Sarhad University
of Science & Information Technology
Peshawar

SUIT
POSTGRADUATE PROSPECTUS
2025-26

Step Into Bright Future

CONTENTS

Sarhad University

Messages 02
About Sarhad University 06
Vision & Mission Statement 07
SUIT's Organizational Structure 08
Board of Governors 09
Academic Council 10
Recognition & Accreditation 12
Convocation-Wise Graduates 13
Student Strength at Main Campus 14
Student Strength in Distance Education 15
Growth in Faculty at Sarhad University 16
SUIT Islamabad Campus 17

Faculty of Engineering & Technology

Department of Civil Engineering 22
Department of Electrical Engineering 32
Department of Mechanical Engineering 42

Faculty of Life Sciences

Department of Pharmacy 51
Institute of Nursing Sciences 66
Sarhad Institute of Allied Health Sciences 70
Sarhad Institute of Health Sciences 88

Faculty of Sciences, Computer Science & IT

Department of Computer Science & IT 93
Department of Mathematics 106

Faculty of Management Sciences

Department of Business Administration 111

Faculty of Arts, Social Sciences & Education

Department of Education 122
Department of Library & Information Sciences 127
Department of Sports Sciences & Physical Education 130
Department of Humanities 136
Department of Urdu 139

Sarhad University

Admission Committee 145
Important Rules & Regulations 146
Societies of the University 173
Legal Status 176
Documents to be Attached with Admission Form 177

Message from the
Governor, Khyber Pakhtunkhwa

Higher Education; a demanding but a highly rewarding field of education system, plays a pivotal role in fulfilling the quest for bringing pleasant change in the socio-economic fabric of the society and ensures better future both for the country and the people. In the given circumstances, achieving this cherished goal indeed demands constant efforts, sustained determination and resources on part of individuals, institutions and the society alike. In line with the desired targets one can witness an encouraging environment, enthusiastic approach, high spirit and a confident struggle at every level in the province.

It is indeed a pleasure to note that the Sarhad University of Science & Information Technology, Peshawar is engaged as an active partner along its sister institutions, working both in the public and private sectors in the ongoing struggle to achieve the target set forth for the cause of education. The initiative to introduce demand driven, result oriented and contemporary disciplines, besides continuing research and educational activities in the existing institutions and infrastructure development for further expansion of the campus provides a heartening and convincing reason to judge the pace, with which it is progressing, is impressive.

While writing these lines for the Prospectus 2025-26 of the University, I also take the advantage to congratulate the management, faculty and students especially the new entrants for successfully stepping into their new pursuits and wish more success to all of them.

Faisal Karim Kundi

Message from the
President, Sarhad University

It is a matter of immense pleasure for me to record my message for the prospectus 2025-26.

It is a unique imagination and a marvelous experience that a journey I started in the year 2001, is now unfolding its colors in many ways. The launching of Sarhad University with a humble start of programs in Computer Science, IT and Management Sciences from ab-initio was a gigantic task which I could not have accomplished alone. It was my team which worked with unmatchable hard work and dedication as the resources were meager and the resolve to reach the students was unflinching.

It had been my life-long desire to reach and serve people from an area that direly needed my services and contributions in the higher education sector. The Khyber Pakhtunkhwa province suited my objective more than any other neglected areas of Pakistan due to its close proximity to my base-station and the energetic segment of students of the Province, who otherwise have all the potentials to be in the driving seat. I chose education as my preferred objective and the young generation as my prime target as no society in the civilized world could ever progress without educating upcoming generations.

Dear students, Sarhad University with state-of-the-art buildings housing spacious classrooms, scientific and research laboratories, a huge library with latest books, Seminar Hall, dedicated parking space along with sports facilities is now fully functional to offer academic programs in various disciplines. In the wake of latest developments we have put in place a robust security system backed by CCTV cameras with recording facilities through DVR system, walk through gates and metal detectors to maintain a secured environment at the premises. The testimony to our success can be judged from out-flow of our graduates who are currently serving in almost all the public departments at provincial and national level. Beside those many pursuing their higher studies at various International Universities. I would also like to extend my thanks to the students who opt to join Sarhad University to be in our fold for the coming 4-5 years with a pledge to work for their better education and settlement in their assignments.

Muhammad Riaz Karim

Message from the
Vice President, Sarhad University

I am happy to convey my message about Sarhad University which was established in the year 2001, with the sole objective of providing quality education at higher level according to the expectations of our youth. I would like to apprise you that today; our university is placed in highest category of HEC. We have worked round the clock over the last 24 years to achieve this level of excellence and proved ourselves in accordance with the expectations of all stakeholders. The University as of today is home to more than 6000 students in contemporary disciplines including Pharmacy, Nursing, Allied Health Sciences, Computer Sciences, Software Engineering, Management Sciences, Engineering, Art & Design, Humanities and Social Sciences. These programs are being supervised by more than 70 PhD's, around 190 M.Phil/MS and MSc degree holders, having vast teaching and administrative experience.

Our teaching Departments are associated with the modern labs equipped with latest and up-to-date equipment required for the practical work of the students to gain hands on experience.

The Departments of Pharmacy, Nursing and Allied Health Sciences are also linked with the major hospitals of Peshawar City for clinical rotation of the students to directly deal with the patients of their particular specialties.

SUIT believes in imparting quality education and for this purpose, we have established a full-fledged Quality Enhancement Cell to fine tune our programs with regular intervals. Our Quality Enhancement Cell is fully functional to supervise the quality of programs according to HEC's laid down criteria and there is a continuous progress in our academic programs to achieve this very goal.

It will be in place to write that Office of Research, Innovation and Commercialization (ORIC) has also been established. More so, bringing the university under one umbrella has provided us the opportunity to focus on research activities for which faculty members and students are provided with financial and material assistance. Seminars, Workshops, Curricular & Co-curricular activities are held regularly to groom our students. I assure all students of my fullest support to educate them in the best possible manner so that they could prove their metal in their respective fields after graduation from Sarhad University.

Azmat Ali

Message from the
Vice Chancellor, Sarhad University

It is a privilege for me to be associated with such a progressive and rapidly developing University. During the last 24 years, Sarhad University has made landmark achievements in many areas. The Faculty size has increased manifold due to induction of a number of PhD and M.Phil Degree holders in the field of Engineering, Pharmacy, Nursing, Management Sciences, Computer Science, Arts, Education and certain health-related disciplines. Our focus on quality education has enabled the students to acquire relevant knowledge and to become true professionals. Academic activities like conferences, workshops, and seminars have not only created an environment conducive for research, but have also added to the experience of our faculty and students. Our graduates, equipped with the right blend of knowledge and skills are prepared to carve their niche in the corporate world and to play their due role in socio-economic development of the country. I attribute our success in all these areas to the faculty, management and students whose devotion, hard work, sincerity, and determination have earned us high reputation and due recognition.

Selecting a particular degree program for stepping into professional life is one of the most crucial decisions. Equally difficult is the choice of an institution of higher learning to pursue the selected degree program. For those who have reached this decision making stage, Sarhad University offers diverse fields at its Main Campus in Peshawar, Islamabad campus and the opportunity to learn online / distance education. May Allah Almighty bless our youth and guide them in making right decisions, and enable the University management to give its best to the students.

Prof. Dr. Salim Ur Rehman

About
Sarhad University

Sarhad University of Science & Information Technology (SUIT), Peshawar is the largest and top ranked multi-disciplinary Research and Teaching University of Khyber Pakhtunkhwa in Private Sector. It is located at Ring Road, Peshawar, offering 100+ Degree Programs from Bachelors to Doctorate level with highest number of Academic Departments / Institutes and award winning Faculty. The professional degree programs offered by SUIT are accredited with Pakistan Engineering Council, Pharmacy Council of Pakistan, Pakistan Nursing & Midwifery Council, Allied Health Professionals Council, Computing Council (NCEAC), Business Education Council (NBEAC), National Accreditation Council of Teacher Education (NACTE) and National Technology Council (NTC).

SUIT has state of the art buildings with spacious classrooms and labs, equipped with the ultra-modern equipment and teaching facilities.

SUIT has qualified faculty members with more than 70 PhDs, and 190+ Master Degree holders from national and international Universities of repute.

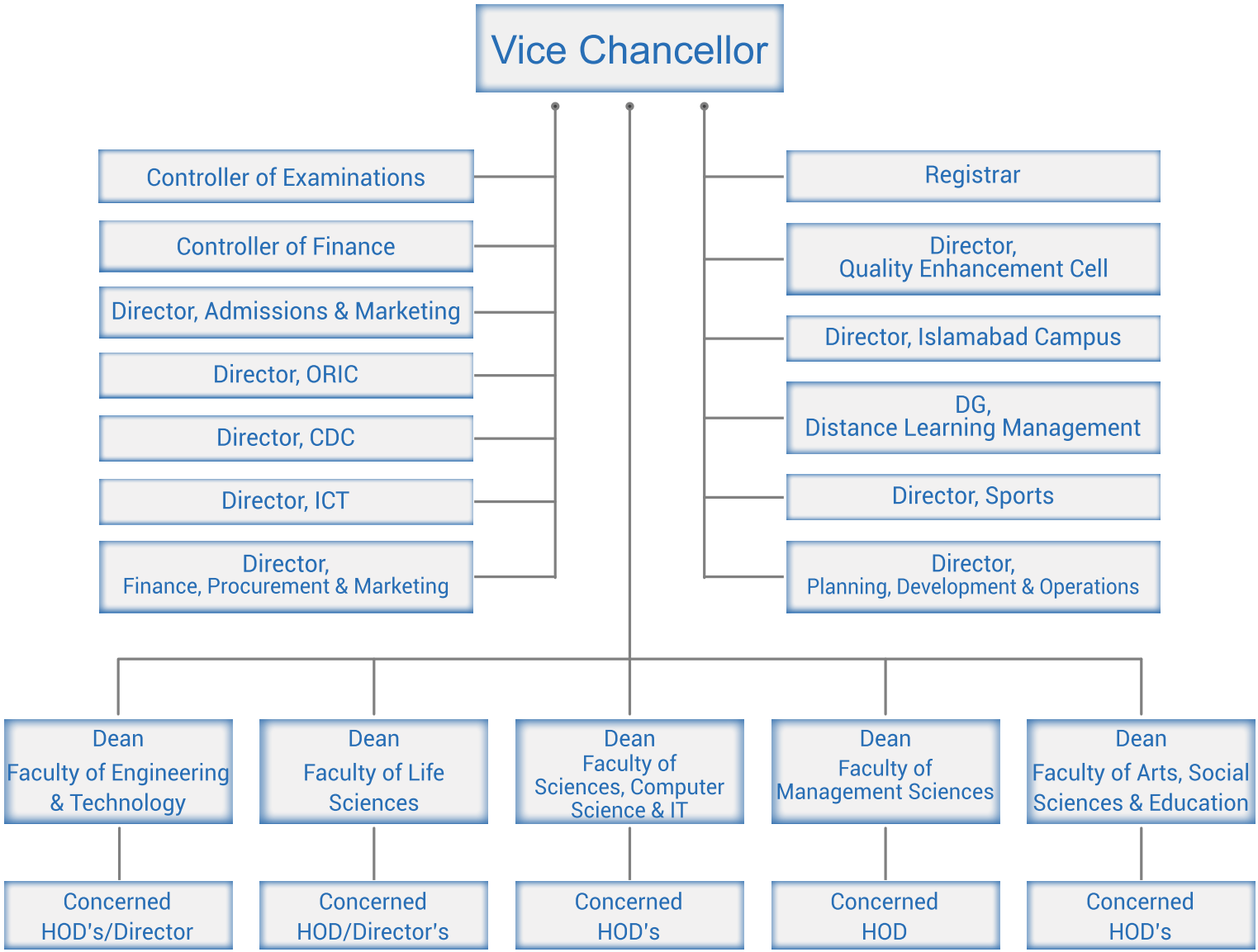
Vision

To achieve excellence in teaching & research in all academic fields.

Mission

To provide educational facilities of international standards to the youth and to produce graduates & researchers at National and Global levels.

SUIT's Organizational Structure



Board of Governors

The Board of Governors of Sarhad University is the highest executive authority of the University. It comprises personalities of high standing in academic and professions both from the public and private sectors of higher education. Th board has all the powers necessary to formulate Statutes, Regulations and Policies aimed at ensuring high academic standards in respect of all academic programs run by the University at Bachelor, Master and Doctoral levels. The Board also enjoys powers to frame laws and policies aimed at recruiting persons of eminence in academics for senior slots in the academic hierarchy who are able to give their best to the students, who will serve the country and the community appropriately for socio-economic development. The basic criteria for selection of teachers and administrators laid down in the University Charter are competence, integrity and efficiency, which is adhered to in letter and spirit.

Prof. Dr. Salim-ur-Rehman,
Vice-Chancellor (Chairman).

Mr. Azmat Ali,
Vice President,
Sarhad University, Peshawar /
Member, Board of Trustees.

Chairman HEC,
or his Nominee.

Dr. Akhtar Ali Shah,
Former Secretary
Home and Tribal Affairs Dept.,
Government of Khyber Pakhtunkhwa.

Prof. Dr. Zia Ul Qayyum,
Former Vice Chancellor,
A.I.O.U Islamabad.

Mr. Muhammad Ayub Khan,
Hon'ble (Retd) Judge,
Peshawar High Court,
Peshawar

Secretary,
Higher Education Department,
Government of Khyber Pakhtunkhwa

Prof. Dr. Sahar Noor,
Dean Faculty of Mechanical,
Chemical and Industrial Engineering,
UET Peshawar

Mr. Liaqat Ahmed Khan,
Former President,
Sarhad Chamber of Commerce &
Industry, Peshawar.

Prof. Dr. Safia Ahmad (T.I),
Vice Chancellor,
Shaheed Benazir Bhutto Women
University, Peshawar.

Mr. Muhammad Taimoor Riaz,
Member, Board of Trustees,
Al-Beruni Trust for Educational
Development, Islamabad.

Mr. Immad Azmat,
Member, Board of Trustees,
Al-Beruni Trust for Educational
Development, Islamabad.

Prof. Dr. Abdul Waheed Mughal,
Dean Faculty of Arts, Social Sciences
& Education,
Sarhad University, Peshawar

Dr. Aamir Aziz
Director QEC,
Sarhad University, Peshawar.

Dr. Shabir Ahmad,
Director ORIC,
Sarhad University, Peshawar.

Mr. Muhammad Nasir,
Registrar,
Sarhad University, Peshawar.
(Member/Secretary)

Academic Council

The Academic Council of the University, constituted in accordance with provisions of the University Charter, is the highest academic forum of the University with powers to lay down proper standards of instruction, research, publication, examinations, and to regulate and promote the academic life at the University.

Prof. Dr. Salim-ur-Rehman, Vice-Chancellor (Chairman).	**Prof. Dr. Abdul Waheed Mughal,** Dean, Faculty of Arts, Social Sciences & Education.	**Meritorious Prof. Dr. Zafar Iqbal (T.I),** Dean, Faculty of Life Sciences.
Prof. Dr. Saeed Mahfooz, Dean, Faculty of Sciences, CS/IT and Faculty of Management Sciences.	**Prof. Dr. Arshad Ali,** Dean, Faculty of Engineering & Technology.	**Engr. Abdul Hadi** Head, Department of Mechanical Engineering.
Engr. Dr. Abid Saeed, Head, Department of Electrical Engineering.	**Prof. Dr. Sudhair Abbas,** Head, Department of Pharmacy.	**Prof. Dr. Syed Gohar Abbas,** Head, Department of Business Administration.
Prof. Dr. Jahangir Khan, Head, Department of Computer Science & IT.	**Prof. Dr. Khisro Kaleem Raza,** Head, Department of Education.	**Dr. Ghuncha Begum,** Head, Department of Urdu.
Prof. Dr. Saadullah Afridi, Director, Sarhad Institute of Health Sciences.	**Syed Arif Ali Shah,** Head, Department of Library & Information Sciences.	**Head,** Department of Sports Sciences & Physical Education.
Dr. Fazal Mehmood, Director, Sarhad Institute of Allied Health Sciences.	**Ms. Shaheen Ghani,** Director, Institute of Nursing Sciences.	**Engr. Muhammad Faisal Khan,** Director, Department of Technologies.
Dr, Aamir Aziz, Director, QEC.	**Dr. Shabir Ahmad,** Director ORIC,	**Engr. Fazal Khaliq,** Professor, Department of Civil Engineering.
Engr. Dr. Fazli Karim, Associate Professor, Department of Civil Engineering.	**Engr. Adil Shahzad,** Assistant Professor, Department of Civil Engineering.	**Dr. Azhar Ali,** Associate Professor in Mathematics, Department of Electrical Engineering.
Mr. Mumtaz Khan, Associate Professor in Mathematics, Department of Electrical Engineering.	**Engr. Dr. Obaid-ur-Rehman,** Professor, Department of Electrical Engineering.	**Dr. Wasal Khan,** Professor, Department of Education.

Dr. Abdul Wadood,
Associate Professor,
Department of Education.

Dr. Fazli Amin,
Professor,
Department of Pharmacy.

Dr. Muhammad Ashfaq,
Associate Professor,
Department of Pharmacy.

Ms. Nasreen Ghani,
Professor,
Institute of Nursing Sciences.

Dr. Shahid Mehmood,
Associate Professor,
Sarhad Institute of Allied Health Sciences.

Dr. Asif Mehmood,
Associate Professor,
Sarhad Institute of Allied Health Sciences.

Dr. Muhammad Ismail Mohmand,
Associate Professor,
Department of Computer Science & IT

Engr. Fayaz Ahmad,
Assistant Professor,
Department of Technologies

Prof. Dr. Iftikhar Hussain,
Former Vice Chancellor,
UET, Peshawar.

Prof. Dr. Asif Khan,
Former Vice Chancellor,
University of Peshawar.

Dr. S. M. Hassan Shah,
Professor,
Department of Pharmacy.

Dr. Naila Raziq,
Associate Professor,
Department of Pharmacy.

Dr. M. Kifayatullah,
Associate Professor,
Department of Pharmacy.

Dr. Nasir Ali,
Associate Professor,
Sarhad Institute of Allied Health Sciences.

GC (Rtd) Muhammad Sadiq Malik,
Coordinator, Department of English

Dr. Shahid Latif,
Associate Professor,
Department of Computer Science & IT.

Dr. Muhammad Imtiaz,
Professor,
Department of Urdu.

Dr. Rabia Naeem,
Senior Lecturer,
Sarhad Institute of Allied Health Sciences.

Dr. Muhammad Farooq,
Professor, Shaikh Zayed Islamic Center,
University of Peshawar.

Dr. Jamshaid Ali Khan,
Professor, Department of Pharmacy,
University of Peshawar.

Mr. Muhammad Nasir,
Registrar / Secretary.

Dr. Tariq Abbas,
Professor in Mathematics,
Department of Pharmacy.

Dr. Muhammad Asif Khan,
Associate Professor,
Department of Pharmacy.

Dr. Naila Shahbaz,
Associate Professor,
Department of Pharmacy.

Dr. Muhammad Ateeq Qureshi,
Associate Professor,
Sarhad Institute of Allied Health Sciences.

Ms. Anosha Akbar,
Coordinator,
Department of Art & Design

Dr. Haroon-ur-Rasheed,
Associate Professor,
Department of Computer Science & IT

Dr. Rabia Ishrat,
Associate Professor,
Department of Business Administration.

Secretary, Higher Education Dept,
Govt. of Khyber Pakhtunkhwa,
Peshawar / or his nominee.

Dr. Ejaz Gul Ghauri,
Ex-Principal Scientific Officer,
PCSIR Labs; Peshawar.

Advisor (Academics) HEC;
or his Nominee.

Recognitions & Accreditations

ENGINEERING

Electrical, Civil and Mechanical Engineering Programs
are accredited by the Pakistan Engineering Council, Islamabad.

PHARMACY

Pharm-D (Doctor of Pharmacy) Program
is recognized by the Pharmacy Council of Pakistan, Islamabad.

NURSING

Nursing Program is accredited by the
Pakistan Nursing & Midwifery Council, Islamabad.

ALLIED HEALTH SCIENCES

Allied Health Sciences Programs
are recognized by the Allied Health Professionals Council, Islamabad.

ENGINEERING TECHNOLOGY

Engineering Technology Programs
are accredited by the National Technology Council, Islamabad.

COMPUTER SCIENCE & IT

Computer Sc., Software Engg., Cyber Security, & Artificial Intelligence Programs
are accredited by the National Computing Education Accreditation Council, Islamabad.

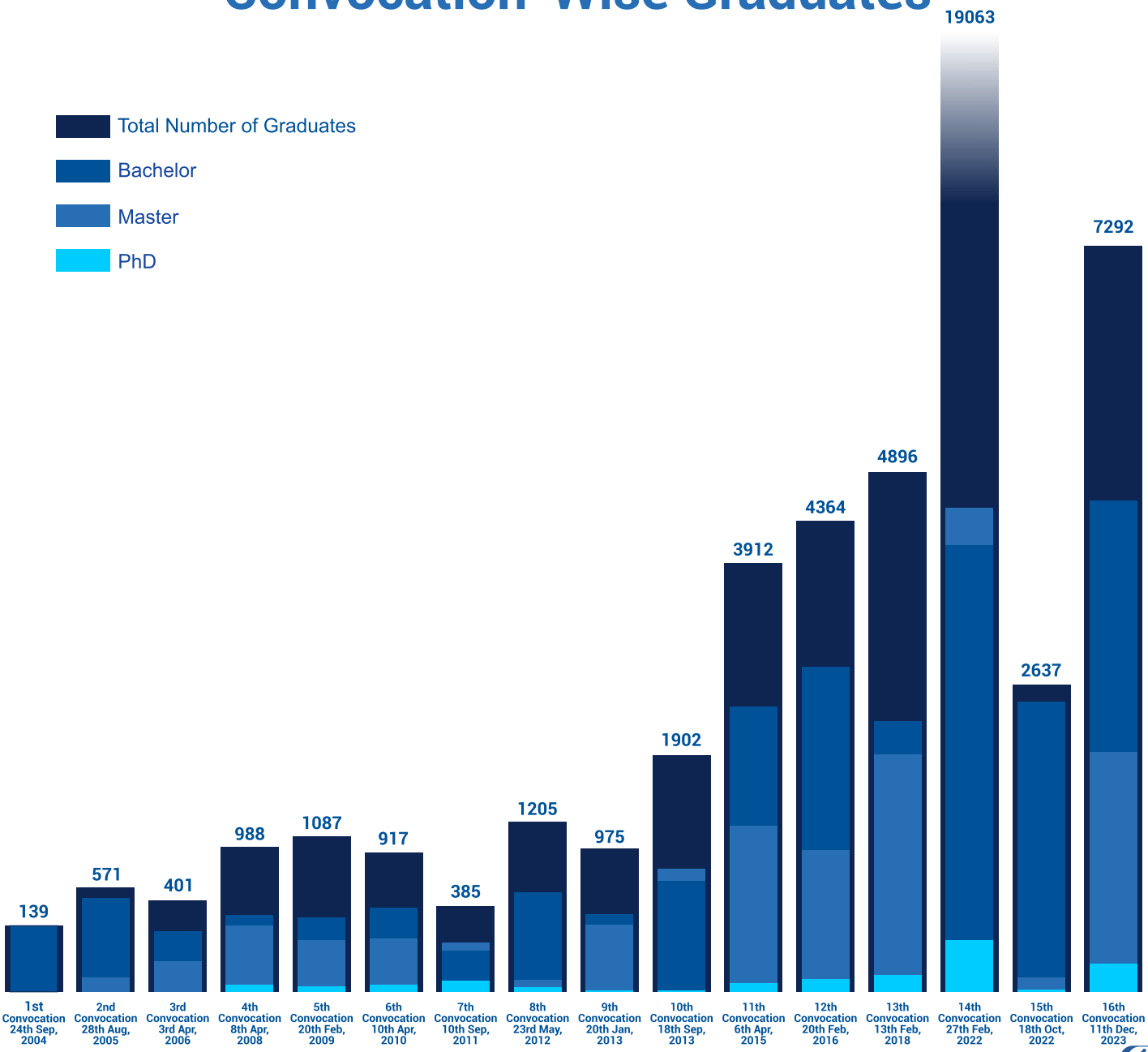
BUSINESS ADMINISTRATION

Business Administration Programs are accredited by the
National Business Education Accreditation Council Islamabad.

