falls below the minimum University standard.

Under Graduate Programs:

- Student having 02 or more probations will be enrolled only in previous F & D grade subjects
- The students acquiring less than 2.00/4.00 GPA in a semester but passing in

all papers will be promoted with the condition to achieve more than 2.0 GPA in the next semester and s/he will be put on probation for the next semester.

- It is mandatory for students having CGPA in between 1.90 to 2.00 to enroll F grade subjects first along with (02) fresh courses.
- Students having CGPA between 1.80 to 1.90 needs to first enroll all their F grades and can take (01) fresh courses only.
- Students having CGPA less than 1.80 can enroll only in previous F & D Grade subjects.

Graduate Programs:

- Student having 02 or more probations will be enrolled only in previous F & D grade subjects
- The students acquiring less than 2.50/4.00 GPA in a semester but passing in all papers will be promoted with the condition to achieve more than 2.50 GPA in the next semester and s/he will be put on probation for the next semester.
- It is mandatory for students having CGPA in between 2.40 to 2.50 to enroll F grade subjects first along with (02) fresh courses.
- Students having CGPA between 2.30 to 2.40 needs to first enroll all their F grades and can take (01) fresh courses only.
- Students having CGPA less than 2.30 can enroll only in previous F & D Grade subjects.

Courses on Pass/Fail Basis

Courses can be taken on pass/fail basis. These courses can be taken only out of elective courses, and the grade awarded toward these courses will not be considered in calculating the GPA or CGPA.

Breach of Rules of Examination:

If a student is found having in his possession, while under examination, papers, books, notes, electronic gadgets, mobile phone, smart watches etc or any other material which might be of assistance to him in examination, s/he shall be expelled from the examination on that day and subsequent days if any, by the Supervisor, and his/her case shall be reported to the CE for further action as may be deemed necessary.

Award of Gold Medal:

A Student who fulfills all the requirement of the degree program in laid down time period without failing in any subject is eligible for the gold medal award of that batch as per university rules

- Have earned a cumulative GPA of 3.50 or above out maximum of 4.00.
- Have not repeated courses.
- Have not been re-admitted.
- Have not earned "F" Grade during the course of study.
- Have not withdrawn any course.
- Have minimum 05 students registered in his/her batch.
- Have not disciplinary committee and unfair means committee action.
- Have not freeze any semester.

Cancellation of Admission:

The admission of students who, after having been placed on probation, fail to make good standing in next two consecutive semesters, will be cancelled

- If a student fails to enroll in three consecutive semesters or fails to apply semester freeze for three consecutive semesters (excluding summer semester) the student shall be automatically de-registered.
- The admission in any program at any stage will be considered cancelled if the previous documents are found FAKE/BOGUS. No fee/registration fee will be refunded in any case.
- If any student has not submitted the required documents in the prescribed time his/her admission will be considered cancelled.



GRADE POINT MATRIX

Grade	Numerical Equiv.	Grade Points
A	85% - 100%	4.00
A-	80% - 84%	3.75
B+	75% - 79%	3.50
B	70% - 74%	3.00
C+	65% - 69%	2.50
C	60% - 64%	2.00
D+	55% - 59%	1.50
D	50% - 54%	1.00
F	Below 50%	0.00

Grades in Individual Subject

Points for Each Subject

Marks for the Grade Calculation

CALCULATION OF GPA/CGPA/PERCENTAGE

This is a figure preferably from 0.00 to 4.00 be used to indicate the performance of a student in the semester concerned . A standard scale of 0.00 to 4.00 is recommended to all HEIs.

$$\text{GPA} = \frac{\text{Sum over all courses in a Semester (Course Credit Hours x Grade Points Earned)}}{\text{Total Semester Credit Hours}}$$

Semester Grade Point Average (GPA) and Cumulative Grade Point Averages (CGPAs) will be calculated using the following relationships:

$$\text{CGPA} = \frac{\text{Sum over all taken courses in all Semesters (Course Credit Hours x Grade Points Earned)}}{\text{Total Credit Hours taken in all Semester}}$$

Percentage will be calculated using the following relationships:

$$\text{PERCENTAGE} = \frac{\text{Sum of the marks obtain in over all taken courses in all Semesters}}{\text{Sum of the Total Marks of all subjects taken in all Semester}}$$





LAHORE

Defence Road Main Campus
1-KM Defence Road, off Buptian Chowk, Lahore
admissions@uol.edu.pk, info@uol.edu.pk

SARGODHA

10-KM Lahore Road, Sargodha
Tel: +92 331 81101 12, admissions@sdg.uol.edu.pk

UAN: +92 42 111 865 865

Tel: +92 42 32300865, +92 42 35467356-9

 **0325 1 865 865**

www.uol.edu.pk