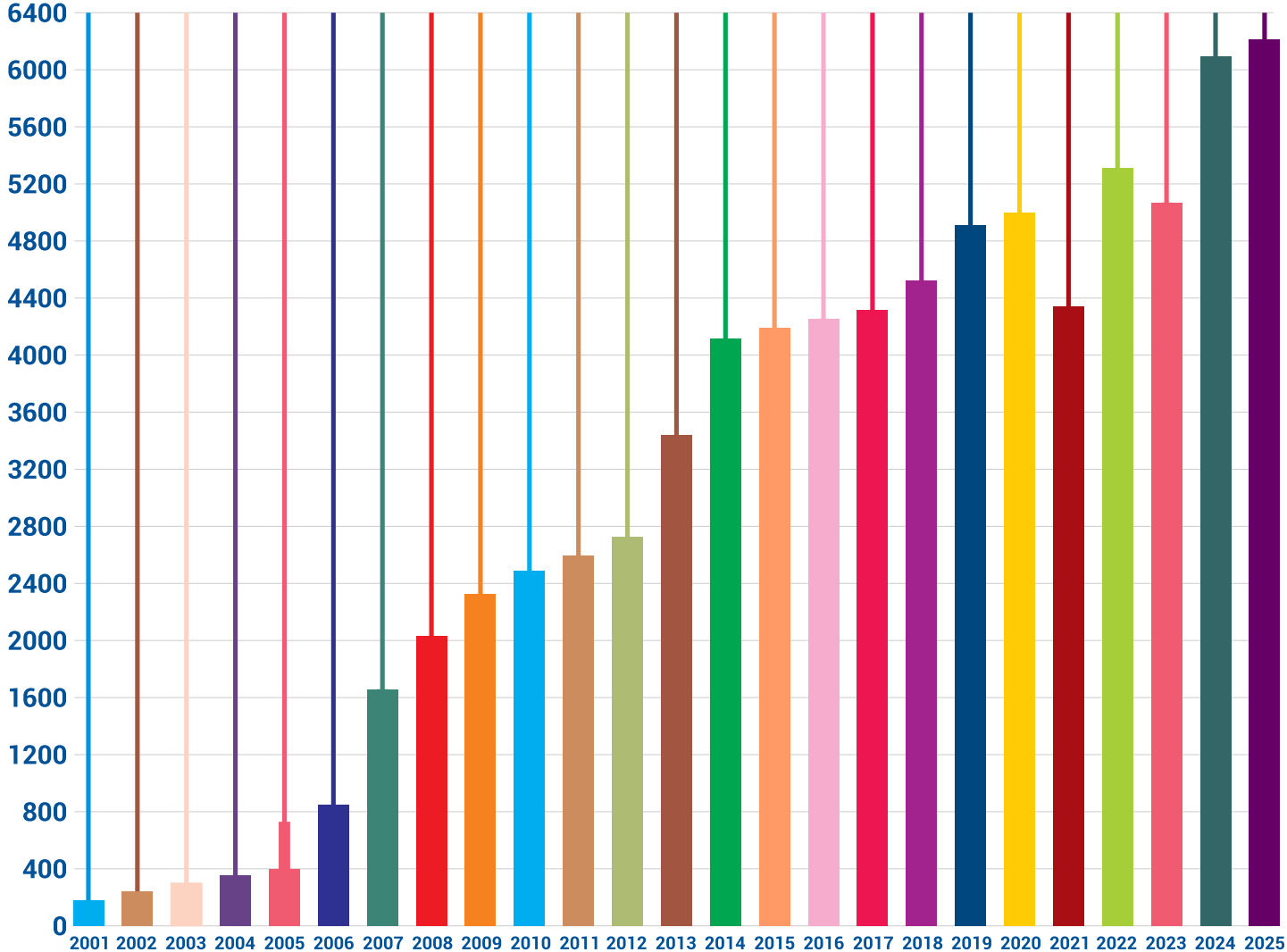
EDUCATION

Education Programs are accredited by the National
Accreditation Council for Teacher Education, Islamabad.

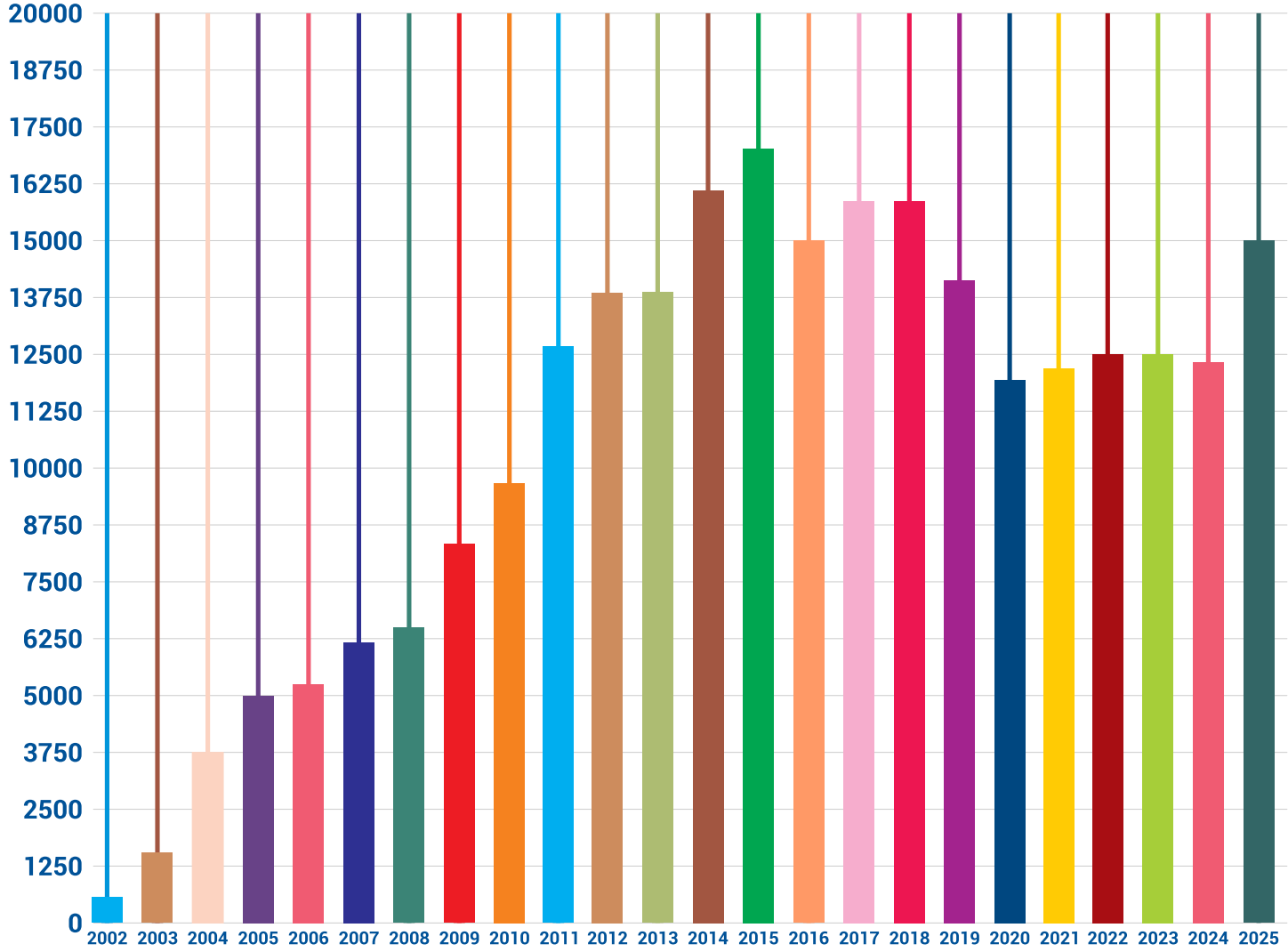
Convocation-Wise Graduates



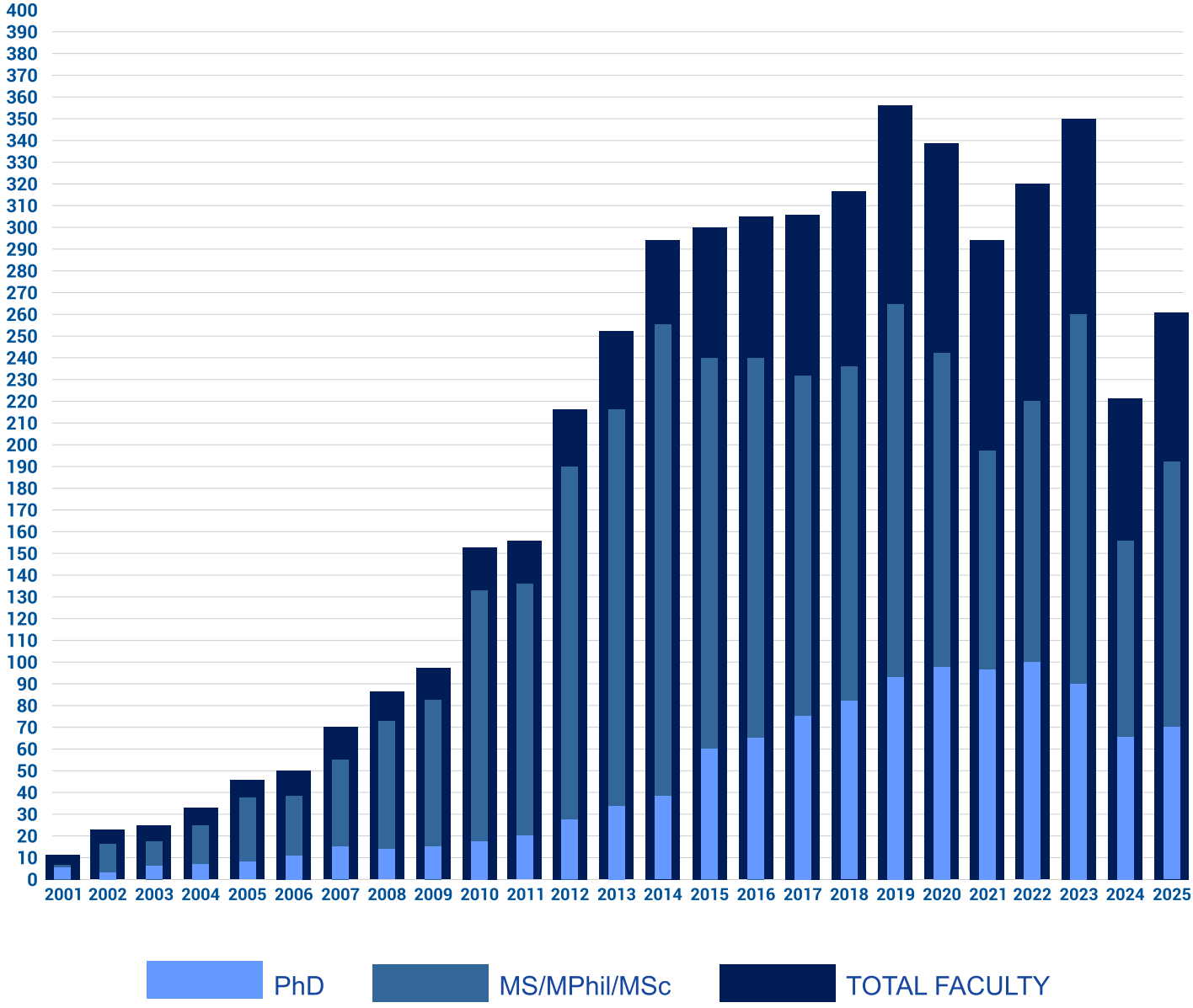
Student Strength at Main Campus



Student Strength in Distance Education



Growth in Faculty at Sarhad University



Sarhad University of Science & IT
Islamabad Campus

The University achieved yet another milestone by established the Islamabad Campus with the approval of HEC, Islamabad granted vide letter No. 15(16)/A&A/Acc/HEC-2023/553, dated 28th August, 2023.

The Islamabad Campus, located at a posh area of Rawat, Islamabad started its academic journey from Fall-2024

Sarhad University of Science & IT, T-Chowk, GT Road, Rawat, Islamabad, Islamabad Capital Territory 44000

Tel: 051-3757628, 051-3757692, 051-3757695, 03288880918-9 Cell: 0328-8880916-7

LEARN. EXECUTE. ANALYZE. DISTRIBUTE

Programs offered at SUIT Islamabad Campus

Pharmacy

- Doctor of Pharmacy (Pharm-D) (5 years)

Number of Seats: Morning: 100
Evening: 100

Pharm-D program is recognized by the Pharmacy Council of Pakistan

Allied Health Sciences

- Doctor of Physiotherapy (DPT) (5 years)
- BS Anesthesia Technology (4 years)
- BS Cardiology Technology (4 years)
- BS Dental Technology (4 years)
- BS Health Technology (4 years)
- AD Medical lab Technology (2 years)
- BS Medical lab Technology (4 years)
- BS Nutrition & Dietetics (4 years)
- BS Optometry Technology (4 years)
- BS Radiology & Imaging Technology (4 years)
- BS Surgical Technology (4 years)
- BS Cardiac Perfusion Technology (4 years)
- BS Emergency & Intensive Care Tech. (4 years)

Allied Health Sciences Programs are registered with Allied Health Professionals Council, Islamabad

English

- AD English (2 years)
- BS English (4 years)

Nursing Sciences

- BS Nursing (4 years)

Number of Seats: 70

BS Nursing program is recognized by the Pakistan Nursing & Midwifery Council

Computer Science & IT

- BS Computer Science (4 years)
- BS Software Engineering (4 years)
- BS Artificial Intelligence (4 years)
- Bachelor of Computer Arts (4 Years)

BS Computer Science, BS Software Engineering & BS Artificial Intelligence programs are accredited by the National Computing Education Accreditation Council

Business Administration

- AD Business Administration (2 years)
- BBA (4 years)

Business Administration Programs are accredited by the National Business Education Accreditation Council

Sports Sciences & Physical Edu.

- AD Physical Education (2 years)
- BS Sports Science & Physical Edu. (4 years)
- MS Sports Science & Physical Edu. (2 years)
- PhD Sports Science & Physical Edu. (3 years)

Faculty of Engineering and Technology

Department of Civil Engineering
Department of Electrical Engineering
Department of Mechanical Engineering

Department of **Civil Engineering**

Vision

To establish a platform for producing Civil Engineers, imbibed with leadership qualities and moral character, for the professional growth and sustainable development.

Mission

To provide high quality Civil Engineering education that is essential for undertaking professional challenges, enhancing, teamwork talents communication and inter-personal skills, and for providing a socially acceptable workable solutions through continuous life-long learning processes.

Programs Offered:

- Master of Science in **Civil Engineering**
- Master of Science in **Civil Engineering Technology**
- Doctor of Philosophy in **Civil Engineering**

Faculty Members, Department of Civil Engineering

Engr. Prof. Dr. Arshad Ali
Dean Faculty of Engineering & Tech.,
Ph.D Civil Engg. (Environmental Engg),
UET, Taxila

Engr. Dr. Muhammad Rizwan
Associate Professor,
Ph.D Civil Engg. (Structural Engg.),
UET, Peshawar

Engr. Khurram Saleem
Assistant Professor,
MS Hydro-Power Engg.,
UET, Lahore

Engr. Qamar Zaman
Assistant Professor,
MS Remote Sensing and GIS,
NUST, Islamabad

Engr. Osama Farid
Lecturer,
MS Construction & Engg. Management,
NUST, Islamabad

Engr. Sangeen Khan
Lab Engineer,
BSc Civil Engineering,
Sarhad University, Peshawar

Engr. Fazle Khaliq
Professor,
MSc Public Health Engineering,
UET, Lahore

Engr. Dr. Hanif Ullah
Assistant Professor,
Ph.D Civil Engg. (Transportation Engg),
CECOS University, Peshawar

Engr. Adil Shahzad
Assistant Professor
MSc Civil Engg. (Structural Engg),
UET, Peshawar

Engr. Muhammad Nouman
Assistant Professor / Coordinator,
MS Civil Engg (Structural Engg),
UET, Peshawar

Mr. Muhammad Atizaz Ahsan
Lecturer,
MS Construction & Engg. Management,
The Superior College, Lahore

Engr. Dr. Fazli Karim
Associate Professor,
Ph.D Civil Engg. (Transportation Engg.),
UET, Taxila

Engr. Shahab Ahmad
Assistant Professor,
MS Civil Engg. (Environmental Engg.),
UET, Peshawar

Engr. Arbab Imran Khan
Assistant Professor,
MSc Transportation Engineering,
UET, Peshawar

Miss Asmarah Kanwal
Assistant Professor,
MS Mathematics,
UET, Peshawar

Engr. Hafiz Adil Shah
Lab Engineer,
BSc Civil Engineering,
Sarhad University, Peshawar

Master of Science in **Civil Engineering**

Recognized by Higher Education Commission (HEC)

Program Code	049
Credit Hours	35-38
Plan A: Number of Courses	11 + Research Thesis
Plan B: Number of Courses	13 + Project
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	9th July, 2011

Program Objectives:

To escort the graduates in continual learning by pursuing advanced degrees or additional educational opportunities through conducting innovating research, prepare them to develop team work and have excellent interpersonal communication skills.

Eligibility Criteria:

Candidates possessing the Bachelor of Civil Engineering or Bachelor of Engineering in relevant fields (Structure Engineering, Transportation Engineering, Geotechnical Engineering, Environmental Engineering, Water Resources Engineering, Architecture Engineering, Urban and Infrastructure Engineering, etc), duly recognized by PEC, with a minimum CGPA of 2.00 out of 4.00.

Applicant needs to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University with at least 50% cumulative score and to clear departmental interview at the time of admission.

Program Outcomes:

After completion of MS Program, Scholars will be able to:

- Excel professionally in the field of Civil Engineering by planning, designing, constructing and operating inter-disciplinary projects of civil works.
- Attain optimum level of technical expertise and impart efficient managerial skills imbibed with team work abilities.
- Take-up any challenging task by utilizing time and resources along with their technical creativity and proactive approach in order to play leading role in organization, and displaying high moral and ethical standards.
- Will be able to meet the industrial requirements by providing innovative and comprehensive solution.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Core-I	3-0
	Core-II	3-0
	Core-III	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.09
	Core-IV	3-0
	Core-V	3-0
	Core-VI	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.10
RES 585	Applied Research Methods	3-0
	Elective-I	3-0
	Elective-II	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs. 06 / 09
Plan A: MS with Research Work		
RES 690	Research Thesis	0-6
Plan B: MS with Course Work		
	Elective-III	3-0
	Elective-IV	3-0
	Project	0-3

Specializations Offered

- Environmental Engineering
- Water Resources Engineering
- Geotechnical Engineering
- Structural Engineering
- Transportation Engineering
- Construction Engineering & Management

Environmental Engineering

List of Core Courses

Course Code	Course Title	Cr. Hrs.
CE 601	Fundamentals of Environmental Engineering	3-0
CE 602	Unit Process Designing	3-0
CE 604	Waste Management Techniques	3-0
CE 606	Environmental Pollution Control	3-0
CE 607	Environmental Chemistry and Microbiology	3-0
CE 613	Environmental Impact Assessment	3-0

List of Elective Courses

Course Code	Course Title	Cr. Hrs.
CE 603	Advanced Sanitary Engineering	3-0
CE 605	Advanced Water Supply Engineering	3-0
CE 608	Ecology and Risk Assessment	3-0
CE 609	Occupational Health and Safety	3-0
CE 610	Water Quality Modeling	3-0
CE 611	Agricultural Pollution Control	3-0
CE 612	Marine Pollution and Control	3-0

Structural Engineering

List of Core Courses

Course Code	Course Title	Cr. Hrs.
CE 627	Bridge Engineering	3-0
CE 628	Dynamics of Structures	3-0
CE 629	Concrete Technology	3-0
CE 630	Pre-Stressed Concrete	3-0
CE 631	Structural Analysis	3-0
CE 632	Reinforced Concrete	3-0

List of Elective Courses

Course Code	Course Title	Cr. Hrs.
CE 633	Finite Element Analysis	3-0
CE 634	RC Structures (Special Topics)	3-0
CE 635	Repair and Retrofitting of Structures	3-0
CE 636	Design of Masonry Structures	3-0
CE 637	Computer Applications to Structural Engineering	3-0
CE 638	Special Topics in Structural Engineering	3-0
CE 639	Advanced Steel Design	3-0
CE 640	Advanced Mechanics of Materials	3-0

Water Resources Engineering

List of Core Courses

Course Code	Course Title	Cr. Hrs.
CE 614	Open Channel Flow	3-0
CE 615	Sediment Transport and River Engineering	3-0
CE 616	Design of Hydraulic Structure	3-0
CE 617	Hydropower Engineering	3-0
CE 618	Advanced Engineering Hydrology	3-0
CE 619	Advanced Irrigation Engineering	3-0

List of Elective Courses

Course Code	Course Title	Cr. Hrs.
CE 620	Statistical Hydrology	3-0
CE 621	Hydropower Engineering	3-0
CE 622	Flood Estimation and Control	3-0
CE 623	Reservoir Design and Operation	3-0
CE 624	Remote Sensing and GIS for Civil Engineers	3-0
CE 625	Groundwater Hydrology and Exploration	3-0
CE 626	Applied Hydrogeology	3-0

Transportation Engineering

List of Core Courses

Course Code	Course Title	Cr. Hrs.
CE 641	Pavement Structure and Design	3-0
CE 642	Traffic Management Techniques	3-0
CE 643	Advanced Pavement Engineering	3-0
CE 644	Intelligent Transport Systems (ITS)	3-0
CE 645	Pavement Evaluation and Rehabilitation	3-0
CE 646	Traffic Safety	3-0

List of Elective Courses

Course Code	Course Title	Cr. Hrs.
CE 647	Materials Specification for Highway Engineering	3-0
CE 648	Transportation Planning and Modelling	3-0
CE 649	Airport Engineering	3-0
CE 650	Railway Engineering	3-0
CE 651	Geometric Design of Highways	3-0
CE652	Pavement Construction and Maintenance	3-0
CE 653	Ground Improvement Techniques	3-0
CE 654	Asphalt Mix Design and Construction	3-0

Geotechnical Engineering

List of Core Courses

Course Code	Course Title	Cr. Hrs.
CE 655	Soil Dynamics	3-0
CE 656	Ground Improvement Techniques	3-0
CE 657	Slope Stability Analysis	3-0
CE 658	Site Investigation and Instrumentation	3-0
CE 659	Engineering Properties of Soils	3-0
CE 660	Advanced Foundations Engineering - I	3-0

List of Elective Courses

Course Code	Course Title	Cr. Hrs.
CE 661	Geotechnical Earthquake Engineering	3-0
CE 662	Advanced Foundations Engineering - II	3-0
CE 663	Geoenvironmental Engineering	3-0
CE 664	Rock Mechanics and Tunneling Engineering	3-0
CE 665	Advanced Engineering Geology	3-0
CE 666	Geotechnical Modeling	3-0
CE 667	Earth Retaining Structures	3-0
CE 668	Unsaturated Soil Mechanics	3-0
CE 669	Special Topics in Geotechnical Engineering	3-0

Construction Engineering & Management

List of Core Courses

Course Code	Course Title	Cr. Hrs.
CE 670	Contract Management	3-0
CE 671	Economic Decision Analysis	3-0
CE 672	Construction Planning, Scheduling and Control	3-0
CE 673	Construction Risk Management	3-0
CE 674	Construction Project Administration	3-0
CE 675	Human Resource Management	3-0

List of Elective Courses

Course Code	Course Title	Cr. Hrs.
CE 676	Construction Safety Management	3-0
CE 677	Sustainable Construction	3-0
CE 678	Construction Cost Estimation	3-0

For elective courses, the students can also opt for any core / elective course (s) of other specialization .

Master of Science in Civil Engineering Technology

Recognized by Higher Education Commission (HEC)

Program Code	134
Credit Hours	35-38
Plan A: Number of Courses	11 + Research Thesis
Plan B: Number of Courses	13 + Project
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	8th August, 2011

Program Objectives:

To escort the graduates in continual learning by pursuing advanced degrees or additional educational opportunities through conducting innovating research, prepare them to develop team work and have excellent interpersonal communication skills.

Eligibility Criteria:

Candidates having 16 years of education in B-Tech/BSc Engineering Technology/BE in relevant field with 2.00 CGPA on the scale of 4.00 in semester system or at least 50% marks in annual system from any recognized institute/university are eligible to apply.

Applicants needs to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of admission.

Program Outcomes:

After completion of MS Program, Scholars will be able to:

- Excel professionally in the field of Civil Technology by planning, designing, constructing and operating inter-disciplinary projects of civil works.
- Attain optimum level of technical expertise and impart efficient managerial skills imbibed with team work abilities.
- Take-up any challenging task by utilizing time and resources along with their technical creativity and proactive approach in order to play leading role in organization, and displaying high moral and ethical standards.
- Will be able to meet the industrial requirements by providing innovative and comprehensive solution.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Core-I	3-0
	Core-II	3-0
	Elective-I	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.09
	Core-III	3-0
	Core-IV	3-0
	Elective-II	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.10
	Core-V	3-0
	Core-VI	3-0
RES 585	*Applied Research Methods	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06 / 09
Plan A: MS with Research Work		
RES 690	Research Thesis	0-6
Plan B: MS with Course Work		
	Elective-III	3-0
	Elective-IV	3-0
	Project	0-3

Specialization Offered

Civil Engineering Technology

List of Core Courses

Course Code	Course Title	Cr. Hrs.
CT 501	Advanced Properties of Concrete	3-0
CT 502	Advanced Public Health Engineering	3-0
CT 505	Soil Improvement Techniques	3-0
CT 506	Geometrics and Safety of Highways	3-0
CT 507	Pavement Construction and Maintenance	3-0
CT 511	Advanced Reinforced Concrete	3-0

List of Elective Courses

Course Code	Course Title	Cr. Hrs.
CT 503	Environmental Technology	3-0
CT 504	Advanced Structural Technology	3-0
CT 508	Management in Construction	3-0
CT 509	Health and Safety in Construction	3-0
CT 510	Estimation and Costing Practice	3-0
CT 512	Soil Technology	3-0
CT 513	Ground Water Hydrology	3-0

Doctor of Philosophy in **Civil Engineering**

Recognized by Higher Education Commission (HEC)

Program Code	131
Credit Hours	56
Number of Courses	8 + Dissertation
Minimum Duration	6 Semesters, 3 Years
Maximum Duration	16 Semesters, 8 Years
Minimum CGPA Required To Earn Degree	3.00
HEC NOC Issuance Date	22nd November, 2023

Program Objectives:

The PhD Program is initiated with an objective; that the scholar will demonstrate the ability to research, analyze and apply advanced science and engineering concepts to the solution of complex engineering problems to meet the industrial needs, with a talent to communicate effectively.

Eligibility Criteria:

Candidates having 18 years of education in MS/MSc in Civil Engineering with 3.00 CGPA on the scale of 4.00 in semester system or at least 60% marks in annual system from any recognized institute/university are eligible to apply.

Candidates needs to pass GRE/ HAT/ SU-GAT (General) conducted by any Registered Testing Agency or University with at least 60% cumulative score and qualify interview to be conducted by the concerned department.

Candidates who have done MS without Research thesis may be considered for admission in the PhD program if they submit a published paper in an HEC recognized journal as a Principal Author. Other T&Cs of the HEC and Sarhad University will also apply.

Program Outcomes:

After completion of the PhD Civil Engineering Degree Program, the scholar will be able to:

- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, cultural, social, environmental, and economic factors.
- Exhibit proficiency in applying the knowledge and skills to solve complex civil engineering problems for sustainable development
- Demonstrate leadership, research and innovation capabilities, and effectively communicate technical knowledge and information.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Elective-I	3-0
	Elective-II	3-0
	Elective-III	3-0
QT 701	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.10
	Elective-IV	3-0
	Elective-V	3-0
	Elective-VI	3-0
QT 801	Fehm-e-Quran - II	0-1

Semester Three and Onwards:

Course Code	Course Title	Cr. Hrs.09
RES 900	Dissertation	0-9

Note for Scholars:

- Course will be selected from the given list of approved courses in consultation with the Research Advisor.
- The Research Advisor may direct the scholar to register for additional courses related to the area of research.
- Scholar needs to be registered in dissertation of Nine (09) credit hours for each semester for minimum of four (04) semesters.
- Scholar will submit his/her research proposal for approval from BOASAR.
- The scholar shall be required to publish a research paper in an HEC recognized journal before the public defense of the PhD dissertation.
- University Rules and Regulations for Post Graduate Degrees will be applicable.
- *HEC quality criteria will be applicable.

List of Elective Courses

Course Code	Course Title	Cr. Hrs.
CE 701	Advanced Environmental Engineering	3-0
CE 702	Physico-Chemical Processes in Environmental Engineering	3-0
CE 703	Wastewater Treatment and Designing	3-0
CE 704	Solid and Hazardous Waste Management	3-0
CE 705	Water Treatment and Designing	3-0
CE 706	Air and Noise Pollution Control	3-0
CE 707	Advanced Open Channel Flow	3-0
CE 708	Advanced River Engineering	3-0
CE 709	Dams and Reservoir Design	3-0
CE 710	Low Head Hydropower Production Design	3-0
CE 711	Urban Hydrology	3-0
CE 712	Subsurface Drainage Engineering	3-0
CE 713	Advanced Bridge Design	3-0
CE 714	Advanced Structures Dynamics	3-0
CE 715	Advanced Concrete Technology	3-0
CE 716	Advanced Pre-Stressed Concrete Design	3-0
CE 717	Advanced Structural Analysis	3-0
CE 718	Advanced Concrete Design	3-0
CE 719	Pavement Structure and Mix Design	3-0
CE 720	Traffic Engineering Management Techniques	3-0
CE 721	Advanced Pavement Material Engineering	3-0
CE 722	Intelligent Transportation Systems (ITS)	3-0
CE 723	Pavement Evaluation and Restoration	3-0
CE 724	Traffic Safety Measures	3-0
CE 725	Soil Dynamics Engineering	3-0
CE 726	Ground Stabilization Methods	3-0
CE 727	Slope Stability Investigation	3-0
CE 728	Site Exploration and Instrumentation	3-0
CE 729	Mechanical Properties of Soil	3-0
CE 730	Advanced Foundations Engineering Techniques	3-0
CE 731	Chemistry & Microbiology of Water and Wastewater	3-0
CE 732	Environmental Policies and Impact Assessment	3-0

Department of **Electrical Engineering**

Mission

The mission of the Department of Electrical Engineering is to produce graduate equipped with state-of-the-art education, in-depth knowledge and relevant skills to foster research and development activities, expose them to the complete cycle of research process and emphasize on the precept of how innovation blended with creativity can result in viable and meaningful research outcomes.

Programs Offered:

- Master of Science in **Electrical Engineering**
- Master of Science in **Electrical Engineering Technology**
- Doctor of Philosophy in **Electrical Engineering**

Faculty Members, Department of Electrical Engineering

Engr. Dr. M. Abid Saeed
Head of Department / Associate Prof.,
Ph.D Electrical Engineering.
Shanghai Jiao Tong University, China.

Engr. Dr. Obaid Ur Rehman
Professor / Coordinaor,
Ph.D Electrical Engineering,
Zhejiang University, China.

Dr. Azhar Ali
Associate Professor,
Ph.D Mathematics,
Islamia College University, Peshawar.

Engr. Mohsin Iqbal
Assistant Professor,
MS Electrical Engineering,
Sarhad University, Peshawar

Engr. Muhammad Iqbal Khan
Assistant Professor,
MS Electrical Engineering,
Sarhad University, Peshawar.

Engr. Saleh Lutfullah Kakakhel
Assistant Professor,
MS Electrical Engineering,
Sarhad University, Peshawar.

Engr. Iftikhar Khan
Assistant Professor,
MS Electrical Engineering,
CECOS University, Peshawar

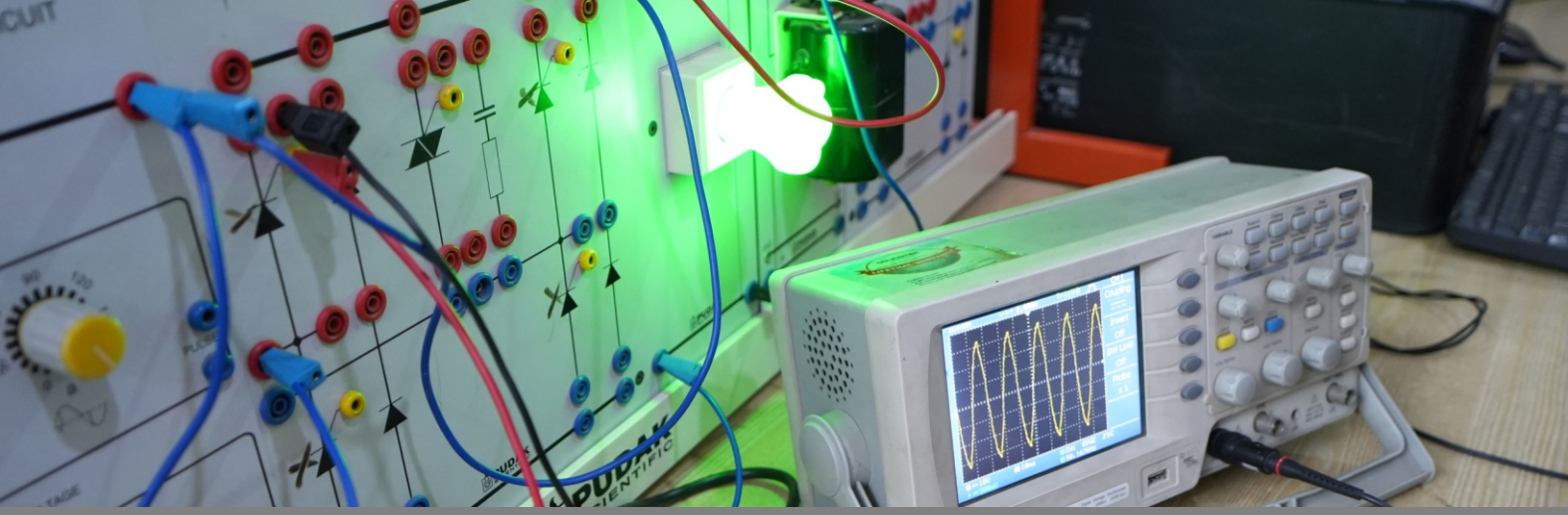
Engr. Muhammad Fahim
Assistant Professor,
MS Electrical Engineering,
Sarhad University, Peshawar

Engr. Noman Muslim
Assistant Professor,
MS Electrical Engineering,
Sarhad University, Peshawar

Engr. Syed Dildar Hussain Shah
Assistant Professor,
MS Electrical Engineering,
Sarhad University, Peshawar

Engr. Shahid Alam
Assistant Professor,
MS Electrical Engineering,
UET, Peshawar.

Engr. Syed Noman Shah
Lab Engineer,
BSc Electrical Engineering,
City University, Peshawar



Master of Science in Electrical Engineering

Recognized by Higher Education Commission (HEC)

Program Code	048
Credit Hours	35-38
Plan A: Number of Courses	11 + Research Thesis
Plan B: Number of Courses	13 + Project
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	9th July, 2011

Eligibility Criteria:

Candidates possessing Bachelor of Electrical Engineering, or Bachelor of Engineering in relevant fields (Electronics Engineering, Telecommunication Engineering, Computer Systems Engineering), obtained after 16 years of education with a minimum 2.00 CGPA on the scale of 4.00 in semester system or at least 50% marks in annual system from any recognized institute/university and registered with Pakistan Engineering Council shall be eligible for admission.

Applicant needs to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of admission.

Program Objectives:

The program objectives are to:

- Help graduates develop a more profound knowledge base of the particular subject at an advanced level.
- Equip graduates with the necessary tools to undergo simulation studies, research, optimize engineering designs and solutions.
- Assist and motivate graduates to become leaders, entrepreneurs, consultants, and successful engineers.
- Emphasize importance of continuous learning and skill development to function and survive in a competitive landscape.
- Make graduates understand the importance of team building, effective communication skills, and function efficiently as an individual and as a part of a team.
- Emphasize on upholding professional ethics.

Program Outcomes:

After completion of the MS program in Electrical Engineering, scholars will be able to:

- Apply knowledge of Electrical Engineering, Mathematics and Sciences Fundamentals.
- Identify and formulate electrical engineering problems, and to find out their solutions.
- Technically communicate efficiently and clearly using oral, written and graphical form.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Core-I	3-0
	Core-II	3-0
	Elective-I	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.09
	Core-III	3-0
	Core-IV	3-0
	Elective-II	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.10
	Core-V	3-0
	Core-VI	3-0
RES 580	Research Methodology	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06 / 09
Plan A: MS with Research Work		
RES 690	Research Thesis	0-6
Plan B: MS with Course Work		
	Elective-III	3-0
	Elective-IV	3-0
	Project	0-3

Specializations Offered

Electronics and Communication

Power System

List of Core Courses

Electronics and Communication

Course Code	Course Title	Cr. Hrs.
EE 626	Solid State Electronics	3-0
EE 635	Wireless Networks	3-0
EE 535	Linear Systems and Control	3-0
EE 522	Advanced Digital Signal Processing	3-0
EE 631	Advanced Electronics Devices	3-0
EE 624	Advanced Communication System	3-0
EE 619	Radio Frequency and Microwave Engineering	3-0
EE 507	Advance Power Electronics	3-0
EE 643	Digital Communication	3-0
EE 637	Optimization Techniques in Engineering	3-0

Power System

Course Code	Course Title	Cr. Hrs.
EE 603	High Voltage Engineering	3-0
EE 509	Power System Engineering	3-0
EE 517	Power Distribution, Control & Automation	3-0
EE 535	Linear Systems and Control	3-0
EE 526	Power System Protection	3-0
EE 537	Power System Stability and Control	3-0
EE 507	Advance Power Electronics	3-0
EE 532	Alternative Energy Resources	3-0
EE 514	Power System Planning & Design	3-0
EE 637	Optimization Techniques in Engineering	3-0

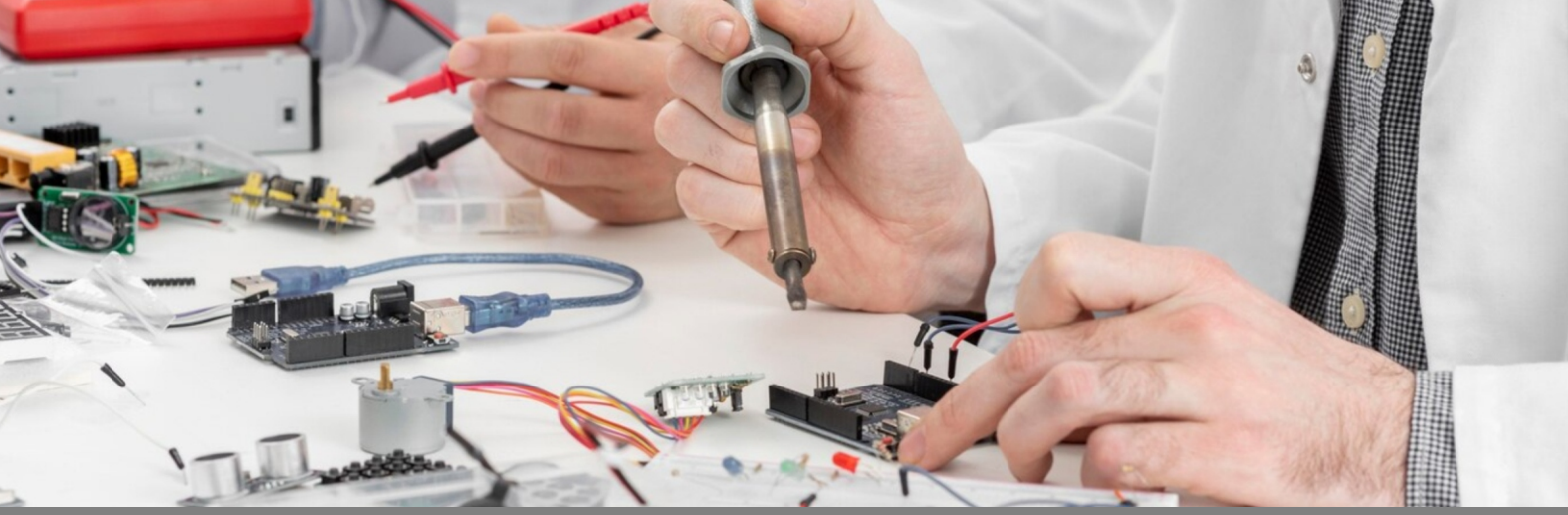
List of Elective Courses

Electronics and Communication

Course Code	Course Title	Cr. Hrs.
EE 601	Digital Speech Processing	3-0
EE 624	Advanced Communication Networks	3-0
EE 630	Biometric Systems	3-0
EE 642	Computational Photonics	3-0
EE 644	Optical Properties of Nanostructure Materials	3-0
EE 650	Solar Cell Technology	3-0
EE 652	Advanced Nanomaterials for Renewable Energy Applications	3-0
EE 654	Performance, Modeling and Simulation	3-0
EE 609	Computer Vision	3-0
EE 619	Advanced Data Communication	3-0
EE 611	Pattern Recognition	3-0
EE 539	Theory of Lasers	3-0
EE 621	Antenna and Wave Propagation	3-0
EE 544	Neural Networks	3-0
EE 536	Advanced Optical Communication	3-0
EE 645	Digital Control Systems	3-0
EE 563	Advanced Optical Communication	3-0
EE 540	Stochastic Processes	3-0
EE 541	Multimedia Systems and Communication	3-0
EE 622	Optics, Vision and Cameras	3-0
EE 628	Nano-Electronics	3-0
EE 632	Optoelectronics and Photonics	3-0
EE 515	Artificial Intelligence	3-0
EE 605	Digital Video System	3-0
EE 639	Advanced Mobile Communication	3-0
EE 538	Digital Image Processing	3-0
EE 523	Nanotechnology and Energy	3-0
EE 650	Advanced Communication Systems	3-0
EE 653	Software Defined Networking	3-0
EE 655	Network Design and Management	3-0
EE 657	Switching Technologies for Data Centers	3-0
EE 659	Data Centers and Renewable Energy	3-0

Power System

Course Code	Course Title	Cr. Hrs.
EE 607	Power Quality	3-0
EE 613	Flexible AC Transmission	3-0
EE 615	Power System Transients	3-0
EE 623	Advanced Topics in Power Engineering	3-0
EE 560	Energy Management	3-0
EE 604	Distributed Energy Generation	3-0
EE 650	Solar Cell Technology	3-0
EE 652	Advanced Nanomaterials for Renewable Energy Applications	3-0
EE 654	Performance, Modeling and Simulation	3-0
EE 633	Power System Reliability	3-0
EE 641	Modeling & Simulation of Power System Components	3-0
EE 647	Dielectric & Electrical Insulation Materials	3-0
EE 515	Artificial Intelligence	3-0
EE 627	HVDC Transmission	3-0
EE 629	Variable Speed Drive	3-0
EE 645	Digital Control Systems	3-0
EE 518	Advanced Power Systems Distribution	3-0
EE 519	Electrical Machine Design	3-0
EE 534	Photoactive Materials & Their Characterization	3-0
EE 510	Wind Energy Engineering	3-0



Master of Science in Electrical Engineering Technology

Recognized by Higher Education Commission (HEC)

Program Code	016
Credit Hours	35-38
Plan A: Number of Courses	11 + Research Thesis
Plan B: Number of Courses	13 + Project
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	6th August, 2011

Eligibility Criteria:

Candidates having 16 years of education in B-Tech/BSc Engineering Technology/BE in relevant field with 2.00 CGPA on the scale of 4.00 in semester system or at least 50% marks in annual system from any recognized institute/university are eligible to apply.

Applicants needs to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of admission.

Program Objectives:

The program objectives are to:

- Help graduates develop a more profound knowledge base of the particular subject at an advanced level.
- Equip graduates with the necessary tools to undergo simulation studies, research, optimize engineering designs and solutions.
- Assist and motivate graduates to become leaders, entrepreneurs, consultants, and successful engineers.
- Emphasize importance of continuous learning and skill development to function and survive in a competitive landscape.
- Make graduates understand the importance of team building, effective communication skills, and function efficiently as an individual and as a part of a team.
- Emphasize on upholding professional ethics.

Program Outcomes:

After completion of the MS program in Electrical Engineering Technology, scholars will be able to:

- Apply knowledge of Electrical Technology, Mathematics and Sciences Fundamentals.
- Identify and formulate Electrical Technology problem, and to find out their solutions.
- Technically communicate efficiently and clearly using oral, written and graphical form.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Core-I	3-0
	Core-II	3-0
	Elective-I	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.09
	Core-III	3-0
	Core-IV	3-0
	Elective-II	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.10
	Core-V	3-0
	Core-VI	3-0
RES 580	Research Methodology	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06 / 09
Plan A: MS with Research Work		
RES 690	Research Thesis	0-6
Plan B: MS with Course Work		
	Elective-III	3-0
	Elective-IV	3-0
	Project	0-3

Specializations Offered

Electronics and Communication

Power System

List of Core Courses

Electronics and Communication

Course Code	Course Title	Cr. Hrs.
ET 626	Solid State Electronics	3-0
ET 635	Wireless Networks	3-0
ET 535	Linear Systems and Control	3-0
ET 522	Advanced Digital Signal Processing	3-0
ET 631	Advanced Electronics Devices	3-0
ET 649	Advanced Communication System	3-0
ET 619	Radio Frequency and Microwave Technology	3-0
ET 507	Advanced Power Electronics	3-0
ET 643	Digital Communication	3-0
ET 637	Optimization Techniques in Engineering	3-0

Power System

Course Code	Course Title	Cr. Hrs.
ET 603	High Voltage Technology	3-0
ET 519	Power System Technology	3-0
ET 507	Advanced Power Electronics	3-0
ET 535	Linear Systems and Control	3-0
ET 526	Power System Protection	3-0
ET 537	Power System Stability and Control	3-0
ET 529	Power System Operation	3-0
ET 501	Renewable Energy Technologies	3-0
ET 637	Optimization Techniques in Engineering	3-

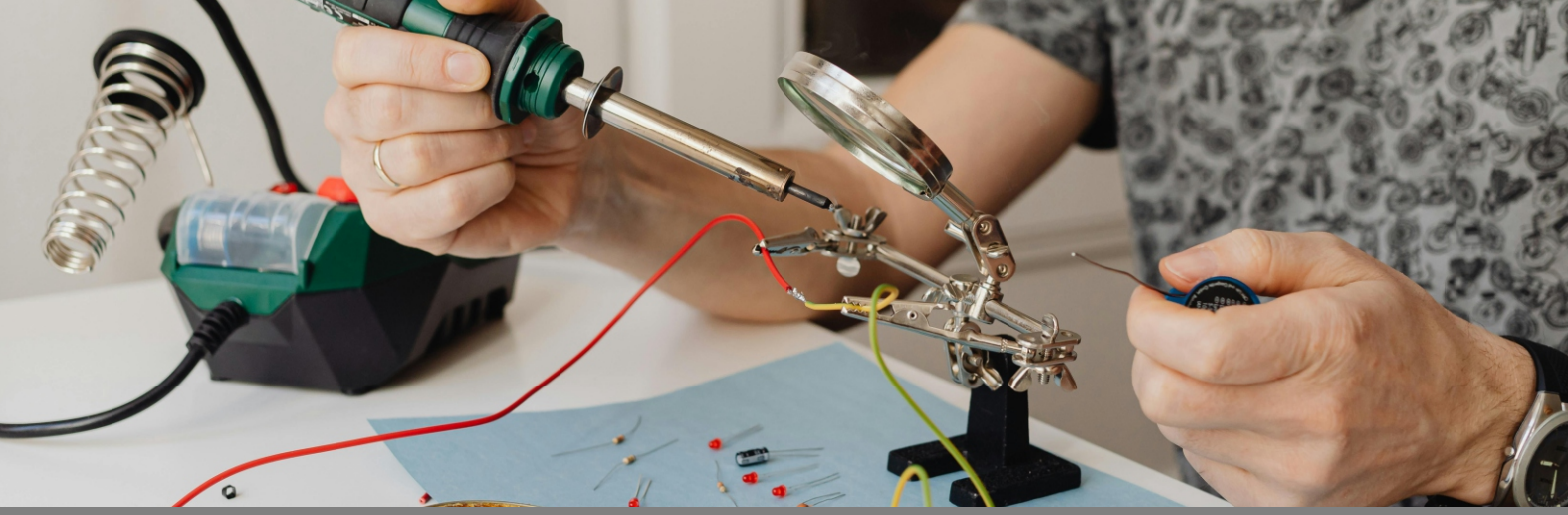
List of Elective Courses

Electronics and Communication

Course Code	Course Title	Cr. Hrs.
ET 601	Digital Speech Processing	3-0
ET 605	Digital Video System	3-0
ET 619	Advanced Data Communication	3-0
ET 624	Advanced Communication Networks	3-0
ET 630	Biometric Systems	3-0
ET 642	Computational Photonics	3-0
ET 644	Optical Properties of Nanostructure Materials	3-0
ET 650	Solar Cell Technology	3-0
ET 652	Advanced Nanomaterials for Renewable Energy Applications	3-0
ET 654	Performance, Modeling and Simulation	3-0
ET 609	Computer Vision	3-0
ET 611	Pattern Recognition	3-0
ET 539	Theory of Lasers	3-0
ET 621	Antenna and Wave Propagation	3-0
ET 544	Neural Networks	3-0
ET 536	Advanced Mobile Communication	3-0
ET 645	Digital Control Systems	3-0
ET 563	Advanced Optical Communication	3-0
ET 540	Stochastic Processes	3-0
ET 541	Multimedia Systems and Communication	3-0
ET 622	Optics, Vision and Cameras	3-0
ET 628	Nano-Electronics	3-0
ET 632	Optoelectronics and Photonics	3-0
ET 515	Artificial Intelligence	3-0
ET 505	Power Electronics and Machines	3-0
ET 511	Applied Photovoltaic Engineering	3-0
ET 609	Photoactive Materials and Their Characterization	3-0
ET 611	Advanced Computer Networks	3-0
ET 613	Personal and Mobile Communication	3-0
ET 615	Advanced Satellite Communication System	3-0
ET 515	Materials Characterization Techniques	3-0
ET 517	Special Electromechanical Devices	3-0
ET 601	Electric Drive Systems	3-0
ET 605	Magnetic Measurements and Electrical Machines	3-0

Power System

Course Code	Course Title	Cr. Hrs.
ET 514	Power System Planning & Design	3-0
ET 607	Power Quality	3-0
ET 613	Flexible AC Transmission	3-0
ET 623	Advanced Topics in Power Engineering	3-0
ET 560	Energy Management	3-0
ET 604	Distributed Energy Generation	3-0
ET 650	Solar Cell Technology	3-0
ET 633	Power System Reliability	3-0
ET 652	Advanced Nanomaterials for Renewable Energy Applications	3-0
ET 654	Performance, Modeling and Simulation	3-0
ET 641	Modeling & Simulation of Power System Components	3-0
ET 647	Dielectric & Electrical Insulation Materials	3-0
ET 515	Artificial Intelligence	3-0
ET 517	Power Distribution & Control and Automation	3-0
ET 501	Renewable Energy Technologies	3-0
ET 505	Power Electronics & Machines	3-0
ET 509	Environment impact Assessment	3-0
ET 511	Applied Photovoltaic Engineering	3-0
ET 513	Renewable Energy Mega Power Plants	3-0
ET 515	Materials Characterization Techniques	3-0
ET 507	Advance Power Electronics	3-0
ET 617	Magnetic Measurements and Electrical Machines	3-0
ET 609	Photoactive Materials and Their Characterization	3-0
ET 510	Wind Energy Engineering	3-0



Doctor of Philosophy in Electrical Engineering

Recognized by Higher Education Commission (HEC)

Program Code	128
Credit Hours	56
Number of Courses	8 + Dissertation
Minimum Duration	6 Semesters, 3 Years
Maximum Duration	16 Semesters, 8 Years
Minimum CGPA Required To Earn Degree	3.00
HEC NOC Issuance Date	9th July, 2011

Eligibility Criteria:

Candidates having 18 years of education in MS / Masters in Electrical/ Electronics /Computer System Engineering with 3.00 CGPA on the scale of 4.00 in semester system or at least 60% marks in annual system from any recognized institute/university are eligible to apply.

Candidates needs to pass GRE/ HAT/ SU-GAT (General) conducted by any Registered Testing Agency or University with at least 60% cumulative score and qualify interview to be conducted by the concerned department.

Candidates who have done MS without Research thesis may be considered for admission in the PhD program if they submit a published paper in an HEC recognized journal as a Principal Author. Other T&Cs of the HEC and Sarhad University will also apply.

Program Objectives:

The objectives of the program are to:

- Enable scholars to engage in advanced study, foster original and scholarly research.
- Integrate professional education and experience to wards betterment of humanity.
- Emphasize on upholding professional ethics.

Program Outcomes:

After completion of PhD program in Electrical Engineering the scholars will be able to:

- Apply knowledge of Mathematics, Science and Electrical Engineering to understand and solve real-life problems.
- Analyze systems and interpret results in the areas of Electrical Power Engineering, Electronic Engineering, Communication Engineering, Computer Systems Engineering and Control Systems.
- Design systems in the areas of Electrical Power Engineering, Electronic Engineering, Communication Engineering, Computer Systems Engineering and Control Systems keeping in view the socio-economic and environmental impact.
- Acquire high professional ethics and be good citizens. And;
- Acquire lifelong learning skills to continue to stay on top of advances in the field of Electrical Engineering.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Elective-I	3-0
	Elective-II	3-0
	Elective-III	3-0
QT 701	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.10
	Elective-IV	3-0
	Elective-V	3-0
	Elective-VI	3-0
QT 801	Fehm-e-Quran - II	0-1

Semester Three and Onwards:

Course Code	Course Title	Cr. Hrs.09
RES 900	Dissertation	0-9

List of Elective Courses

Course Code	Course Title	Cr. Hrs.
EE 702	Advanced topics in Communication Engineering	3-0
EE 708	Advanced topics in Electronics Engineering	3-0
EE 713	Advanced topics in Power Engineering	3-0
EE 719	Advanced topics in Control System Engineering	3-0
EE 727	Advanced topics in Micro and Nanosystems	3-0
EE 732	Advanced topics in Network systems	3-0
EE 735	MOS VLSI circuit design	3-0
EE 737	Real Time DSP Design and Applications	3-0
EE 740	Advanced Digital Communications	3-0
EE 742	Research Methods in PhD Studies	3-0
EE 745	Power Management in Wired and Wireless Systems	3-0
EE 748	Low Power System Design	3-0
EE 749	Advanced System Modeling and Simulation	3-0
EE 751	Special Topics in Distributed Systems	3-0
EE 753	Power Awareness in Distributed Systems	3-0
EE 759	Power System Stability and Dynamics	3-0
EE 760	HVDC and Flexible AC Transmission	3-0
EE 762	Rural Electrification and Distributed Generation	3-0
EE 765	Artificial Intelligence techniques in Power Systems	3-0
EE 767	Power System Deregulation	3-0

List of Elective Courses

Course Code	Course Title	Cr. Hrs.
EE 769	Advanced Computer Architecture	3-0
EE 770	Advanced Embedded Systems	3-0
EE 772	Advanced Digital System Design	3-0
EE 774	ASIC Design Methodology	3-0
EE 776	Power Aware Computing	3-0
EE 721	Advanced Artificial Intelligence	3-0
EE 780	Advanced Neural Networks	3-0
EE 801	Data Warehousing and Mining	3-0
EE 803	Formal Methods and Specifications	3-0
EE 805	Human Aspects in Software Engineering	3-0
EE 807	Advanced Engineering Mathematics	3-0
EE 809	Logic and Research	3-0
EE 810	Advanced Qualitative Research Methods	3-0
EE 814	Critical Review of Literature	3-0
EE 816	Agent Based Modeling	3-0
EE 820	Bio Medical Image Analysis	3-0
EE 824	Optimal Sampled-Data Control Systems	3-0
EE 827	Networked Dynamic Systems	3-0
EE 829	Modern Control Theory	3-0
EE 736	Semiconductor Device Modeling	3-0
EE 739	Principles of Energy Engineering	3-0
EE 775	Magnetism, Magnetic Materials & Measurements	3-0
EE 744	Energy Management in Communication Network	3-0
EE 801	Advance Topics in Wind Energy Engineering	3-0

Note for Scholars:

- Course will be selected from the given list of approved courses in consultation with the Research Advisor.
- The Research Advisor may direct the scholar to register for additional courses related to the area of research.
- Scholar needs to be registered in dissertation of Nine (09) credit hours for each semester for minimum of four (04) semesters.
- Scholar will submit his/her research proposal for approval from BOASAR.
- The scholar shall be required to publish a research paper in an HEC recognized journal before the public defense of the PhD dissertation.
- University Rules and Regulations for Post Graduate Degrees will be applicable.
- *HEC quality criteria will be applicable.

Department of **Mechanical Engineering**

Vision

To nurture academic and economic vitality through teaching, research, and outreach in the field of Mechanical Engineering in order to improve the quality of life.

Mission

To provide the students a high quality education in Mechanical Engineering and Allied disciplines to maintain a recognition through service to the National and International community.

Programs Offered:

- Master of Science in **Mechanical Engineering**
- Master of Science in **Mechanical Engineering Technology**

Faculty Members, Department of Mechanical Engineering

Engr. Abdul Hadi
Head of Department / Associate Prof.,
MS Mechanical Engineering,
Shiraz University, Iran

Engr. Dr. Babar Ashfaq
Assistant Professor,
Ph.D Mechanical Engineering,
GIKI, Swabi

Engr. Mian Muhammad Asim Zahir
Assistant Professor,
MS Mechanical Engineering,
NUST, Islamabad

Engr. Muhammad Irfan
Assistant Professor,
MS Mechanical Engineering,
UET Peshawar

Engr. Muhammad Ilyas
Assistant Professor,
MS Engineering Management,
Sarhad University, Peshawar

Engr. Zeeshan Wazir
Assistant Professor,
MS Engineering Management,
Sarhad University, Peshawar

Engr. Mohsin Amin
Lecturer / Coordinator,
MS Mechanical Engineering,
GIKI, Swabi

Engr. Aftab Ahmad
Lecturer,
MS Mechanical Engineering,
GIKI, Swabi

Engr. Muhammad Rohan Shafiq
Lab Engineer,
MS Mechanical Engineering,
GIKI, Swabi

Master of Science in **Mechanical Engineering**

Recognized by Higher Education Commission (HEC)

Program Code	117
Credit Hours	34-37
Plan A: Number of Courses	11 + Research Thesis
Plan B: Number of Courses	13 + Project
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	9th July, 2011

Eligibility Criteria:

Candidates possessing the relevant Bachelor of Engineering degree, obtained after 16 years of education with 2.00 CGPA on the scale of 4.00 in semester system or at least 50% marks in annual system from any recognized institute/university and registered with Pakistan Engineering Council shall be eligible for admission.

Applicant needs to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of admission.

Program Objectives:

The objectives of the program are to:

- Bring the scholar abreast with the most recent developments in the field of mechanical engineering.
- Provide scholars with the essential analytical tools, technical skills, engineering insight and practical problem solving abilities to face the modern technological challenges.
- Inculcate a sense of professionalism in the scholars so that they become cognizant of ethics and social responsibilities.
- Produce graduates possessing effective communication, interpersonal and project management skills and capable of working as team members and leading multi-disciplinary teams.
- Emphasize on upholding professional ethics.

Program Outcomes:

After completion of the MS program in Mechanical Engineering, scholars will be able to:

- Design, fabricate, assemble, erect, operate and maintain complex mechanical engineering systems.
- Avail employment opportunities in the industrial fields related to thermo-fluid systems, mechanical engineering design, engineering materials, manufacturing engineering, engineering management, mechatronics, and dynamics and control systems.
- Make significant contribution to the socio-economic development of the country as highly productive and useful members of the society.
- Work in multi-racial, multi-ethnic, multi-cultural, and multi-religious social set up as peaceful and tolerant individuals.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Core Course-I	3-0
	Core Course-II	3-0
	Elective-I	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.09
	Core Course-III	3-0
	Core Course-IV	3-0
	Elective-II	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.09
	Core Course-V	3-0
	Core Course-VI	3-0
RES 581	Research Methodology	2-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs. 06 / 09
Plan A: MS with Research Work		
RES 690	Research Thesis	0-6
Plan B: MS with Course Work		
	Elective-III	3-0
	Elective-IV	3-0
	Project	0-3

Specializations Offered

- Mechanical Engineering Design
- Thermo Fluid System
- Dynamics and Control
- Materials
- Manufacturing Engineering

List of Core Courses

Course Code	Course Title	Cr. Hrs.
ME 535	Advanced CAD/CAM	3-0
ME 537	Finite Element Analysis	3-0
ME 539	Computer Integrated Manufacturing	3-0
ME 541	Manufacturing Systems	3-0
ME 543	Theory of Elasticity	3-0
ME 545	Experimental Stress Analysis	3-0
ME 547	Product Design and Development	3-0
ME 549	Advanced Mechanical Vibrations	3-0

Course Code	Course Title	Cr. Hrs.
ME 551	Advanced Mechanism Design	3-0
ME 555	Advanced Automatic Control Systems	3-0
ME 557	Robotics	3-0
ME 559	Advanced Thermodynamics	3-0
ME 561	Advanced Fluid Mechanics	3-0
ME 563	Conduction and Radiation	3-0
ME 565	Experimental Methods	3-0
ME 567	Computational Fluid Dynamics	3-0

List of Elective Courses

Mechanical Engineering Design

Course Code	Course Title	Cr. Hrs.
ME 601	Advanced Stress Analysis	3-0
ME 607	Continuum Mechanics	3-0
ME 618	Mechanical Behavior of Materials	3-0
ME 640	Computer Applications in Mechanical Engineering	3-0
ME 657	Advanced Mechanical Design	3-0
ME 672	Computer Aided Design and Analysis	3-0

Dynamics and Control

Course Code	Course Title	Cr. Hrs.
ME 602	Dynamics of Mechanisms	3-0
ME 603	Modal Analysis	3-0
ME 604	Condition Monitoring of Rotating Machinery	3-0
ME 605	Vibration Measurement and Analysis	3-0
ME 609	Modeling and Simulation	3-0

Manufacturing Engineering

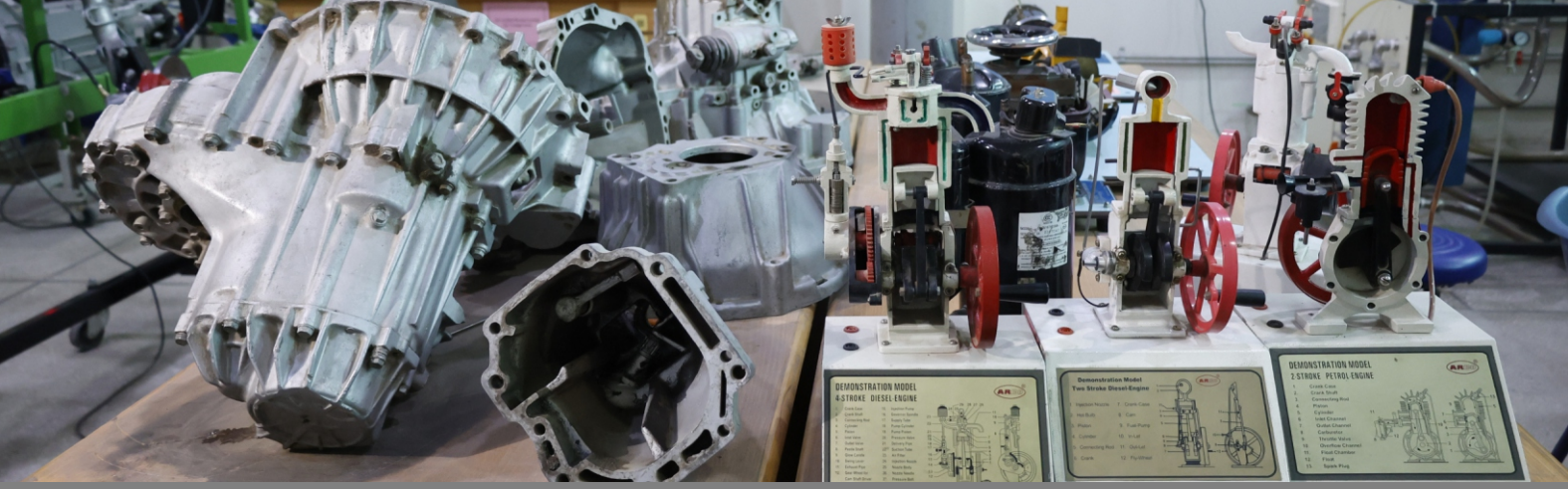
Course Code	Course Title	Cr. Hrs.
ME 627	Design of Machine Tools	3-0
ME 628	Industrial Management	3-0
ME 630	Industrial Automation	3-0
ME 632	Problem Solving and Decision Making	3-0
ME 636	Advanced Project Management	3-0
ME 653	Manufacturing Design and Cost Analysis	3-0
ME 655	Production Management and Control	3-0
ME 654	Quality Assurance	3-0
ME 656	Quality Engineering	3-0

Thermo Fluid System

Course Code	Course Title	Cr. Hrs.
ME 615	Viscous Flow	3-0
ME 623	Internal Combustion Engines	3-0
ME 638	Building Services	3-0
ME 643	Energy Management	3-0
ME 651	Two Phase Flow	3-0
ME 727	Industrial Air Conditioning & Refrigeration	3-0

Materials

Course Code	Course Title	Cr. Hrs.
ME 618	Mechanical Behavior of Materials	3-0
ME 663	Fatigue of Metals and Structures	3-0
ME 667	Mechanics of Composite Materials	3-0
ME 669	Applications and Selection of Materials	3-0
ME 671	Phase Equilibria and Micro Structures	3-0
ME 673	Characterization of Materials	3-0



Master of Science in **Mechanical Engineering Technology**

Recognized by Higher Education Commission (HEC)

Program Code	133
Credit Hours	35-37
Plan A: Number of Courses	11 + Research Thesis
Plan B: Number of Courses	13 + Project
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	6th August, 2011

Eligibility Criteria:

Candidates possessing the relevant bachelor degree, obtained after 16 years of education with 2.00 CGPA on the scale of 4.00 in semester system or at least 50% marks in annual system from recognized institute/University is eligible to apply.

Applicant needs to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of admission.

Program Objectives:

The objectives of the program are to:

- Bring the scholar abreast with the most recent developments in the field of mechanical engineering technology.
- Provide scholars with the essential analytical tools, technical skills, engineering insight and practical problem solving abilities to face the modern technological challenges.
- Inculcate a sense of professionalism in the scholars so that they become cognizant of ethics and social responsibilities.
- Produce graduates possessing effective communication, interpersonal and project management skills and capable of working as team members and leading multi-disciplinary teams.
- Emphasize on upholding professional ethics.

Program Outcomes:

After completion of the MS program in Mechanical Engineering Technology, scholars will be able to:

- Design, fabricate, assemble, erect, operate and maintain complex mechanical engineering systems.
- Avail employment opportunities in the industrial fields related to thermo-fluid systems, mechanical engineering design, engineering materials, manufacturing engineering, engineering management, mechatronics, and dynamics and control systems.
- Make significant contribution to the socio-economic development of the country as highly productive and useful members of the society.
- Work in multi-racial, multi-ethnic, multi-cultural, and multi-religious social set up as peaceful and tolerant individuals.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Core Course-I	3-0
	Core Course-II	3-0
	Elective-I	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.09
	Core Course-III	3-0
	Core Course-IV	3-0
	Elective-II	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.09
	Core Course-V	3-0
	Core Course-VI	3-0
RES 581	Research Methodology	2-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06 / 09
Plan A: MS with Research Work		
RES 690	Research Thesis	0-6
Plan B: MS with Course Work		
	Elective-III	3-0
	Elective-IV	3-0
	Project	0-3

Specializations Offered

- Mechanical Engineering Design
- Thermo Fluid System
- Dynamics and Control
- Materials
- Manufacturing Engineering

List of Core Courses

Course Code	Course Title	Cr. Hrs.
MT 535	Advanced CAD/CAM	3-0
MT 537	Finite Element Analysis	3-0
MT 539	Computer Integrated Manufacturing	3-0
MT 541	Manufacturing Systems	3-0
MT 543	Theory of Elasticity	3-0
MT 545	Experimental Stress Analysis	3-0
MT 547	Product Design and Development	3-0
MT 549	Advanced Mechanical Vibrations	3-0
MT 551	Advanced Mechanism Design	3-0

Course Code	Course Title	Cr. Hrs.
MT 555	Advanced Automatic Control Systems	3-0
MT 557	Robotics	3-0
MT 559	Advanced Thermodynamics	3-0
MT 561	Advanced Fluid Mechanics	3-0
MT 563	Conduction and Radiation	3-0
MT 565	Experimental Methods	3-0
MT 567	Computational Fluid Dynamics	3-0
MT 610	Modeling of Dynamic Systems	3-0

List of Elective Courses

Mechanical Engineering Design

Course Code	Course Title	Cr. Hrs.
MT 601	Advanced Stress Analysis	3-0
MT 607	Continuum Mechanics	3-0
MT 618	Mechanical Behavior of Materials	3-0
MT 640	Computer Applications in Mechanical Engineering	3-0
MT 657	Advanced Mechanical Design	3-0
MT 672	Computer Aided Design and Analysis	3-0

Dynamics and Control

Course Code	Course Title	Cr. Hrs.
MT 602	Dynamics of Mechanisms	3-0
MT 603	Modal Analysis	3-0
MT 604	Condition Monitoring of Rotating Machinery	3-0
MT 605	Vibration Measurement and Analysis	3-0
MT 609	Modeling and Simulation	3-0

Manufacturing Engineering

Course Code	Course Title	Cr. Hrs.
MT 627	Design of Machine Tools	3-0
MT 628	Industrial Management	3-0
MT 630	Industrial Automation	3-0
MT 632	Problem Solving and Decision Making	3-0
MT 636	Advanced Project Management	3-0
MT 653	Manufacturing Design and Cost Analysis	3-0
MT 655	Production Management and Control	3-0
MT 654	Quality Assurance	3-0
MT 656	Quality Engineering	3-0

Thermo Fluid System

Course Code	Course Title	Cr. Hrs.
MT 615	Viscous Flow	3-0
MT 623	Internal Combustion Engines	3-0
MT 638	Building Services	3-0
MT 643	Energy Management	3-0
MT 651	Two Phase Flow	3-0
MT 727	Industrial Air Conditioning & Refrigeration	3-0

Materials

Course Code	Course Title	Cr. Hrs.
ME 618	Mechanical Behavior of Materials	3-0
ME 663	Fatigue of Metals and Structures	3-0
ME 667	Mechanics of Composite Materials	3-0
ME 669	Applications and Selection of Materials	3-0
ME 671	Phase Equilibria and Micro Structures	3-0
ME 673	Characterization of Materials	3-0

Faculty of Life Sciences

Department of Pharmacy
Institute of Nursing Sciences
Sarhad Institute of Allied Health Sciences
Sarhad Institute of Health Sciences

Department of **Pharmacy**

The Department of Pharmacy, Faculty of Life Sciences, Sarhad University acknowledges pharmaceutical care as an evolving mode of pharmacy practice in which the pharmacist in consultation with other health professionals, takes an active role on behalf of patients in making appropriate drug choices, by effecting distribution of medications to patients, and by assuming direct responsibilities to empower patients to achieve the desired outcomes of drugs and related therapy.

Pharm-D program of the Department provides educational preparedness, so as to enable a student to collaborate with other health professionals and to share responsibility for outcomes of drug and related therapy. Pharm-D program promotes the knowledge, skills, abilities, attitudes and values necessary for the provision of pharmaceutical care for general practice of pharmacy in any setting. The Department of Pharmacy also assures an understanding of pharmaceutical care by its students early in the professional program in pharmacy. The philosophy of practice as well as the necessary professional attitudes, ethics, and behaviors are evolved during the course of study. Moreover, Pharm-D program ensures the provision of a positive outlook for all aspects of pharmacy practice. In long and short, the Pharm-D program is based upon scope, depth and proficiency of knowledge, skills, and judgment acquired. The curriculum of Pharm-D adopted by our Department is in-line with the curriculum proposed by Pharmacy Council of Pakistan and approved by HEC, which provides the students with enhanced core of professional knowledge and skills through enrichment of the Biomedical Sciences, Pharmaceutical Sciences, Physical Sciences, and Clinical Sciences through practice and experience. The curriculum prepares students to be practitioners with maturity in clinical, hospital, community, and industrial practice of pharmacy.

Vision

To become a globally recognized center of excellence in research driven pharmacy education, empowering graduates to lead innovations and improve health care outcomes at national and international level.

Mission

To prepare pharmacy graduates with advanced scientific knowledge, technical proficiency and ethical awareness to excel in pharmaceutical design, manufacturing and clinical applications, while, fostering research and innovations to address contemporary health care challenges.

Programs Offered:

- Master of Science in **Pharmaceutics**
- Master of Science in **Pharmacy Practice**
- Master of Science in **Pharmacology**
- Doctor of Philosophy in **Pharmaceutics**
- Doctor of Philosophy in **Pharmacy Practice**
- Doctor of Philosophy in **Pharmacology**

Faculty Members, Department of **Pharmacy**

Meritorious Prof. Dr. Zafar Iqbal
Dean, Faculty of Life Sciences
Ph.D (Pharmaceutical Sciences),
University of Strathclyde Glasgow, UK

Dr. Muhammad Asif Khan
Professor,
Ph.D Pharmacy,
University of Peshawar

Dr. Muhammad Kifayatullah (on leave)
Associate Professor,
Ph.D Pharmacy,
Lincoln University College, Malaysia

Dr. Naila Shahbaz
Associate Professor / Coordinator
Ph.D Pharmacy,
University of Peshawar

Dr. Faiqa Falak Naz
Assistant Professor,
Ph.D Pharmaceutics,
Gomal University, DI Khan

Dr. Nisar Zamin Shah
Assistant Professor,
Ph.D Pharmacy,
University of Malakand

Mr. Salman Aman
Assistant Professor,
MS Pharmacy (Pharmaceutics),
Sarhad University, Peshawar

Prof. Dr. Sudhair Abbas
Head of Department
Ph.D Pharmacy,
University of Peshawar

Dr. Fazli Amin
Professor,
Ph.D Pharmacy,
University of Malakand

Dr. Ashfaq Ahmad
Associate Professor,
Ph.D Pharmacy,
University of Malakand

Dr. Peer Abdul Hannan
Assistant Professor,
Ph.D Pharmacy,
University of Peshawar

Dr. Saifullah Khan Khalil
Assistant Professor,
Ph.D Pharmacy,
University of Peshawar

Dr. Saif Ullah Khan
Assistant Professor,
Ph.D (Islamic Studies),
Qurtaba University, Peshawar

Mr. Said Muhammad
Assistant Professor,
M.Phil Pharmaceutics,
Islamia University of Bahawalpur

Dr. S.M. Hassan Shah
Professor,
Ph.D Pharmacy,
University of Malakand

Dr. Tariq Abbas
Professor
Ph.D Mathematics,
Islamia College University, Peshawar

Dr. Naila Raziq
Associate Professor,
Ph.D Pharmacy,
University of Peshawar

Dr. Rahim Ullah
Assistant Professor,
Ph.D Pharmaceutical Sciences,
University of Peshawar

Dr. Muhammad Abdullah Shah
Assistant Professor
Ph.D Chemistry (Organic),
Bacha Khan University, Charsadda

Mr. Najam Afaq Qureshi
Assistant Professor
M.Phil Pharmacy,
Gomal University D.I. Khan

Ms. Mahwish
Assistant Professor,
M.Phil Pharmacy,
University of Malakand

Mr. Nasir Ali
Assistant Professor,
MS Biomedical Sciences,
University of East London, UK

Mr. Tahir Ullah Khan
Lecturer,
M.Phil Pharmaceutical Sciences,
KUST, Kohat

Mr. Muhammad Kamran Labib
Lecturer
M.Phil Pharmacognosy,
Quaid-e-Azam University, Isb

Ms. Kiran Firdous
Lecturer,
M.Phil Pharmacology,
KMU Peshawar

Ms. Roheena Zafar
Lecturer,
MS Pharmacy (Pharmaceutics),
Sarhad University, Peshawar

Ms. Natasha Rahim
Lecturer,
M.Phil Pharmacy,
University of Peshawar

Mr. Abdur Raziq
Lecturer,
M.Phil Pharmaceutical Sciences,
AWKUM

Mr. Wahid Zada
Lecturer,
MS Pharmacology,
COMSATS University, Abbottabad

Mr. Altaf Ur Rehman
Lecturer,
M.Phill Pharmacy,
University of Peshawar

Mr. Muhammad Yamnain
Lecturer,
M.Phil Pharmacy,
KUST, Kohat

Master of Science in **Pharmaceutics**

Recognized by Higher Education Commission (HEC).

Program Code	269
Credit Hours	38
Plan A: Number of Courses	12 + Research Thesis
Plan B: Number of Courses	13 + Project
Plan C: Number of Courses	14
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	11 September, 2024

Eligibility Criteria:

Candidates having degrees in (B.Pharm (4 years) /Pharm-D) with 2.00 CGPA on the scale of 4.00 in semester system or at least 50% marks in annual system from any recognized institute/university are eligible to apply.

Applicants need to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of Admission.

Program Objectives:

Sarhad University of Science and Information Technology, Peshawar is committed to preparing graduates with the capacity, up-to-date knowledge, strong ethical values, behavior, communication, writing, and social skills necessary to excel in diverse career paths within the pharmacy field. MS in Pharmaceutics is designed with the following objectives, in line with the standards set by the Higher Education Commission (HEC) and Pharmacy Council of Pakistan:

- To prepare graduates for roles in pharmaceutical care within health systems and community environments, emphasizing the importance of appropriate medication usage, patient safety, and the delivery of high-quality healthcare services.
- To equip graduates with the knowledge and skills necessary to excel in the pharmaceutical industry, with a focus on understanding quality systems, regulatory requirements, and best practices in drug manufacturing, quality control, and distribution.
- To instill strong ethical values and professional behavior in graduates, emphasizing integrity, empathy, and respect for patient autonomy and confidentiality. Graduates will demonstrate ethical decision-making and adhere to professional standards in all aspects of pharmacy practice.
- To cultivate social skills and promote interdisciplinary collaboration among graduates, enabling them to work effectively as part of healthcare teams and engage with diverse populations.

Program Outcomes:

The Master of Science in Pharmaceutics degree program trains students interested in discovery-based research, who are motivated to disseminate new knowledge in the biomedical sciences. The following program learning outcomes (PLOs) describe how students in our program demonstrate the knowledge, skills, and attitudes critical to discipline mastery. Graduates of the Master of Science in Pharmaceutics degree program will be able to:

- Knowledge: Apply foundational concepts related to pharmaceutical sciences (pharmacology, medicinal chemistry, physiology, pathophysiology, pharmacokinetics, and pharmaceutics) to complex scientific scenarios.
- Skills: Perform multiple research techniques that provide the foundation for discovery-focused lines of inquiry.
- Research Design: Design a research project that includes the collection, organization, and analysis of data in order to address a research hypothesis; this includes an adherence to scientific ethics, where honesty and integrity permeate all stages of scientific practice.
- Communication: Effectively communicate scientific concepts to an audience as an author, presenter, and peer reviewer.
- Professional Development: Cultivate a professional identity that facilitates integration into the broader scientific community.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.13
	Core Course-I	3-0
	Core Course-II	3-0
	Core Course-III	3-0
	Elective-I	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.12
	Core Course-IV	3-0
	Core Course-V	3-0
	Elective-II	3-0
	Elective-III	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.07
	Core Course-VI	3-0
	Elective-IV	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06
Plan A: Research work		
	Research Thesis	0-6
Plan B: Project work		
	Core Course-VII	3-0
	Project	0-3
Plan C: Course work		
	Core Course-VII	3-0
	Core Course-VIII	3-0

List of Electives Courses

Course Code	Course Title	Cr. Hrs.
PHC 802	Molecular Spectroscopy	3-0
PHC 803	Advanced Analytical Techniques	3-0
PCG 801	Autocoids Pharmacology	3-0
PCG 803	Drug discovery and evaluation	3-0
PCN 802	Structure Elucidation of Natural Products	3-0
PCN 803	Biosynthesis of Natural Products.	3-0
PHC 804	Advanced Mass Spectrometry and Drug Analysis	3-0

List of Electives Courses

Course Code	Course Title	Cr. Hrs.
PHC 805	Principles of Drug Action	3-0
PHC 806	Advanced Clinical Biochemistry	3-0
PHC 807	Molecular Biomarkers	3-0
PHC 808	Chromatographic Techniques in HPLC, UPLC & GC	3-0
PHC 809	Drug Transporters	3-0
PHC 811	Advanced Medicinal Chemistry-I	3-0
PHC 812	Advanced Medicinal Chemistry-II	3-0
PHP 801	Liquid phase extraction Techniques for Drug Analysis	3-0
PHP 802	Solid phase extraction techniques for Drug Analysis	3-0
PHC 821	Biostatic	3-0
PCG 811	Pharmacogenomics	3-0
RES 800	Research Methods in Pharmacy	3-0

List of Core Courses

Course Code	Course Title	Cr. Hrs.
PCU 802	Solubility and Model laws consideration in the preparation of liquid dosage form	3-0
PCU 803	Pre-Clinical Formulation	3-0
PCU 804	Formulation and Preparation of Biopharmaceuticals	3-0
PCU 805	Nano Pharmaceuticals	3-0
PCU 806	Radiopharmaceuticals	3-0
PCU 807	Stability Consideration of solid Dosage form	3-0
PCU 808	Solid dosage form design	3-0
PCU 809	Neuro Pharmaceuticals	3-0
PCU 810	Advanced Drug Delivery	3-0
PCU 811	Polymeric Drug Delivery	3-0
PCU 812	Quality Control of Sterile products	3-0
PCU 813	Controlled Drug Delivery Systems of parenteral and their classification	3-0
PCU 814	New and Novel Drug Delivery Systems	3-0
PCU 815	Transdermal Drug Delivery Systems	3-0
PCU 816	Formulation of low Solubility Drugs	3-0
PCU 817	Pharmacokinetics of drug	3-0
PCU 818	Hydrogels; Biological Properties and Applications	3-0
PCU 901	Liquid Chromatography and Liquid Chromatography-Mass spectrometry of Small Molecules	3-0
PCU 902	Pharmacokinetics and Bioavailability of Drugs from Oral Dosage Form	3-0

Master of Science in **Pharmacy Practice**

Recognized by Higher Education Commission (HEC).

Program Code	271
Credit Hours	38
Plan A: Number of Courses	12 + Research Thesis
Plan B: Number of Courses	13 + Project
Plan C: Number of Courses	14
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	11 September, 2024

Eligibility Criteria:

Candidates having degrees in (B.Pharm (4 years) /Pharm-D) with 2.00 CGPA on the scale of 4.00 in semester system or at least 50% marks in annual system from any recognized institute/university are eligible to apply.

Applicants need to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of Admission.

Program Objectives:

- Clinical pharmacy is a health science discipline in which pharmacists provide patient care that optimizes medication therapy and promotes health, and disease prevention.
- The practice of clinical pharmacy embraces the philosophy of pharmaceutical care, blending a caring orientation with specialized therapeutic knowledge, experience, and judgment to ensure optimal patient outcomes.
- As a discipline, clinical pharmacy also has an obligation to contribute to the generation of new knowledge that advances health and quality of life.

Program Outcomes:

- To choose and justify appropriate drug therapy concerning medication, dosage, dosing interval, dosage form and duration of treatment adapted to the given patient and other drug treatment.
- To propose treatment goals and actions and motivate the latter on the basis of recommendations and evidence summaries and patient-related factors.
- To Develop RDT & care plans for the pathological condition concerning Cardiovascular Pulmonary and Gastric Diseases.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.13
	Core Course-I	3-0
	Core Course-II	3-0
	Core Course-III	3-0
	Elective-I	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.12
	Core Course-IV	3-0
	Core Course-V	3-0
	Elective-II	3-0
	Elective-III	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.07
	Core Course-VI	3-0
	Elective-IV	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06
Plan A: Research work		
	Research Thesis	0-6
Plan B: Project work		
	Core Course-VII	3-0
	Project	0-3
Plan C: Course work		
	Core Course-VII	3-0
	Core Course-VIII	3-0

List of Core Courses

Course Code	Course Title	Cr. Hrs.
PHP 801	Liquid -Liquid Extraction Techniques for Drug Analysis	3-0
PHP 802	Solid phase Extraction Techniques for Drug Analysis	3-0
PHP 803	Cytochrome P450 Mediated Pharmacokinetic Drug- Drug Interaction –I	3-0
PHP 804	Cytochrome P450 Mediated Pharmacokinetic Drug- Drug Interaction – II	3-0
PHP 805	Pharmacoepidemiology	3-0
PHP 806	Drug profile assessment plan	3-0
PHP 807	Drug safety and pharmacovigilance	3-0
PHP 808	Clinical Pharmacokinetics	3-0
PHP 809	Pharmacotherapy of infectious diseases	3-0
PHP 810	Pharmacotherapy of Pain	3-0
PHP 811	Toxicology	3-0
PHP 812	Principles of drug action	3-0
PHP 813	Clinical Trials	3-0

List of Elective Courses

Course Code	Course Title	Cr. Hrs.
PCU 902	Pharmacokinetics and Bioavailability of Drugs from Oral Dosage Form	3-0
PCU 806	Radiopharmaceuticals	3-0
PCG 809	Experimental Pharmacology	3-0
PCG 810	Molecular Pharmacology	3-0
PHC 821	Biostatics	3-0
RES 800	Research methods in pharmacy	3-0
PCG 811	Pharmacogenomics	3-0
PCG 813	Pharmacotherapy of infectious diseases	3-0
PCG 814	Pharmacotherapy of Pain	3-0
PCG 815	Toxicology	3-0
PCG 816	Principles of drug action	3-0
PCG 802	Cancer chemotherapy	3-0
PHC 810	Method development and validation of HPLC Assay	3-0
PCU 817	Pharmacokinetics of drugs	3-0
PCG 807	Drug acting on renal system	3-0
PHC 807	Molecular Biomarkers	3-0

Master of Science in **Pharmacology**

Recognized by Higher Education Commission (HEC).

Program Code	270
Credit Hours	38
Plan A: Number of Courses	11 + Research Thesis
Plan B: Number of Courses	12 + Project
Plan C: Number of Courses	14
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	11 September, 2024

Eligibility Criteria:

Candidates having degrees in (B.Pharm (4 years) /Pharm-D) with 2.00 CGPA on the scale of 4.00 in semester system or at least 50% marks in annual system from any recognized institute/university are eligible to apply.

Applicants need to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of Admission.

Program Objectives:

- Apply the knowledge of mechanisms of action of drugs and toxicants to discuss the clinical profile of pharmacological agents.
- Discuss the mechanisms of action of selected drugs/toxicants at the molecular, cellular, organ system, and whole-body level.
- Discuss the toxicity of drugs based on the physiology and the pathophysiology of the disease.
- Assess and evaluate therapeutic and/or toxic outcomes based on the knowledge of drugs/toxicants accessibility to target sites.
- Apply the knowledge of pharmacokinetic and pharmacodynamic processes and principles to discuss therapeutic and toxic outcomes of pharmacological agents.
- Apply the pharmacokinetic processes to discuss the absorption, distribution, metabolism, and excretion of drugs/toxicants.
- Apply the pharmacodynamic principles to discuss a drug's affinity, potency, and efficacy and evaluate the impact of pharmacokinetic processes on the action of drugs/toxicants and their clinical/toxic outcomes.

Program Outcomes:

- Develop the skills needed to perform analytical and experimental techniques, and research methodology.
- Develop an experimental technique based on one's own research area;
- Design experiments using pharmacological and toxicological tools to investigate specific research area.
- Develop and validate research methodologies to investigate specific research questions.
- Identify research opportunities, develop hypotheses and design research projects, and execute independent research.
- Demonstrate the ability to carry out experiments in a laboratory.
- Demonstrate the ability to design experimental protocols; Statistically analyze and generate graphics of the data and interpret experimental findings and demonstrate the ability to conduct a literature search for a specific area of investigation.
- Identify areas of unsolved investigation; develop hypotheses and research questions.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.13
	Core Course-I	3-0
	Core Course-II	3-0
	Core Course-III	3-0
	Elective-I	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.12
	Core Course-IV	3-0
	Core Course-V	3-0
	Elective-II	3-0
	Elective-III	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.07
	Core Course-VI	3-0
	Elective-IV	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06
Plan A: Research work		
	Research Thesis	0-6
Plan B: Project work		
	Core Course-VII	3-0
	Project	0-3
Plan C: Course work		
	Core Course-VII	3-0
	Core Course-VIII	3-0

List of Core Courses

Course Code	Course Title	Cr. Hrs.
PCG 801	Autocoids Pharmacology	3-0
PCG 802	Cancer chemotherapy	3-0
PCG 803	Drug discovery and evaluation	3-0
PCG 804	Drugs acting on cardiovascular system	3-0
PCG 805	Drugs acting on Gastrointestinal Tract	3-0
PCG 806	Drugs acting on Nervous system	3-0
PCG 807	Drugs acting on Renal system	3-0
PCG 808	Drugs acting on Endocrine system	3-0
PCG 809	Experimental Pharmacology	3-0
PCG 810	Molecular Pharmacology	3-0
PCG 811	Pharmacogenomics	3-0
PCG 812	Pharmacological Assays	3-0

List of Electives Courses

Course Code	Course Title	Cr. Hrs.
PCU 802	Solubility and Model laws consideration in the preparation of liquid dosage form	3-0
PCU 803	Pre-Clinical Formulation	3-0
PHC 804	Principles of Drug Action	3-0
PHC 806	Molecular Biomarkers	3-0
PHP 803	Cytochrome P450 Mediated Pharmacokinetic Drug- Drug Interaction – I	3-0
PHP 804	Cytochrome P450 Mediated Pharmacokinetic Drug- Drug Interaction – II	3-0
PCN 803	Biosynthesis of Natural Products	3-0
PCN 804	Plant Toxicology	3-0
PCN 812	Advances in Herbal drugs	3-0
PCN 816	Biotechnology of medicinal plants	3-0
PHP 805	Pharmacoepidemiology	3-0
PHP 806	Drug profile assessment plan	3-0
PHC 801	Chromatographic techniques in HPLC, UPLC and GC	3-0
PHC 809	Drug Transporters	3-0
PHC 810	Method development and validation of HPLC Assay	3-0
PCU 902	Pharmacokinetic and bioavailability of drug from oral dosage form	3-0
PHC 821	Biostatics	3-0
RES 800	Research methods in pharmacy	3-0
PHP 810	Pharmacotherapy of Pain	3-0
PCU 817	Pharmacokinetics of drugs	3-0
PHC 807	Molecular Biomarkers	3-0

Doctor of Philosophy in **Pharmaceutics**

Recognized by Higher Education Commission (HEC).

Program Code	261
Credit Hours	56
Number of Courses	8 + Dissertation
Minimum Duration	6 Semesters, 3 Years
Maximum Duration	16 Semesters, 8 Years
Minimum CGPA Required To Earn Degree	3.00
HEC NOC Issuance Date	19 August, 2024

Eligibility Criteria:

Candidates having 18 years of education in relevant field with 3.00 CGPA on the scale of 4.0 in semester system or at least 60% marks in annual system from any recognized Degree Awarding Institute/university are eligible to apply.

Candidates needs to pass GRE/ HAT/ SU-GAT (General) conducted by any Registered Testing Agency or University with at least 60% cumulative score and qualify interview to be conducted by the concerned department.

Candidates who have done MS without Research Thesis may be considered for admission in the PhD program provided they have one published paper in an HEC recognized journal as a Principal Author.

Program Objectives:

- To establish the efficacy, safety and effectiveness of medications in humans, by developing novel dosage forms of old and new lead compounds for the enhancement of bioavailability and efficacy.
- To disseminate knowledge to pharmacist and students through quality teaching, with a purpose to impart relevant information to the students in a manner that allows them to develop their analytical and intellectual capabilities.
- To contribute to the development of our country through our expertise and participate in community organizations or activities related to Pharmaceutics and drugs in general.
- To develop a state-of-the-art Pharmaceutics research laboratory for more productive research, relate to drug delivery, efficacy, and cost.
- By performing all these activities, the department will impact strongly on local industry, the nation's drug policies/regulations and patient's quality of life.

Program Outcomes:

- At the end of program, students will be prepared for their future success in life along with a rigorous scientific attitude so that they can serve the Pharmacy and other Health-related professions in the best possible way, thereby improving the quality of life.
- The students will be able to acquire up to date knowledge in the field of pharmaceutics by conducting and promoting innovative research.
- Student will be able to understand the elements of preformulation studies and Generic drug. They will also gain the knowledge about the product development, industrial management and packaging of dosage forms.
- Student will be able to understand the advances in novel drug delivery. It would also help them to know what are the selection criteria for drugs and polymers in development of NTDS systems.
- The students will be capable of new knowledge and mechanistic approach to the effects of chemical and entities and innovative formulations as applied to human health, while displaying leadership and professionalism.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Core Course-I	3-0
	Core Course-II	3-0
	Elective Course-I	3-0
QT 701	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.10
	Core Course-III	3-0
	Core Course-IV	3-0
	Elective Course-II	3-0
QT 801	Fehm-e-Quran - II	0-1

Semester Three and Onwards:

Course Code	Course Title	Cr. Hrs.09
RES 900	Dissertation	0-9

List of Core Courses

Course Code	Course Title	Cr. Hrs.
PCU 802	Solubility and Model laws consideration in the preparation of liquid dosage form	3-0
PCU 803	Pre-Clinical Formulation	3-0
PCU 804	Formulation & Preparation of Biopharmaceuticals	3-0
PCU 805	Nano Pharmaceuticals	3-0
PCU 806	Radiopharmaceuticals	3-0
PCU 807	Stability Consideration of solid Dosage form	3-0
PCU 808	Solid dosage form design	3-0
PCU 809	Neuro Pharmaceuticals	3-0
PCU 810	Advanced Drug Delivery	3-0
PCU 811	Polymeric Drug Delivery	3-0
PCU 812	Quality Control of Sterile products	3-0
PCU 813	Controlled Drug Delivery Systems of parenteral and their classification	3-0
PCU 814	New and Novel Drug Delivery Systems	3-0
PCU 815	Transderma l Drug Delivery Systems	3-0
PCU 816	Formulation of low Solubility Drugs	3-0
PCU 817	Pharmacokinetics of drug	3-0
PCU 818	Hydrogels; Biological Properties & Applications	3-0
PCU 901	Liquid Chromatography and Liquid Chromatography - Mass spectrometry of Small Molecules	3-0
PCU 902	Pharmacokinetics and Bioavailability of Drugs from Oral Dosage Form	3-0

List of Electives Courses

Course Code	Course Title	Cr. Hrs.
PHC 802	Molecular Spectroscopy	3-0
PHC 803	Advanced Analytical Techniques	3-0
PCG 801	Autocoids Pharmacology	3-0
PCG 803	Drug discovery and evaluation	3-0
PCN 802	Structure Elucidation of Natural Products	3-0
PCN 803	Biosynthesis of Natural Products.	3-0
PHC 804	Advanced Mass Spectrometry and Drug Analysis	3-0
PHC 805	Principles of Drug Action	3-0
PHC 806	Advanced Clinical Biochemistry	3-0
PHC 807	Molecular Biomarkers	3-0
PHC 808	Chromatographic Techniques in HPLC, UPLC and GC	3-0
PHC 809	Drug Transporters	3-0
PHC 811	Advanced Medicinal Chemistry-I	3-0
PHC 812	Advanced Medicinal Chemistry-II	3-0
PHP 801	Liquid phase extraction Techniques for drug analysis	3-0
PHP 802	Solid phase extraction techniques for drug analysis	3-0
PHC 821	Biostatic	3-0
PCG 811	Pharmacogenomics	3-0
RES 800	Research Methods in Pharmacy	3-0

Note for Scholars:

- Course will be selected from the given list of approved courses in consultation with the Research Advisor.
- The Research Advisor may direct the scholar to register for additional courses related to the area of research.
- Scholar needs to be registered in dissertation of Nine (09) credit hours for each semester for minimum of four (04) semesters.
- Scholar will submit his/her research proposal for approval from BOASAR.
- The scholar shall be required to publish a research paper in an HEC recognized journal before the public defense of the PhD dissertation.
- University Rules and Regulations for Post Graduate Degrees will be applicable.
- *HEC quality criteria will be applicable.

Doctor of Philosophy in **Pharmacy Practice**

Recognized by Higher Education Commission (HEC).

Program Code	260
Credit Hours	58
Number of Courses	8 + Dissertation
Minimum Duration	6 Semesters, 3 Years
Maximum Duration	16 Semesters, 8 Years
Minimum CGPA Required To Earn Degree	3.00
HEC NOC Issuance Date	16 August, 2024

Eligibility Criteria:

Candidates having 18 years of education in relevant field with 3.00 CGPA on the scale of 4.0 in semester system or at least 60% marks in annual system from any recognized Degree Awarding Institute/university are eligible to apply.

Applicants must pass GAT (General) to be conducted by any Registered Testing Agency or University with at least 60% cumulative score. He/she has to clear departmental interview at the time of Admission.

Candidates holding MS degree without research thesis may be considered for admission in the PhD program provided they have one published paper in an HEC recognized journal as a principal author.

Program Objectives:

- Use innovative, student-centered teaching to develop clinical reasoning.
- Produce clinicians with a global outlook who are qualified, culturally competent and dedicated to community service.
- Provide care for patients with interprofessional practice.
- Recruit and retain highly qualified faculty who inspire lifelong learning, leadership and scholarly activity.
- Provide a value addition and current requirement for the students in clinical research and pharmacovigilance.
- Teach the students on conceptualizing, designing, conducting, managing and reporting of clinical trials.
- Produce students and researchers who embrace professionalism.
- Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.
- Provide knowledge and skills necessary for dose calculations, dose adjustments and to apply.

Program Outcomes:

Upon completion of this program the Scholar will have following abilities:

- **Pharmacy Knowledge:** Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; and manufacturing practices.
- **Planning Abilities:** Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines.
- **Problem Analysis:** Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.
- **Modern Tool Usage:** Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.
- **Leadership Skills:** Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and well- being.
- **Professional Identity:** Understand, analyze and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).
- **Pharmaceutical Ethics:** Honor personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.
- **Communication:** Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.
- **Environment and Sustainability:** Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **Life-Long Learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Core Course-I	3-0
	Core Course-II	3-0
	Elective Course-I	3-0
QT 701	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.10
	Core Course-III	3-0
	Core Course-IV	3-0
	Elective Course-II	3-0
QT 801	Fehm-e-Quran - II	0-1

Semester Three and Onwards:

Course Code	Course Title	Cr. Hrs.09
RES 900	Dissertation	0-9

List of Electives Courses

Course Code	Course Title	Cr. Hrs.
PCU 902	Pharmacokinetics and Bioavailability of Drugs from Oral Dosage Form	3-0
PCU 806	Radiopharmaceuticals	3-0
PCG 809	Experimental Pharmacology	3-0
PCG 810	Molecular Pharmacology	3-0
PHC 821	Biostatics	3-0
RES 800	Research methods in pharmacy	3-0
PCG 811	Pharmacogenomics	3-0
PCG 813	Pharmacotherapy of infectious diseases	3-0
PCG 814	Pharmacotherapy of Pain	3-0
PCG 815	Toxicology	3-0
PCG 816	Principles of drug action	3-0
PCG 802	Cancer chemotherapy	3-0
PHC 810	Method development and validation of HPLC Assay	3-0
PCU 817	Pharmacokinetics of drugs	3-0
PCG 807	Drug acting on renal system	3-0
PHC 807	Molecular Biomarkers	3-0

List of Core Courses

Course Code	Course Title	Cr. Hrs.
PHP 801	Liquid -Liquid Extraction Techniques for Drug Analysis	3-0
PHP 802	Solid phase Extraction Techniques for Drug Analysis	3-0
PHP 803	Cytochrome P450 Mediated Pharmacokinetic Drug- Drug Interaction –I	3-0
PHP 804	Cytochrome P450 Mediated Pharmacokinetic Drug- Drug Interaction – II	3-0
PHP 805	Pharmacoepidemiology	3-0
PHP 806	Drug profile assessment plan	3-0
PHP 807	Drug safety and pharmacovigilance	3-0
PHP 808	Clinical Pharmacokinetics	3-0
PHP 809	Pharmacotherapy of infectious diseases	3-0
PHP 810	Pharmacotherapy of Pain	3-0
PHP 811	Toxicology	3-0
PHP 812	Principles of drug action	3-0
PHP 813	Clinical Trials	3-0

Note for Scholars:

- Course will be selected from the given list of approved courses in consultation with the Research Advisor.
- The Research Advisor may direct the scholar to register for additional courses related to the area of research.
- Scholar needs to be registered in dissertation of Nine (09) credit hours for each semester for minimum of four (04) semesters.
- Scholar will submit his/her research proposal for approval from BOASAR.
- The scholar shall be required to publish a research paper in an HEC recognized journal before the public defense of the PhD dissertation.
- University Rules and Regulations for Post Graduate Degrees will be applicable.
- *HEC quality criteria will be applicable.

Doctor of Philosophy in **Pharmacology**

Recognized by Higher Education Commission (HEC).

Program Code	272
Credit Hours	58
Number of Courses	8 + Dissertation
Minimum Duration	6 Semesters, 3 Years
Maximum Duration	16 Semesters, 8 Years
Minimum CGPA Required To Earn Degree	3.00
HEC NOC Issuance Date	11th September, 2024

Eligibility Criteria:

Candidates having 18 years of education in relevant field with 3.00 CGPA on the scale of 4.0 in semester system or at least 60% marks in annual system from any recognized Degree Awarding Institute/university are eligible to apply.

Applicants must pass GAT (General) to be conducted by any Registered Testing Agency or University with at least 60% cumulative score. He/she has to clear departmental interview at the time of Admission.

Candidates holding MS degree without research thesis may be considered for admission in the PhD program provided they have one published paper in an HEC recognized journal as a principal author.

Program Objectives:

- To acquire new knowledge in Pharmacology by conducting and promoting innovative research.
- To establish the efficacy, safety and effectiveness of medications in humans, to discover new lead compounds and to understand the mechanisms of action of drugs.
- To disseminate knowledge to pharmacist and students through quality teaching. The purpose of teaching is to impart relevant information to the students in a manner that allows them to develop their analytical and intellectual capabilities, thus instructing them in the methods by which knowledge is acquired, with emphasis on self-reliance and continued self-education.
- To contribute to the development of our country through our expertise and participate in community organizations or activities related to Pharmacology and drugs in general.
- To develop the Department as a center of excellence for safety and efficacy assessment of medicines.
- To establish a state-of-the-art Pharmacology laboratory for more productive research.
- To ensure the Department's activities impact strongly on industry, the nation's drug policies/regulations and quality of life of patients.

Program Outcomes:

- At the end of program students will know the basic knowledge in the field of pharmacology and to impart recent advances in the drugs used for the treatment of various diseases in addition, it will help the students to understand the concepts of drug action and mechanisms involve.
- Students will gain the knowledge on preclinical evaluation of drugs and recent experimental techniques and models used in the drug discovery and development. It also provides basic to understand the maintenance of laboratory animals as per the guidelines, various in-vitro and Invivo preclinical evaluation processes.
- Students will understand the mechanism of drug actions at cellular and molecular level including the adverse effects, contraindications and clinical uses of drugs used in treatment of diseases.
- The student will be able to imparts knowledge on the preclinical safety and toxicological evaluation of drug & new chemical entity. This knowledge will make the student competent in regulatory toxicological evaluation.
- The students will be capable of new knowledge and mechanistic approach to the effects of chemical and entities and innovative formulations as applied to human health, while displaying leadership and professionalism.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Core Course-I	3-0
	Core Course-II	3-0
	Elective Course-I	3-0
QT 701	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.10
	Core Course-III	3-0
	Core Course-IV	3-0
	Elective Course-II	3-0
QT 801	Fehm-e-Quran - II	0-1

Semester Three and Onwards:

Course Code	Course Title	Cr. Hrs.09
RES 900	Dissertation	0-9

List of Core Courses

Course Code	Course Title	Cr. Hrs.
PCG 801	Autocoids Pharmacology	3-0
PCG 802	Cancer chemotherapy	3-0
PCG 803	Drug discovery and evaluation	3-0
PCG 804	Drugs acting on cardiovascular system	3-0
PCG 805	Drugs acting on Gastrointestinal Tract	3-0
PCG 806	Drugs acting on Nervous system	3-0
PCG 807	Drugs acting on Renal system	3-0
PCG 808	Drugs acting on Endocrine system	3-0
PCG 809	Experimental Pharmacology	3-0
PCG 810	Molecular Pharmacology	3-0
PCG 811	Pharmacogenomics	3-0
PCG 812	Pharmacological Assays	3-0

List of Electives Courses

Course Code	Course Title	Cr. Hrs.
PCU 802	Solubility and Model laws consideration in the preparation of liquid dosage form	3-0
PCU 803	Pre-Clinical Formulation	3-0
PHC 804	Principles of Drug Action	3-0

List of Electives Courses

Course Code	Course Title	Cr. Hrs.
PHC 806	Molecular Biomarkers	3-0
PHP 803	Cytochrome P450 Mediated Pharmacokinetic Drug- Drug Interaction – I	3-0
PHP 804	Cytochrome P450 Mediated Pharmacokinetic Drug- Drug Interaction – II	3-0
PCN 803	Biosynthesis of Natural Products	3-0
PCN 804	Plant Toxicology	3-0
PCN 812	Advances in Herbal drugs	3-0
PCN 816	Biotechnology of medicinal plants	3-0
PHP 805	Pharmacoepidemiology	3-0
PHP 806	Drug profile assessment plan	3-0
PHC 801	Chromatographic techniques in HPLC, UPLC and GC	3-0
PHC 809	Drug Transporters	3-0
PHC 810	Method development and validation of HPLC Assay	3-0
PCU 902	Pharmacokinetic and bioavailability of drug from oral dosage form	3-0
PHC 821	Biostatics	3-0
RES 800	Research methods in pharmacy	3-0
PHP 810	Pharmacotherapy of Pain	3-0
PCU 817	Pharmacokinetics of drugs	3-0
PHC 807	Molecular Biomarkers	3-0

Note for Scholars:

- Course will be selected from the given list of approved courses in consultation with the Research Advisor.
- The Research Advisor may direct the scholar to register for additional courses related to the area of research.
- Scholar needs to be registered in dissertation of Nine (09) credit hours for each semester for minimum of four (04) semesters.
- Scholar will submit his/her research proposal for approval from BOASAR.
- The scholar shall be required to publish a research paper in an HEC recognized journal before the public defense of the PhD dissertation.
- University Rules and Regulations for Post Graduate Degrees will be applicable.
- *HEC quality criteria will be applicable.

Institute of **Nursing Sciences**

Vision

Institute of Nursing Sciences, Sarhad University of Science and Information Technology (SUIT) Peshawar will be a leading nursing institute of international standards producing competent and skilled nursing graduates to strengthen the health care system at national and international level.

Mission

The mission of Institute of Nursing Sciences is to promote nursing profession on the basis of advanced learning concepts and to enable the nursing graduates to demonstrate competence in clinical judgment, to provide ethical and effective patient-centered care, to utilize scientific interventions, and to significantly contribute to the present and emerging research and practices in the field of nursing education.

Program Offered:

- Master of Science in **Nursing**

Faculty Members, Institute of **Nursing Sciences**

Ms. Shaheen Ghani
Director / Assistant Professor,
MS Nursing,
KMU, Peshawar

Mr. Irfan Ullah Khattak
Assistant Professor,
MS Epidemiology & Biostatistics,
KMU, Peshawar

Mr. Shafiq Ur Rahman
Assistant Professor,
MS Nursing,
Agha Khan University, Karachi

Dr. Muhammad Shafiq Khalil
Assistant Professor,
Ph.D Education,
Qurtuba University, Peshawar

MS Fareeha Naz
Senior Lecturer
BS Nursing,
Riphah International University, Isb

Mr. Adil Zaman
Junior Lecturer
BS Nursing,
Riphah International University, Isb

Ms. Nasreen Ghani
Professor / Coordinator,
MS Nursing,
Aga Khan University School
of Nursing, Karachi

Mr. Ihsan Ullah
Assistant Professor,
MS Nursing,
KMU, Peshawar

Mr. Khan Zeb
Assistant Professor,
MS Nursing,
Agha Khan University, Karachi

Mr. Imtiaz Ahmad
Senior Lecturer
BS Nursing,
KMU, Peshawar

Mr. Farhan Ali
Lecturer
BS Nursing,
KMU, Peshawar

Mr. Muhammad Waqas
Junior Lecturer
BS Nursing,
Riphah International University, Isb

Mr. Noor Zaman Khan
Assistant Professor ,
MS Nursing,
KMU, Peshawar

Ms. Uzma Akhtar
Assistant Professor,
MS Nursing,
Agha Khan University, Karachi

Mr. Saeed Ahmad
Assistant Professor,
MS Nursing,
Agha Khan University, Karachi

Mr. Hamayun Khan
Senior Lecturer,
BS Nursing,
Bahria University, Islamabad

Ms. Kainat Saddiq
Junior Lecturer
BS Nursing,
KMU, Peshawar

Master of Science in **Nursing**

Recognized by Higher Education Commission (HEC).

Program Code	236
Credit Hours	47
Number of Courses	14 + Research Thesis
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	13th June, 2023

Eligibility Criteria:

The candidate possessing the BSN/Post R.N bachelor degree obtained after 16 years of education with at least 60% marks in annual system or CGPA 2.50 on a scale of 4.00 from a recognized institute/ university with Two (02) years Clinical / Teaching Experience after internship will be eligible for admission in MSN program.

Candidate need to pass GRE/ HAT/ SU-GAT (General) conducted by any registered testing agency or university with at least 50% cumulative score.

Valid registration of all professional qualification with the PNC.

Program Objectives:

On completion of the two year MSN program, the graduates will be able to:

- Apply contemporary knowledge and the best available evidence from different sources in professional decision-making during nursing practice.
- Apply critical and reflective thinking skills, as well as utilizing systematic approach to problem-solving and professional decision- making.
- Apply principles/standards in decision making, critical thinking, & independent judgments to the role of the advance practice nurse.
- Demonstrate the ability to translate relevant research finding for evidence-based practice.
- Contribute to knowledge and practice by identifying research concepts/areas for conducting supervised research.
- Demonstrate leadership qualities and function effectively as nurse educator and manager.
- Articulate, promote, and advocate for nursing professional development, in general and the specialist role, particularly, in clinical, legal/ political, and professional contexts.
- Work collaboratively with other health care professionals to enhance the quality of practice and services.
- Use advanced communication and interpersonal skills in professional work, Communicate clear, consistent, accurate information verbally and in written or electronic forms, in a manner sensitive to the context.
- Demonstrate interest in continued learning for personal and professional advancement.

Program Outcomes:

- Demonstrate mastery of specialized knowledge and skills that will promote functioning in an advanced nursing role.
- Critically analyzes data and produce meaningful evidence using scientific methods for the continual improvement of nursing care across diverse setting.
- Advocates for solutions to problems; considers impact of health policy on diverse populations; integrates ethical principles in complex decision making.
- Assumes complex and advanced leadership roles to manage care, initiate and guide change; advocates for health policy that promotes access, quality healthcare, and patient safety.
- Foster collaborative inter professional relationships with other health professionals to promote delivery of safe, value-driven, and high-qualityhealth care.
- Collaborate, leads, and participates in partnerships that foster open communication, mutual respect, and shared decision-making with individuals, groups, and populations to promote optimal outcomes.
- Demonstrates advanced clinical judgment in accountability in delivering and evaluating evidence –based care to improve patient outcomes.
- Use current emerging technologies & data analytics to enhance nursing practice.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.12
MSN 501	Theoretical Basis of Nursing	3-0
MSN 503	Research Methodology	3-0
MSN 505	Applied Statistics in Healthcare	2-1
MSN 507	Academic Writing	3-0

2nd Semester

Course Code	Course Title	Cr. Hrs.12
MSN 510	Curriculum Design and Administration	3-0
MSN 512	Teaching for the Critical Thinking	3-0
MSN 514	Clinical Education	3-0
	Elective - I	3-0
QT 501	Fehm-e-Quran - I	0-1

3rd Semester

Course Code	Course Title	Cr. Hrs.12
MSN 604	Principles & Methods of Assessment	3-0
MSN 602	Practicum	0-6
RES 691	Thesis Phase - I	0-3

4th Semester

Course Code	Course Title	Cr. Hrs.09
MSN 600	Leadership & Management	3-0
	Elective - II	3-0
RES 692	Thesis Phase - II	0-3
QT 601	Fehm-e-Quran - II	0-1

List of Electives Courses

Course Code	Course Title	Cr. Hrs.
EDU 617	Psychology of Learning	3-0
EDU 621	Quality Assurance in Education	3-0
AI 500	Advance Artificial Intelligent	3-0
CS 648	(AI) Machine Learning	3-0
HR 532	Strategic Human Resource Management	3-0

Sarhad Institute of **Allied Health Sciences**

Vision

To produce qualified Health Professionals to deliver at national and international level.

Mission

Producing qualified Health Professional in their respective disciplines and enable them to serve the ailing humanity by applying modern teaching/ learning strategies to improve the health care system of the country in General and Khyber Pakhtunkhwa in Particular.

Programs Offered:

- Master of Philosophy in **Medical Lab Sciences**
- Master of Science in **Muskuloskeletal Physical Therapy**
- Master of Science in **Neurological Physical Therapy**
- Master of Philosophy in **Microbiology**
- Master of Philosophy in **Biotechnology**
- Doctor of Philosophy in **Microbiology**
- Doctor of Philosophy in **Biotechnology**

Faculty Members, Sarhad Institute of **Allied Health Sciences**

Dr. Fazal Mahmood Khan
Director SIAHS,
MBBS,
KMC, Peshawar

Dr. Shabir Ahmad
Associate Professor,
Ph.D Applied Biology,
Dong-A University, South Korea

Dr. Imran Khan
Assistant Professor,
Ph.D Microbiology)
Quaid-i-Azam University, Islamabad

Dr. Muhammad Saqib Khalil
Assistant Professor / Coordinator,
PhD Biotechnology,
University of Peshawar

Ms. Khudija Ghani
Assistant Professor,
M.Phil Microbiology,
Hazara University, Mansehra

Dr. Rabia Naeem
Assistant Professor,
MS Musculoskeletal Physical Therapy,
KMU , Peshawar

Ms. Shumaila Bakht
Assistant Professor,
MSc Agriculture (Human Nutrition),
Agriculture University, Peshawar

Mr. Wahid Ullah
Senior Lecturer,
M.Phil MLT,
University of Haripur

Dr. Aliman Shah
Deputy Director / Assistant Professor,
MS Musculoskeletal Physical Therapy,
KMU , Peshawar

Dr. Aamir Aziz
Associate Professor,
Ph.D Biotechnology,
University of Peshawar

Dr. Asif Mehmood
Associate Professor,
Ph.D Botany,
AWKUM

Dr. Zainab Liaqat
Assistant Professor,
Ph.D Microbiology,
University of Peshawar

Mr. Bilal Nasir
Assistant Professor,
M.Phil Microbiology,
Hazara University, Mansehra

Dr. Naveed Akhtar
Assistant Professor,
MS Neurological Physical Therapy,
KMU, Peshawar

Mr. Muhammad Maaz
Assistant Professor,
MSc Investigative Ophthalmology & Vision Research,
Glasgow Caledonian University,, UK

Ms. Shumaila Ijaz
Senior Lecturer,
M.Phil Microbiology,
Abasyn University, Peshawar

Dr. Nasir Ali
Associate Professor,
Ph.D Biotechnology,
University of Malakand

Dr. Shahid Mahmood
Associate Professor,
Ph.D (Mathematics),
AWKUM

Dr. Sulha Syed
Assistant Professor,
Ph.D Biotechnology & Genetic Engg.,
Agriculture University Peshawar

Mr. Kamran
Assistant Professor,
M.Phil Microbiology,
Sarhad University, Peshawar

Dr. Inayat Ullah
Assistant Professor
MS Neurological Physical Therapy,
KMU, Peshawar

Mr. Umer Majeed
Assistant Professor,
MPH,
AWKUM

Dr. Huma Khan
Assistant Professor,
DPT,
KMU, Peshawar

Mr. Hamad Ullah
Senior Lecturer,
M.Phil Microbiology,
KMU, Peshawar

Dr. Rab Nawaz
Senior Lecturer,
DPT,
KMU, Peshawar

Mr. Muhammad Imran Khan
Lecturer,
BS MLT,
KMU Peshawar

Ms. Maheen Najeeb
Lecturer,
BS Anesthesia Technology,
KMU, Peshawar

Dr. Farid Ullah Dawar
Lecturer,
BDS,
Gandhara University, Peshawar

Ms. Zarafshan Sajjad
Lecturer,
BS Surgical Technology,
KMU Peshawar

Mr. Mazhar Ud Din
Lecturer,
BS Dental Technology,
KMU, Peshawar

Mr. M. Muzammil Arshad
Lecturer,
M.Phil Chemistry,
Sarhad University Peshawar

Ms. Nabeela Farman
Lecturer
BSc Agriculture (Human Nutrition),
Agriculture University, Pesh.

Mr. Javed Zeb
Senior Lecturer,
M.Phil Statistics,
University of Peshawar

Mr. Shameem Khan
Lecturer,
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KMU, Peshawar

Dr. Mehwish Fazal
Lecturer,
BDS,
Riphah International University, Isb

Ms. Umar Zainab
Lecturer,
BS Radiology,
KMU, Peshawar

Mr. Zarak Khan
Lecturer,
BS Surgical Technology,
KMU, Peshawar

Mr. Musadiq Khan
Lecturer,
BS Cardiology,
KMU, Peshawar

Mr. Akbar Ali
Lecturer,
BS Surgical Technology,
Gandhara University, Peshawar

Ms. Mansha Sajjad
Lecturer,
BS Surgical Technology,
KMU, Peshawar

Dr. Sehrish
Lecturer,
DPT,
Sarhad University, Peshawar

Dr. Saira Afridi
Lecturer,
BDS,
KMU, Peshawar

Mr. Muhammad Humayoon
Lecturer,
BS Health Technology,
KMU, Peshawar

Ms. Sundas
Lecturer,
BS Radiology,
Iqra National University, Peshawar

Ms. Faryal Khan
Lecturer,
BS Vision Sciences,
KMU, Peshawar

Ms. Saliha Salam
Lecturer,
BS Chemistry,
Islamia College University Peshawar

Mr. Zaid Khan
Lecturer,
BS Health Technology,
KMU, Peshawar

Mr. Mobin Wazir
Lecturer,
BS Health Technology,
KMU Peshawar

Mr. Noman Akbar
Lecturer,
BS Health Technology,
KMU, Peshawar

Mr. Muhammad Kamran Khan
Lecturer,
BS Anesthesia Technology,
KMU, Peshawar

Mr. Muhammad Suliman Khan
Lecturer,
BS Emergency Care Technology,
KMU, Peshawar

Ms. Sara Kamal
Lecturer,
BS Radiology Technology,
KMU, Peshawar

Mr. Hassan Khan
Lecturer,
BS Medical Imaging Tech. (Radiology),
Gandhara University, Peshawar

Mr. Fahad Shahbaz
Lecturer,
BS Radiology Technology,
KMU, Peshawar

Mr. Fahad Ali Khan
Lecturer ,
M.Phil (Social, Political, Economic Issue),
University of Peshawar

Mr. Emad Gohar
Lecturer,
BS Anesthesia Technology,
KMU, Peshawar

Syeda Faiza Hussaini
Lecturer,
BS Radiology Technology,
KMU, Peshawar

Ms. Hafsa
Lecturer,
M.Phil, Chemistry, (Biochemistry)
Islamia College University, Peshawar

Mr. Wajahat Rehman
Lecturer,
BS Anesthesia Technology,
Gandhara University, Peshawar

Master of Philosophy in **Medical Lab Sciences**

Recognized by Higher Education Commission (HEC).

Program Code	234
Credit Hours	35
Number of Courses	11 + Research Thesis
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	13th March, 2025

Eligibility Criteria:

1. Candidate having 16 Years of Education with BS MLT Degree.
2. Candidates having BSc MLT and MSc MLT.
3. Candidates having BSc MLT must have MSc in relevant subjects, e.g. (Microbiology, Hematology, Genetics, Molecular Biology, Biochemistry, Biotechnology, Histology and Pathology).
4. Candidate must have a minimum 2.00 CGPA on scale of 4 in semester system, or at least 60% marks in conventional annual system from recognized university or Degree Awarding Institute.
5. Applicants need to pass GRE/ HAT/ SU-GAT (General) test conducted by any registered Testing Agency or University with at least 50% cumulative score.

The candidates will also have to clear institutional interview at the time of admission

Program Objectives:

The M.Phil MLS program will provide students with the most recent developments in the field of medical laboratory sciences, as well as its related academic and applied aspects. The primary goal of this degree program is to educate students in Medical Laboratory Sciences so that they can apply their advanced knowledge and skills in hospitals and academic settings, as well as to prepare them to effectively assist senior health professionals in the delivery of quality health services from the primary to tertiary levels. This program will impart quality technical competency with modern techniques, enabling students to serve the nation with recognized dignified social and professional status in the health care services.

Program Outcomes:

After completion of M.Phil. Program in MLS the graduates will be able to;

- Efficiently and professionally perform their duties in the functioning of medical laboratories.
- Handle, preserve and manipulate their skills for the benefits of mankind.
- Strengthen the theoretical and practical foundation of graduates through state of the art courses and lab work.
- Write, review research papers and communicate with peers in the field of Allied Health Sciences.
- Prove to be a good teacher and researcher.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.13
	Core Course-I	3-0
	Core Course-II	3-0
	Core Course-III	3-0
	Elective-I	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.12
	Core Course-IV	3-0
	Core Course-V	3-0
	Core Course-VI	3-0
	Elective-II	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.04
RES 581	Research Methodology (Compulsory)	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06
RES 690	Research Thesis	0-6

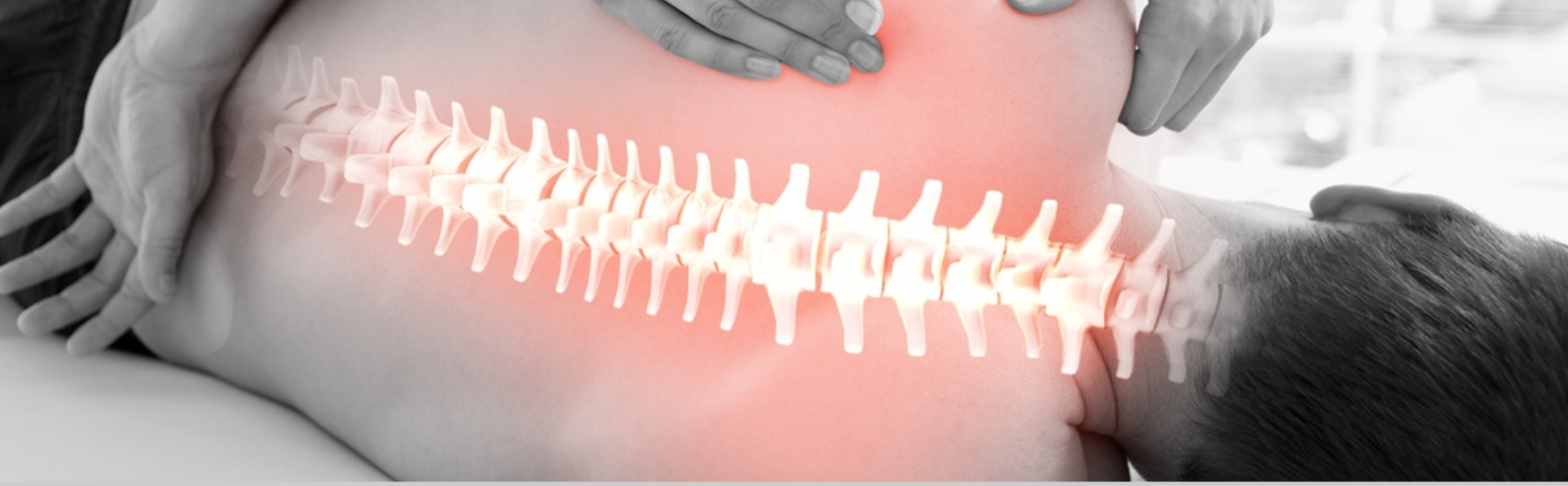
List of Core Courses

Course Code	Course Title	Cr. Hrs.
MLS 501	Epidemiology and Biostatistics	3-0
MLS 503	Molecular Mechanism of Pathogenesis	3-0
MLS 505	Advances in Medical Laboratory Sciences	3-0
MLS 510	Advanced Clinical Bacteriology	3-0
MLS 512	Advance Chemical Pathology	3-0
MLS 514	Hematological Malignancies	3-0

List of Electives Courses

Select any one course in first two semesters

Course Code	Course Title	Cr. Hrs.
MLS 600	Cytotechnology	3-0
MLS 602	Advance In Medical Microbiology	3-0
MLS 604	Medical Genetics and Molecular Biology	3-0
MLS 606	Advance Clinical Parasitology ad Mycology	3-0
MLS 608	Advance Clinical Virology	3-0
MLS 610	Coagulopathy	3-0
MLS 612	Transfusion Medicine	3-0
MLS 614	Biosafety and Biosecurity in Clinical Laboratory	3-0
MLS 616	Bioinformatics	3-0
MLS 618	Molecular Cancer Biology	3-0
MLS 620	Pharmaceutical Microbiology	3-0
MLS 622	Pharmaceutical Bioassay	3-0
MLS 624	Current Trends in Medical Diagnostic Methods	3-0
MLS 626	Vaccinology	3-0
MLS 628	Diagnostic Chemistry for Microbial Diseases	3-0
MLS 630	Management of Infections Waste	3-0
MLS 632	Forensic Science	3-0
MLS 634	Analytical Instrumentation	3-0
MLS 636	Red Blood Cell Pathology	3-0
MLS 638	WBC Disorder	3-0
MLS 640	Clinical Immunology & Serology	3-0



Master of Science in **Musculoskeletal Physical Therapy**

Recognized by Higher Education Commission (HEC).

Program Code	274
Credit Hours	35
Number of Courses	11 + Research Thesis
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	Applied to HEC for NOC

Program Outcomes:

After completion of MS MSKPT program, the graduates will be able to:

- Examine and provide Physical Therapy services to the patients having any kind of musculoskeletal disorder.
- Function as a member of multidisciplinary rehabilitation team in disabled community.
- Design education based and research oriented Physical Therapy practice.
- Use communication skills verbally and in descriptive pattern to interact with patients and community.
- Conduct their activities in a professional and ethical manner.
- Develop lifelong learning and professional growth.
- Describe problem in the Physical Therapy practice and understand their difficulties.
- Design experiments, collect data, analyze and interpret results.

Eligibility Criteria:

- Candidate having 17 Years of Education with Degree of Doctor of Physiotherapy.
- Candidate having BS Physical Therapy with one year Additional-DPT (A-DPT) Degree.
- Candidate must have a minimum 2.00 CGPA on scale of 4 in semester system, or at least 60% marks in conventional annual system from recognized university or Degree Awarding Institute.
- Applicants need to pass GRE/ HAT/ SU-GAT (General) test conducted by any registered Testing Agency or University with at least 50% cumulative score.

The candidates will also have to clear institutional interview at the time of admission

Program Objectives:

- To prepare students to be competent practitioners with expertise in the field of physical therapy.
- To develop clinical decision making skills through consistent supervision and advance physical therapy practice by integrating evidence based practice.
- To foster involvement in the community by providing students the necessary skills needed to become a resource for patients with disorders.
- To offer a range of outcome measures and diagnostic procedures widely used in adult and pediatric conditions in order to make an informed clinical decision.
- To promote participation in clinical and health care research, contributing to the overall body of scientific knowledge.
- To enhance the ability to act as self-regulating professionals who exhibit strong personal, moral, and ethical values in professional practice.
- To produce physical therapists who will serve as role models for students and other health care professionals as expert consultants in the field of physical therapy.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.13
MPT 701	Epidemiology & Biostatistics	3-0
MPT 703	Sports biomechanics	2-1
MPT 705	Musculoskeletal disorders & sports injuries-I	2-1
MPT 707	Advance Physical Therapy Techniques (Musculoskeletal)-I	2-1
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.12
MPT 710	Sports Injuries and Rehabilitation	2-1
MPT 712	Musculoskeletal disorders & sports Injuries-II	2-1
MPT 714	Advance Physical Therapy Techniques (Musculoskeletal)-II	2-1
MPT 716	Clinical Residency	0-3

3rd Semester

Course Code	Course Title	Cr. Hrs.04
RES 730	Research Methodology	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06
RES 790	Research Thesis	0-6

Master of Science in **Neurological Physical Therapy**

Recognized by Higher Education Commission (HEC).

Program Code	273
Credit Hours	35
Number of Courses	11 + Research Thesis
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	Applied to HEC for NOC

Program Objectives:

- To develop expertise in the assessment, diagnosis, and management of neuromuscular disorders using evidence-based physiotherapy interventions.
- To enhance understanding of the neurophysiological, biomechanical, and pathological mechanisms underlying neuromuscular conditions.
- To equip students with the skills to critically analyze scientific literature, conduct research, and contribute to advancements in neuromuscular physiotherapy.
- To foster the ability to work effectively within multidisciplinary teams to optimize patient outcomes and integrate physiotherapy with other healthcare disciplines.
- To prepare graduates for leadership roles in clinical practice, education, and healthcare policy, promoting ethical and professional standards in physiotherapy.
- To emphasize a patient-centered approach, addressing physical, psychological, & social aspects of neuromuscular rehabilitation.

Eligibility Criteria:

- Candidate having 17 Years of Education with Degree of Doctor of Physiotherapy.
- Candidate having BS Physical Therapy with one year Additional-DPT (A-DPT) Degree.
- Candidate must have a minimum 2.00 CGPA on scale of 4 in semester system, or at least 60% marks in conventional annual system from recognized university or Degree Awarding Institute.
- Applicants need to pass GRE/ HAT/ SU-GAT (General) test conducted by any registered Testing Agency or University with at least 50% cumulative score.

The candidates will also have to clear institutional interview at the time of admission

Program Outcomes:

Upon successful completion of the MS in Neuromuscular Physiotherapy program, graduates will be able to:

- Apply in-depth understanding of the pathophysiology, diagnosis, and management of various neuromuscular conditions to improve patient care outcomes.
- Utilize research findings, clinical guidelines, and standardized protocols to design and implement effective physiotherapy interventions for neuromuscular disorders.
- Perform comprehensive patient evaluations using advanced tools such as electromyography (EMG), balance assessment scales, and neuroimaging techniques to accurately assess functional impairments.
- Formulate research questions, conduct independent studies, and disseminate findings through publications and presentations to advance neuromuscular physiotherapy practices.
- Work collaboratively with professionals from neurology, orthopedics, occupational therapy, and related fields to provide comprehensive care to patients with neuromuscular disorders.
- Uphold ethical principles, maintain patient confidentiality, and demonstrate professional conduct in clinical, research, and educational settings.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.13
NPT 701	Epidemiology & Biostatistics	3-0
NPT 703	Fall and Balance Dysfunction	2-1
NPT 705	Stroke Rehabilitation	2-1
NPT 707	Applied Neuroscience	2-1
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.12
NPT 710	Spinal Cord Injury Rehabilitation	2-1
NPT 712	Neurological Disorders	2-1
NPT 714	Pediatric Rehabilitation	2-1
NPT 716	Clinical Residency	0-3

3rd Semester

Course Code	Course Title	Cr. Hrs.04
RES 730	Research Methodology	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06
RES 790	Research Thesis	0-6

Master of Philosophy in **Microbiology**

Recognized by Higher Education Commission (HEC).

Program Code	112
Credit Hours	35
Number of Courses	11 + Research Thesis
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	19th March, 2019

Eligibility Criteria:

Candidates having 16 years of education in relevant field with 2.00 CGPA on the scale of 4.00 in semester system or at least 50% marks in annual system from any recognized institute/university are eligible to apply.

Applicants need to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of admission.

Program Objectives:

- To Provide scholars with a solid foundation in the field of Microbiology.
- To explore the role of microorganisms in human and live stock diseases and the production of value added products and services like biomass, enzymes, chemicals, vaccines, monoclonal antibodies, diagnosis, degradation of organic wastes & bio leaching of minerals from raw ores etc.
- To update the scholars on techniques in different disciplines such as molecular microbiology, microbial bio process technology, medical microbiology and environmental microbiology etc.
- To enhance at national and international level the skills and capabilities of the graduates through participation in seminars, symposia and workshops.

Program Outcomes:

After completion of M.Phil program in Microbiology, scholars will be able to:

- Envisage local and national problems pertaining to Microbiology and design and undertake independent research to find solutions.
- Handle, preserve and manipulate microorganisms for the benefit of mankind.
- Strengthen the theoretical & practical foundation of our graduates through state-of-the-art lab and course work.
- Write and review research and communicate with peers in the field.
- The successful graduates will prove to be good researchers.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.13
	Core Course-I	3-0
	Core Course-II	3-0
	Core Course-III	3-0
	Elective-I	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.12
	Core Course-IV	3-0
	Core Course-V	3-0
	Core Course-VI	3-0
	Elective-II	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.04
RES 581	Research Methodology (Compulsory)	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06
RES 690	Research Thesis	0-6

List of Core Courses

(Select any six courses)

Course Code	Course Title	Cr. Hrs.
MB 501	Advances in Microbiology	3-0
MB 503	Biodegradation and Bioremediation	3-0
MB 507	Advances in Medical Microbiology	3-0
RES 581	Research Methodology	3-0
RES 511	Research Planning & Scientific writing	3-0
MB 514	Microbial Biotechnology	3-0
MB 515	Clinical Virology	3-0
MB 517	Microbial Diversity	3-0
BIO 519	Advances in Molecular Biology	3-0
MB 521	Research Techniques and Instrumentation	3-0
MB 525	Microbial Enzyme Technology	3-0

List of Core Courses

Course Code	Course Title	Cr. Hrs.
MB 610	Antimicrobials and Resistance Issues	3-0
MB 614	Pharmaceutical Microbiology	3-0
MB 618	Microbial Proteins Isolation and Purification	3-0
MB 622	Advances in Immunology	3-0
MB 628	Molecular Mechanisms of Pathogenesis	3-0
MB 630	Pharmaceutical Bioassays	3-0
PH 610	Epidemiology	3-0
BOT 501	Biotechnological Aspect of Allelopathy	3-0
BT 629	Proteomics	3-0

List of Electives Courses

(Select any one course in first two semesters)

Course Code	Course Title	Cr. Hrs.
MA 534	Biostatistics	3-0
MB 527	Clinical Microbiology	3-0
MB 530	Food Microbiology	3-0
MB 538	Fermentation Technology	3-0
MB 605	Microbial Physiology	3-0
MB 612	Industrial Microbiology	3-0
MB 620	Metabolic Engineering	3-0
BIO 637	Molecular Cancer Biology	3-0
MB 640	Vaccinology	3-0
MB 643	Current trends in Microbiology	3-0
MB 644	Molecular Biology of Gene Expression	3-0
MB 645	Epidemiology: An Analytical and Experimental Approaches	3-0
MB 647	Management of Infectious Waste	3-0
MB 649	Mycotic Infection	3-0
MB 651	Diagnostic Chemistry for Microbial Diseases	3-0
MB 653	Environment Microbiology & Public Health	3-0
MB 655	Advances in Soil Microbiology	3-0
MB 657	Veterinary Microbiology	3-0
MB 659	Microbial Human Diseases	3-0
MB 662	Current Trends in Molecular Medicine	3-0
MB 664	Microbial Plant Diseases	3-0
MB 665	E. Coli Genetics	3-0
MB 666	Microbial Biofilm	3-0
MB 667	Extremophiles	3-0

Master of Philosophy in **Biotechnology**

Recognized by Higher Education Commission (HEC).

Program Code	113
Credit Hours	35
Number of Courses	11 + Research Thesis
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	17th August, 2017

Eligibility Criteria:

Candidate having 16 years of education in relevant field with 2.00 CGPA on the scale of 4.00 in semester system or at least 50% marks in annual system from any recognized institute/university is eligible to apply.

Applicant needs to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of admission.

Program Objectives:

- To provide scholars with a solid foundation in the rapidly expanding field of Biotechnology.
- To provide scholars with knowledge, understanding of current theories, concepts and laboratory practices in biotechnology.
- Microbial Enzymes, Biosurfactants, Fermentation Biotechnology, Forensic Biotechnology and Diagnostics etc.
- To spread general awareness regarding utilization of biotechnology in different sectors of society and R&D organization.
- To promote and facilitate applications of biotechnology at gross-root level to strengthen the national economy.
- To enhance at national and international level the skills and capabilities of the graduates through participation in seminars, symposia and workshops.

Program Outcomes:

After completion of M.Phil program in Biotechnology, graduates will be able to:

- Envisage local and national problems pertaining to Biotechnology and design and undertake independent research to find solutions.
- Strengthen the theoretical & practical foundation of our graduates through state of the art lab and course work.
- Handle and manipulate biotechnology for the benefit of mankind.
- Write and review research and communicate with peers in the field.
- To promote and facilitate applications of biotechnology at gross-root level to strengthen the national economy.
- The successful graduates will prove to be good researchers.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.13
	Core Course-I	3-0
	Core Course-II	3-0
	Core Course-III	3-0
	Elective-I	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.12
	Core Course-IV	3-0
	Core Course-V	3-0
	Core Course-VI	3-0
	Elective-II	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.04
RES 581	Research Methodology (Compulsory)	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06
RES 690	Research Thesis	0-6

List of Core Courses

(Select any six courses)

Course Code	Course Title	Cr. Hrs.
BIO 525	Cell and Molecular Biology	3-0
BT 501	Recombinant DNA Technology	3-0
BT 505	Plant Biotechnology	3-0
BT 509	Microbial Biotechnology	3-0
BT 517	Techniques in Biotechnology	3-0
BT 521	Gene Expression and Regulation	3-0
BT 525	Current Trends in Biotechnology	3-0
BT 601	Medical Biotechnology	3-0
BT 604	Food Biotechnology	3-0
BT 607	Forensic Biotechnology	3-0
BT 609	Environmental Biotechnology	3-0
BT 616	Principles of Gene Manipulations	3-0
BT 619	Biosafety and Risk Management	3-0
BT 623	Biological Sequence Analysis and Structural Bioinformatics	3-0
RES 511	Research Planning and Scientific Writing	3-0
RES 555	Research Techniques & Instrumentation	3-0

List of Electives Courses

(Select any one course in first two semesters)

Course Code	Course Title	Cr. Hrs.
MA 534	Biostatistics	3-0
BT 530	Molecular Immunology	3-0
BT 535	General Virology	3-0
BT 540	Bioprocess Technology	3-0
BT 543	Current Trends in Molecular Medicine	3-0
BT 549	Cell Signaling	3-0
BT 627	Genomics	3-0
BT 629	Proteomics	3-0
BT 631	Tissue Engineering	3-0
BT 635	Fundamentals of Biotechnology	3-0
BT 639	Gene Therapy	3-0
BT 640	Dermatogenetics	3-0
BT 641	Microbial Enzyme Technology	3-0
BT 642	Advances in Medical Microbiology	3-0
BT 644	Biodegradation and Bioremediation	3-0
BT 646	Molecular Plant Virology	3-0
BT 650	Molecular Mechanism of Pathogenesis	3-0
BOT 501	Biotechnological Aspect of Allelopathy	3-0
BT 660	Mushroom Culturing as Novel Commercial Crop	3-0
BT 661	Molecular Diagnostics	3-0
BT 662	Biological Nitrogen Fixation	3-0
BT 663	Dairy Technology	3-0
BT 664	Vaccines	3-0
BT 666	Stem Cells and Therapeutic Medicine	3-0
BT 667	Molecular Biology	3-0
BT 669	Biosensors	3-0
BT 671	Hospital Waste Management	3-0
BT 672	Water and Waste Water Treatment	3-0
BT 673	Biochemistry of Nucleic Acid	3-0
BT 674	Epigenetics	3-0
BT 675	Bioinformatics & Protein Structure & Function	3-0
BT 677	Plasmids, Episomes & Insertion Sequences	3-0
BT 678	Biofuels and Biorefineries	3-0

Doctor of Philosophy in **Microbiology**

Recognized by Higher Education Commission (HEC).

Program Code	161
Credit Hours	56
Number of Courses	8 + Dissertation
Minimum Duration	6 Semesters, 3 Years
Maximum Duration	16 Semesters, 8 Years
Minimum CGPA Required To Earn Degree	3.00
HEC NOC Issuance Date	19th October, 2018

Program Objectives:

The curriculum designed for Ph.D in Microbiology offers extensive training that will equip the graduates to meet the challenges with the issues for board spectrum of areas of Microbiology such as health, food, poultry, agricultural, environmental and industrial avenues. These skilled graduates will play a vital role in the uplift of national economic growth of the country. The program will also create awareness about the role of microbiology in improving socio-economic uplift of the country and make liaison between microbiologists with society and industry.

Eligibility Criteria:

Candidate having 18 years of education in relevant field with 3.00 CGPA on the scale of 4.0 in semester system or at least 60% marks in annual system from any recognized institute/university is eligible to apply.

Candidates needs to pass GRE / HAT/ SU-GAT (General) conducted by any Registered Testing Agency or University with at least 60% cumulative score and qualify interview to be conducted by the concerned department.

Candidates who have done MS without Research Thesis may be considered for admission in the PhD program provided they have one published paper in an HEC recognized journal as a Principal Author.

Program Outcomes:

- Graduates after successful completion of PhD will be able to critically analyze problems related to environment, health, agriculture and industry and devise innovative solutions through microbiological interventions.
- The graduates will be able to effectively communicate with scientific community seminars, conferences, workshops, publications in national and international forms.
- This program will produce skilled researchers in the field of microbiology for serving the academia, industry and research organizations at national and international level.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Core Course-I	3-0
	Core Course-II	3-0
	Elective-I	3-0
QT 701	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.10
	Core Course-III	3-0
	Core Course-IV	3-0
	Elective-II	3-0
QT 801	Fehm-e-Quran - II	0-1

Semester Three and Onwards:

Course Code	Course Title	Cr. Hrs.09
RES 900	Dissertation	0-9

Note for Scholars:

- Course will be selected from the given list of approved courses in consultation with the Research Advisor.
- The Research Advisor may direct the scholar to register for additional courses related to the area of research.
- Scholar needs to be registered in dissertation of Nine (09) credit hours for each semester for minimum of four (04) semesters.
- Scholar will submit his/her research proposal for approval from BOASAR.
- The scholar shall be required to publish a research paper in an HEC recognized journal before the public defense of the PhD dissertation.
- University Rules and Regulations for Post Graduate Degrees will be applicable.
- *HEC quality criteria will be applicable.

List of Core Courses

(Select any four courses)

Course Code	Course Title	Cr. Hrs.
MB 700	Fermentation Technology	3-0
MB 703	Virology	3-0
MB 705	Soil and Agriculture Microbiology	3-0
MB 707	Chromosomal Abnormalities and Genetic Counselling	3-0
MB 709	Microbiology and Environmental Hazards	3-0
MB 711	Probiotics	3-0
MB 713	Biodegradation & Bioremediation	3-0
MB 715	Microbes and Nervous System	3-0
MB 717	Plant Virology	3-0
MB 719	Advances in Microscopy and Image Analysis	3-0
BT 715	Algal Biotechnology	3-0
RES 900	Dissertation	0-9

List of Electives Courses

(Select any one course in first two semesters)

Course Code	Course Title	Cr. Hrs.
MA 800	Biostatics	3-0
MB 802	Microbial Diversity	3-0
MB 804	Clinical Microbiology	3-0
MB 805	Food Microbiology	3-0
MB 806	Fermentation Technology	3-0
MB 808	Microbial Physiology	3-0
MB 810	Industrial Microbiology	3-0
MB 812	Metabolic Engineering	3-0
MB 814	Molecular Cancer Biology	3-0
MB 816	Vaccinology	3-0
MB 818	Current Trend in Microbiology	3-0
MB 820	Epidemiology: Analytical and Experimental Approaches	3-0
MB 822	Management of Infectious Wastes	3-0
MB 824	Mycotic Infection	3-0
MB 826	Diagnostics Chemistry for Microbial Diseases	3-0
MB 828	Environmental Microbiology & Public Health	3-0
MB 830	Advances in Soil Microbiology	3-0
MB 832	Veterinary Microbiology	3-0
MB 834	Microbial Plant Diseases	3-0
BOT 501	Biotechnological Aspect of Allelopathy	3-0

Doctor of Philosophy in **Biotechnology**

Recognized by Higher Education Commission (HEC).

Program Code	160
Credit Hours	56
Number of Courses	8 + Dissertation
Minimum Duration	6 Semesters, 3 Years
Maximum Duration	16 Semesters, 8 Years
Minimum CGPA Required To Earn Degree	3.00
HEC NOC Issuance Date	21st April, 2017

Eligibility Criteria:

Candidate having 18 years of education in relevant field with 3.00 CGPA on the scale of 4.0 in semester system or at least 60% marks in annual system from any recognized institute/university is eligible to apply.

Candidates needs to pass GRE/ HAT/ SU-GAT (General) conducted by any Registered Testing Agency or University with at least 60% cumulative score and qualify interview to be conducted by the concerned department.

Candidates who have done MS without Research Thesis may be considered for admission in the PhD program provided they have one published paper in an HEC recognized journal as a Principal Author.

Program Objectives:

- To provide scholars with a solid foundation in the rapidly expanding field of biotechnology.
- To provide scholars with knowledge, understanding of current theories, concepts and laboratory practices in biotechnology.
- To offer opportunity to the prospective scholars to carry out research in areas such as, Nano-biotechnology, Biodegradation, Microbial Enzymes, Biosurfactants, Fermentation Biotechnology, Forensic Biotechnology & Diagnostics etc.
- To spread general awareness regarding utilization of biotechnology in different sectors of society and R&D organizations.

Program Outcomes:

- Graduates after successful completion of PhD will be able to critically analyze problems related to environment, health, agriculture and industry and devise innovative solutions through biotechnological interventions.
- The graduates will be able to effectively communicate science orally in seminars & conferences and through publication in reputable national and international journals.
- This program will produce skilled researchers in the field of Biotechnology for serving in academia, industry and research organizations.
- They will be capable to teach, supervise and develop novel techniques.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Core Course-I	3-0
	Core Course-II	3-0
	Elective-I	3-0
QT 701	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.10
	Core Course-III	3-0
	Core Course-IV	3-0
	Elective-II	3-0
QT 801	Fehm-e-Quran - II	0-1

Semester Three and Onwards:

Course Code	Course Title	Cr. Hrs.09
RES 900	Dissertation	0-9

Note for Scholars:

- Course will be selected from the given list of approved courses in consultation with the Research Advisor.
- The Research Advisor may direct the scholar to register for additional courses related to the area of research.
- Scholar needs to be registered in dissertation of Nine (09) credit hours for each semester for minimum of four (04) semesters.
- Scholar will submit his/her research proposal for approval from BOASAR.
- The scholar shall be required to publish a research paper in an HEC recognized journal before the public defense of the PhD dissertation.
- University Rules and Regulations for Post Graduate Degrees will be applicable.
- *HEC quality criteria will be applicable.

List of Core Courses

(Select any four courses)

Course Code	Course Title	Cr. Hrs.
BT 700	Fermentation Biotechnology	3-0
BT 703	Animal Cell and Tissue Culture	3-0
BT 705	Methods in Molecular Diagnostics	3-0
BT 707	Biofuels and Biorefineries	3-0
BT 709	Pharmaceutical Biotechnology	3-0
BT 711	Fungal Biotechnology	3-0
BT 713	Mycorrhizal Biotechnology	3-0
BT 715	Algal Biotechnology	3-0
BT 717	Animal Biotechnology	3-0
BT 719	Phytoremediation and Bioremediation Technology	3-0
MB 711	Probiotics	3-0

List of Electives Courses

(Select any one course in first two semesters)

Course Code	Course Title	Cr. Hrs.
BT 821	Biosensors	3-0
BT 823	Hospital Waste Management	3-0
BT 825	Water and Waste Water Treatment	3-0
BT 827	Biochemistry of Nucleic Acid	3-0
BT 829	Epigenetics	3-0
BT 831	Bioinformatics and Protein Structure/Function	3-0
BT 833	Microbial Enzyme Technology	3-0
BT 835	Plasmids, Episomes and Insertion Sequences	3-0
BT 800	Molecular Immunology	3-0
BT 802	General Virology	3-0
BT 804	Bioprocess Technology	3-0
BT 805	Current Trends in Molecular Medicine	3-0
BT 806	Cell Signaling	3-0
BT 808	Genomics	3-0
BT 810	Proteomics	3-0
BT 812	Tissue Engineering	3-0
BT 814	Fundamentals of Biotechnology	3-0
BT 816	Gene Therapy	3-0
BT 819	Dermatogenetics	3-0
BOT 501	Biotechnological Aspect of Allelopathy	3-0

Sarhad Institute of **Health Sciences**

(Constituent body of Sarhad University)

Vision

Quality Health for all through Professional Excellence.

Mission

To produce highly qualified and practically skilled public health experts capable of facing the challenges of emerging health problems through technical means.

Program Offered:

- Master of **Public Health**

Faculty Members, Sarhad Institute of **Health Sciences**

Prof. Dr. Saadullah Afridi
Director
MBBS (University of Punjab, Lahore),
DTCD (University of Punjab, Lahore),
DPHPM (University of Peshawar),
MPH (Gandhara University, Peshawar),
DPA (University of Peshawar),
MBA Marketing (AIOU, Islamabad),
MS HR (Gandhara University, Peshawar),
CHPE (KMU, Peshawar),
CQMTMH (Heidelberg University, Germany)

Ms. Safia Murad
Senior Lecturer / Coordinator
M.Sc Statistics (University of Peshawar),
M.Ed (University of Peshawar),
M.Phil Statistics (University of Peshawar)

Mr. Abid Ullah
Senior Lecturer,
BS Dental (Bacha Khan University, Charsadda),
MPH (Sarhad University, Peshawar)
CHPE (KMU, Peshawar)

Dr. Hanif-ur-Rehman
Assistant Professor,
BS Chemistry (University of Peshawar),
M.Phil Chemistry (University of Peshawar),
Ph.D Chemistry, (University of Peshawar)

Dr. Sher Bahadur
Assistant Professor/Research Coordinator,
MBBS (KMU, Peshawar),
M.Sc Health Policy & Mgt. (Aga Khan University, Karachi),
Msc. Genetics (Karachi University)
CHR (KMU, Peshawar)

Ms. Ambreen
Senior Lecturer/ Coordinator
MPH (Abasyn University, Peshawar),
MHA (KMU, Peshawar),
CPHQ (NAHQ, USA),
CHPE (KMU, Peshawar)

Ms. Haifa Tahir
Senior Lecturer,
Pharm-D (Sarhad University, Peshawar),
MPH (Sarhad University, Peshawar)

Master of **Public Health**

Recognized by Higher Education Commission (HEC).

Program Code	086 / 282
Credit Hours	38 / 50
Plan A: Number of Courses	12 / 16 + Research Thesis
Plan B: Number of Courses	13 / 17 + Project
Plan C: Number of Courses	14 / 18
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	April, 2011

Eligibility Criteria:

Life Sciences Stream: Candidates having Sixteen/Seventeen years of Education in BS Public Health / MBBS / BDS / MD / BSN / DVM / Pharm-D / BS Human Nutrition & Dietetics / BS Biological Sciences / MSc Epidemiology / and BS equivalent qualification in any Allied Health related disciplines are eligible to apply.

Other than Life Sciences Stream: Candidates having 16 years of education in disciplines other than the Life Sciences Stream with Two (02) years of professional experience in Public Health Area are eligible to apply.

Applicants need to pass GRE / HAT/ SU-GAT (General) conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of admission.

Program Objectives:

The graduates of the MPH program are expected:

- To solve health-related problems within the financial, socio-cultural, environmental and political framework of Pakistan & its surrounding regions.
- To analyze public health history, philosophy and values (national and international) as benchmark for guidance.
- To plan, manage, monitor and evaluate interventions in the field of public health.
- To communicate public health messages to diverse audience effectively.
- To advocate sound public health policies and practices.

Program Outcomes:

After completion of MPH program at this university, the graduates will be able:

- To assess the biological, physical, social, economical, psychological factors and political determinants of a health issue and how they contribute to population health and health inequities
- To design, conduct, analyze and interpret the results of relevant studies, projects and programs.
- To analyze/ health care systems & policies, at local and international levels.
- To critical awareness of quantitative and qualitative research methods and ethical principles in describing and assessing a population's health.
- To develop the skills to plan, design, implement, analyze and interpret epidemiological studies.
- Comprehensive understanding into the global drivers of reform in health systems and their potential impacts on the future public health policy directions in both developed and developing nations.
- Exchange and communicate health information to audiences from diverse backgrounds.

Scheme of Studies

Life Sciences Stream

1st Semester

Course Code	Course Title	Cr. Hrs.10
PH 605	Social and Behavioral Aspects of Public Health	3-0
PH 607	Basic Epidemiology and Biostatistics	3-0
PH 609	Health System	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.12
RES 611	Research Methodology	3-0
PH 613	Applied Epidemiology and Biostatistics	3-0
PH 615	Environmental and Occupational Health	3-0
PH 617	Communicable and Non-communicable Diseases	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.10
PH 701	Health Promotion, Advocacy and Social Mobilization	3-0
	Elective-I	3-0
	Elective-II	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06
Plan A: Research work		
RES 790	Research Thesis	0-6
Plan B: Project work		
	Elective Course-III	3-0
RES 750	Project	0-3
Plan C: Course work		
	Elective Course-III	3-0
	Elective Course-IV	3-0

Other than Life Sciences Stream

1st Semester

Course Code	Course Title	Cr. Hrs.16
PH 501	Concept of Health and Disease	3-0
PH 503	Basic Medical Microbiology	3-0
PH 605	Social and Behavioral Aspects of Public Health	3-0
PH 607	Basic Epidemiology and Biostatistics	3-0
PH 609	Health System	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.15
PH 505	Population Dynamics	3-0
RES 611	Research Methodology	3-0
PH 613	Applied Epidemiology and Biostatistics	3-0
PH 615	Environmental and Occupational Health	3-0
PH 617	Communicable and Non-communicable Diseases	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.13
PH 507	Primary Health Care	3-0
PH 701	Health Promotion, Advocacy and Social Mobilization	3-0
	Elective-I	3-0
	Elective-II	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06
Plan A: Research work		
RES 790	Research Thesis	0-6
Plan B: Project work		
	Elective Course-III	3-0
RES 750	Project	0-3
Plan C: Course work		
	Elective Course-III	3-0
	Elective Course-IV	3-0

List of Electives

Course Code	Course Title	Cr. Hrs.
PH 705	Hospital Management	3-0
PH 707	Nutrition for Children, Adolescent & Mothers	3-0
PH 709	Health Policy, Planning and Management	3-0
PH 711	Disaster Management	3-0
PH 712	Mental Health	3-0

Faculty of Sciences, Computer Science & IT

Department of Computer Science & IT
Department of Mathematics

Department of **Computer Science & IT**

Vision

To be a leading department in the field of Computer Science and Information Technology, recognized for its commitment to academic excellence, innovation, and research, producing graduates and scholars who drive technological advancements and address global challenges.

Mission

Our mission is to provide quality education and cutting-edge research opportunities in Computer Science and Information Technology, preparing students for successful careers and leadership roles in diverse fields. We are dedicated to fostering creativity, critical thinking, and ethical practices, while contributing to the advancement of knowledge and the development of solutions that address societal needs. Through collaboration, interdisciplinary approaches, and partnerships with industry and academia, we strive to make significant contributions to the field and to society at large.

Programs Offered:

- Master of Science in **Computer Science**
- Master of Science in **Software Engineering**
- Master of Science in **Artificial Intelligence**
- Doctor of Philosophy in **Computer Science**

Faculty Members, Department of Computer Science & IT

Prof. Dr. Saeed Mahfooz
Dean, Faculty of Sciences, CS & IT,
Ph.D Distributive Systems,
Liverpool John Moores University, UK

Dr. Haroon Ur Raheed
Associate Professor,
Ph.D Mathematics,
AWKUM

Dr. Saadat Khan
Assistant Professor,
Ph.D Physics,
Gomal University, DI Khan

Mr. Abu Bakar Nauman
Assistant Professor,
MS Computer Science,
Sarhad University, Peshawar

Engr. Mudassir Aman
Assistant Professor,
MSc (Communication & Electronics Engg.),
UET Peshawar.

Mr. Asad Malook
Assistant Professor,
MS Computer Science (Telecom),
University of Peshawar

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Lecturer,
MS Software Engineering,
University of Bradford, UK

Prof. Dr. Jahangir Khan
Head of Department,
Ph.D Agricultural Information Tech.,
China Agricultural University, China

Dr. Muhammad Ismail Mohmand
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Ph.D Engineering (Software Engg.),
Lincoln University College, Malaysia

Dr. Asad Ali
Assistant Professor
Ph.D Computer Science and IT,
University of Salerno, Italy

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MS Computer Science,
Islamia College University, Peshawar

Mr. Muhammad Jebran Khan
Assistant Professor,
MS Mathematics,
Bacha Khan University, Charsadda

Mr. Adam Khan
Assistant Professor,
MS Computer Science,
Abasyn University, Peshawar

Mr. Raheem Ullah
Lecturer,
MS Software Engineering,
Abasyn University Peshawar

Dr. Shahid Latif
Associate Professor / Coordinator,
Ph.D Computer Science,
University of Peshawar

Dr. Muhammad Asif Khan
Assistant Professor,
Ph.D Computer Science,
FAST-NUCES, Islamabad

Dr. Muhammad Sohail
Assistant Professor,
Ph.D Computer Science,
KUST, Kohat

Mr. Maddad Khan
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Southampton SOLENT University, UK

Engr. Aiman Rashid
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Mr. Kamran Khan Tatari
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BTH Sweden

Engr. Altamash Khan Afridi
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UET, Peshawar

Faculty Members, Department of Computer Science & IT

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CECOS University, Peshawar

Syed Rohan Ali Shah
Lecturer,
MS IT (Computer Networks),
IM Sciences, Peshawar

Mr. Muhammad Danish Ali
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BS Computer Science,
Agriculture University, Peshawar

Mr. Abid Ali
Lecturer,
MS Computer Science,
COMSATS University, Islamabad

Mr. Ahmad Khan Khisro
Junior Lecturer,
BS Computer Science,
IM Sciences, Peshawar

Engr. Muhammad Yasir
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UET, Peshawar

Mr. Muhmmad Fawad
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Mr. Niamat Ullah
Junior Lecturer,
MSc Computer Science,
University of Peshawar

Mr. Nasir Khan
Junior Lecturer,
BS Computer Science,
Agriculture University, Peshawar

Mr. Noor Ul Amin
Lecturer,
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COMSATS University, Islamabad

Ms. Tehreem Fatima
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Abasyn University, Peshawar

Mr. Muhammad Asfandyar
Lecturer,
MS Software Engineering,
Abasyn University, Peshawar

Engr. Ayub Ashraf
Junior Lecturer,
BSc Computer Systems Engineering,
UET, Peshawar

Mr. Habib Ullah
Junior Lecturer,
BS Computer Science,
IM Sciences Peshawar

Engr. Mobashir Hussain
Lecturer,
MS Computer Software Engineering,
UET, Mardan

Mr. Junaid Ullah Khan
Lecturer,
MS Software Engineering,
COMSATS University, Islamabad

Master of Science in **Computer Science**

Recognized by Higher Education Commission (HEC)

Program Code	043
Credit Hours	32-35
Plan A: Number of Courses	10 + Research Thesis
Plan B: Number of Courses	12 + Project
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	13th December, 2003

Eligibility Criteria:

Candidates having 16 years of education in (Software Engineering, Computer Science, Information Technology, Artificial Intelligence, Data Science, Cyber Security, Computer System Engineering). from HEC recognized institutions having a minimum CGPA of 2.00 on a scale of 4.00 (or overall 60% marks in annual system) or equivalent.

Applicants need to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of admission.

The university may stipulate prerequisite courses to be completed by applicants not meeting the four-year university level study requirements or not having the relevant background to bring them equivalent to the requisite HEC requirements.

Program Objectives:

Computers are widely used in a great variety of industrial and commercial organizations, and the demand for computer science graduates far exceeds the supply. As a result, there are many exciting avenues for new postgraduates seeking creative and rewarding work with major industries and software houses. The MS CS Program has, therefore, been designed to provide our scholars the opportunity to pursue highly productive careers in industry, academia and research institutes. It enables them to emerge as graduates, having the understanding and vision to creatively apply their knowledge to practical situations. The enhanced lab and practical component of the program gives a competitive edge to our graduates and provides them the credentials to embark upon careers in Software Engineering, Networks & Communication Information Management, Artificial Intelligence, Research or Academia.

Program Outcomes:

- Exhibit advanced knowledge of Computer Science field across fundamental theories, systems, softwares and applications.
- Master and gain in-depth knowledge in at least one specialized area of Computer Science.
- Think creatively and critically; to solve challenging and non-trivial problems.
- Apply problem-solving skills and computing knowledge to develop solutions for real world problems.
- Apprehend how computers and technology can impact the legal, social, ethical, and cultural aspects of the society.
- An ability to function effectively on teams to accomplish a common goal.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Core Course-I	3-0
	Core Course-II	3-0
	Core Course-III	3-0
QT 501	Fehm-e-Quran -I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.09
	Core Course-IV	3-0
	Elective-I	3-0
RES 580	Research Methodology	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.07
	Elective-II	3-0
	Elective-III	3-0
QT 601	Fehm-e-Quran -II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.6-9
Plan A: MS with Research Work		
RES 690	Research Thesis	0-6
Plan B: MS with Course Work		
	Elective IV	3-0
	Elective V	3-0
	Project	0-3

List of Courses for MS Computer Science

Core Courses

Course Code	Course Title	Cr. Hrs.
CS 561	Advanced Theory and Computation	3-0
CS 532	Advanced Algorithms Analysis	3-0
CS 522	Advanced Computer Architecture	3-0
CS 536	Advanced Operating Systems	3-0

Supporting Courses

Course Code	Course Title	Cr. Hrs.
MA 622	Mathematical Methods for Computing	3-0
MA 632	Advanced Linear Algebra	3-0
MA 522	Advanced Numerical Analysis	3-0
MA 620	Probability and Random Processes	3-0

Specializations Offered

Parallel & Distributed Computing

Course Code	Course Title	Cr. Hrs.
CS 665	Parallel Programming for Multicore Systems	3-0
IT 619	Grid Computing	3-0
CS 666	Cloud Computing	3-0
CS 667	Mobile Cloud Computing	3-0
CS 668	Distributed Computing	3-0
CS 626	Simulation and Modeling	3-0

Networks & Communication

Course Code	Course Title	Cr. Hrs.
CS 664	Advanced Computer Networks	3-0
COM 556	Broadband Communication	3-0
COM 537	Wireless Communication	3-0
COM 670	Network Security and QoS	3-0
CS 631	Mobile Adhoc Networks	3-0
CS 651	Information Theory and Coding	3-0
COM 632	Network Performance Evaluation	3-0

Specializations Offered

Computational Intelligence & Machine Vision

Course Code	Course Title	Cr. Hrs.
CS 663	Advanced Artificial Intelligence	3-0
CS 638	Computer Vision	3-0
CS 647	Advanced Computer Graphics	3-0
CS 649	Pattern Recognition	3-0
CS 648	Machine Learning	3-0
CS 568	Natural Language Processing	3-0
CS 617	Digital Image Processing	3-0
CS 621	Digital Signal Processing	3-0

Software Engineering

Course Code	Course Title	Cr. Hrs.
SE 540	Advance Software Engineering	3-0
SE 670	Software Management Quality	3-0
SE 526	Software Requirement Engineering	3-0
SE 529	Software Quality and Metrics	3-0
SE 622	Software Design Patterns	3-0
SE 611	Software Estimation	3-0
SE 668	Software Project Management	3-0

Data Science

Course Code	Course Title	Cr. Hrs.
CS 612	Statistical and Mathematical Methods for Data Science	3-0
CS 613	Tools and Techniques in Data Science	3-0
CS 614	Machine Learning	3-0
CS 615	Big Data Analytics	3-0
CS 616	Distributed Data Processing	3-0
CS 617	Complex Networks in Data Sciences	3-0

Information Management

Course Code	Course Title	Cr. Hrs.
CS 537	Advance Databases	3-0
CS 541	Data Warehouse	3-0
CS 529	Distributed and Object Databases	3-0
CS 542	Data Mining	3-0
CS 633	Data Grids	3-0
CS 661	Semantic Databases	3-0
CS 641	Spatial and Temporal Database	3-0

Master of Science in **Software Engineering**

Recognized by Higher Education Commission (HEC)

Program Code	230
Credit Hours	35-38
Plan A: Number of Courses	11 + Research Thesis
Plan B: Number of Courses	13 + Project
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issue Date	Applied to HEC for NOC

Eligibility Criteria:

Candidates having 16 years of education in (Software Engineering, Computer Science, Information Technology, Artificial Intelligence, Data Science, Cyber Security, Computer System Engineering). from HEC recognized institutions having a minimum CGPA of 2.00 on a scale of 4.00 (or overall 60% marks in annual system) or equivalent.

Applicants need to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of admission.

The university may stipulate prerequisite courses to be completed by applicants not meeting the four-year university level study requirements or not having the relevant background to bring them equivalent to the requisite HEC requirements.

Program Objectives:

- Prepare students who can critically apply the concepts, theories and practices to provide creative solutions of complex computing problems.
- Prepare students who can define, plan, implement and test a medium-sized software project using appropriate software engineering processes, methods and techniques.
- Prepare students to effectively communicate their ideas in written and electronic form, & prepare them to work collaboratively in a team environment.
- Prepare students with a theoretical software engineering background and applied research needed to enter a doctorate program in software engineering.
- Prepare students to join an appropriate and respectable level position in a computing-related field, and to maintain their professional skills in rapidly evolving field.

Program Outcomes:

- Ability to gain knowledge of the Software Engineering with its application in the cross disciplines.
- To prepare students with theoretical and applied knowledge of software for the solution of complex problems.
- Prepare the students in the area of computing to learn independently in a constantly changing discipline of software project by means of appropriate software engineering methods, processes and techniques.
- The ability to identify and formulate problems in the field of theoretical and applied computer science, and address their solutions.
- Ability to work on the latest equipment and contemporary software tools in multifaceted and multidisciplinary environment.
- An ability to recognize importance of pursuing lifelong learning in the broader context of innovation and technological developments.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Core Course-I	3-0
	Core Course-II	3-0
	Elective-I (Domain Elective)	3-0
QT 501	Fehm-e-Quran -I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.09
	Core Course-III	3-0
	Elective-II (General Elective)	3-0
RES 580	Research Methodology	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.10
	Elective-III (Domain Elective)	3-0
	Elective-IV (General Elective)	3-0
	Elective-V (Domain Elective)	3-0
QT 601	Fehm-e-Quran -II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.6-9
Plan A: MS with Research Work		
RES 690	Research Thesis	0-6
Plan B: MS with Course Work		
	Elective-VI (General Elective)	3-0
	Elective-VII (General Elective)	3-0
	Project	0-3

List of Core Courses

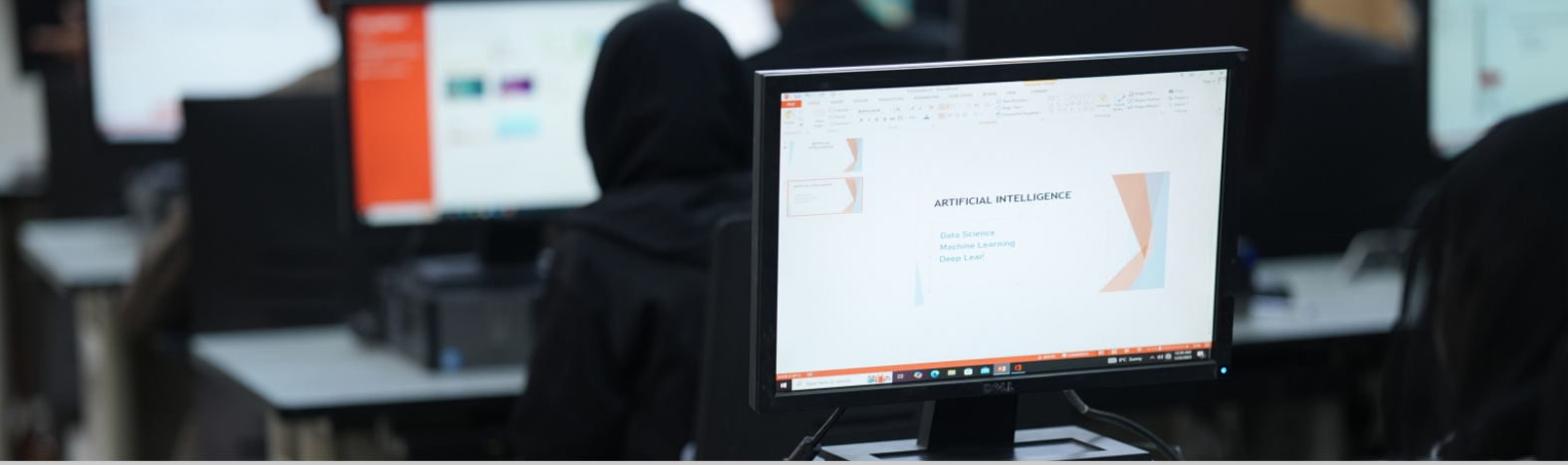
Course Code	Course Title	Cr. Hrs.
SE 501	Advanced Requirements Engineering	3-0
SE 503	Advanced Software System Architecture	3-0
SE 505	Software Testing and Quality Assurance	3-0

List of Domain Elective Courses

Course Code	Course Title	Cr. Hrs.
SE 507	Advanced Software Project Management	3-0
SE 511	Empirical Software Engineering	3-0
SE 513	Advanced Formal Methods	3-0
SE 515	Component Based Software Engineering	3-0
SE 517	Advanced Algorithm Analysis	3-0
SE 519	Agile Software Development	3-0
SE 520	Advanced Databases	3-0

List of General Elective Courses

Course Code	Course Title	Cr. Hrs.
SE 620	Software Measurement and Metrics	3-0
SE 622	Reliability Engineering	3-0
SE 624	Complex Networks	3-0
SE 626	Software Configuration Management	3-0
SE 628	Agent Based Modeling	3-0
SE 630	Software Risk Management	3-0
SE 632	Statistical and Mathematical Methods for Data Science	3-0
SE 634	Tools and Techniques in Data Science	3-0
SE 636	Machine Learning	3-0
SE 638	Big Data Analytics	3-0
SE 640	Special Topics (Independent Study)	3-0
SE 642	Special Topics in Software Engineering (Independent Study)	3-0



Master of Science in **Artificial Intelligence**

Recognized by Higher Education Commission (HEC)

Program Code	231
Credit Hours	32-35
Plan A: Number of Courses	10 + Research Thesis
Plan B: Number of Courses	12 + Project
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.5
HEC NOC Issuance Date	11th July, 2023

Program Outcomes:

- The ability to apply coding skills, design skills, and creative thinking to build cutting-edge AI systems.
- The ability to convert descriptions of abstract AI challenges into descriptions of specific AI project requirements.
- The knowledge of machine learning, natural language processing, and computer vision design mechanisms, algorithms, and state-of-the-art system architectures.
- The ability to identify well-defined performance metrics (e.g., sensitivity and specificity of the AI system).
- The ability to design and run simulations/ experiments to validate and enhance system/ software performance.
- The possession of excellent skills in coding in a high-level, general-purpose programming language (e.g, R language or Python etc).

Eligibility Criteria:

Candidates having 16 years of education in (Software Engineering, Computer Science, Information Technology, Artificial Intelligence, Data Science, Cyber Security, Computer System Engineering). from HEC recognized institutions having a minimum CGPA of 2.00 on a scale of 4.00 (or overall 60% marks in annual system) or equivalent.

Applicants need to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of admission.

The university may stipulate prerequisite courses to be completed by applicants not meeting the four-year university level study requirements or not having the relevant background to bring them equivalent to the requisite HEC requirements.

Program Objectives:

- To prepare students for innovation in the area of Artificial Intelligence, in two ways: firstly, the creation of innovative techniques and methods within the research area of Artificial Intelligence and, secondly, the application of these techniques and methods relative to social and business reality as well as creating processes and innovative computer solutions.
- Acquire advance training of a specialized and multidisciplinary nature, geared towards promoting the introduction to research work in Artificial Intelligence.
- Provide a higher degree of knowledge in Artificial Intelligence techniques and methods, to be able to deal with and solve technological and scientific problems through the research (research in order to innovate).
- Create innovative programs that are able to combine the specialized nature of the degree with creativity that underlies original, active and productive research directions (innovate in order to research) in Artificial Intelligence.
- Enable students to be creative in addressing and solving scientific and technological problems through research in Artificial Intelligence.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Core Course-I	3-0
	Core Course-II	3-0
	Elective-I (Domain Elective)	3-0
QT 501	Fehm-e-Quran -I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.09
RES 580	Research Methodology	3-0
	Core Course-III	3-0
	Elective-II (Domain Elective)	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.07
	Elective-III (Domain Elective)	3-0
	Elective-V (Domain Elective)	3-0
QT 601	Fehm-e-Quran -II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.6-9
Plan A: MS with Research Work		
RES 690	Research Thesis	0-6
Plan B: MS with Course Work		
	Elective-V (General Elective)	3-0
	Elective-VI (General Elective)	3-0
	Project	0-3

List of Core Courses

Course Code	Course Title	Cr. Hrs.
AI 500	Advanced Artificial Intelligence	3-0
AI 502	Advanced Machine Learning	3-0
AI 504	Knowledge Representation and Reasoning	3-0

List of Domain Elective Courses

Course Code	Course Title	Cr. Hrs.
AI 506	Artificial Intelligence in Software Quality	3-0
AI 508	Semantic Web Technologies	3-0
AI 510	Optimization Techniques	3-0
AI 512	Robotics	3-0
AI 514	Expert System	3-0
AI 516	Computer Vision	3-0
AI 518	Natural Language Processing	3-0

List of General Elective Courses

Course Code	Course Title	Cr. Hrs.
AI 610	Agent Based Modeling	3-0
AI 612	Big Data Analytics	3-0
AI 614	Academic Writing and Publishing	3-0
AI 616	Tools and Techniques in Data Science	3-0
MA 617	Statistical and Mathematical Methods for Data Science	3-0
AI 618	Research Topics in Artificial Intelligence	3-0

Doctor of Philosophy in **Computer Science**

Recognized by Higher Education Commission (HEC)

Program Code	127
Credit Hours	56
Number of Courses	8 + Dissertation
Minimum Duration	6 Semesters, 3 Years
Maximum Duration	16 Semesters, 8 Years
Minimum CGPA Required To Earn Degree	3.00
HEC NOC Issuance Date	13th December, 2003

Program Objectives:

The objectives of the program are to prepare exceptionally qualified individuals for research careers in academia and industry. The program is designed for scholars who offer evidence of exceptional scholastic ability, intellectual creativity, and research motivation. The Ph.D. degree is viewed as a certification by the faculty that the student has a solid foundation in computer science and has performed original research in the area. The basis for gaining the degree will be the student's grasp of the subject matter of computer science, competency to plan and conduct research, and ability to express ideas adequately and professionally in oral and written language. The doctoral program emphasizes research, and the SUIT encourages prospective candidates to involve themselves in research under the supervision of a faculty member at the earliest possible opportunity. In addition to research activities in various areas of computer science, there are many opportunities for interdisciplinary and interdepartmental research.

Eligibility Criteria:

Candidates having 18 years of education (MS / Masters in CS/IT/ Software Engg /Computer System Engineering) with at least 3.00 CGPA on a scale of 4.00 or 60% marks in annual system are eligible to apply.

Candidates needs to pass GRE/ HAT/ SU-GAT (General) conducted by any Registered Testing Agency or University with at least 60% cumulative score and qualify interview to be conducted by the concerned department.

Candidates who have done MS without Research thesis may be considered for admission in the PhD program if they submit a published paper in an HEC recognized journal as a principal author.

Program Outcomes:

After completion of the PhD in Computer Science, scholars will be able to:

- Master broad knowledge in several specialized areas of Computer Science across fundamental theory, software, systems, and applications.
- Demonstrate in-depth knowledge in area of research.
- Critically analyze published work in their area of research.
- Apply critical thinking, problem solving and technical skills to solve problems with minimal guidance, and to carry out independent and original research.
- Effectively communicate ideas and results to peers and to broader technical audiences in the form of conference papers, journal papers, and/or oral presentations.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Elective-I	3-0
	Elective-II	3-0
	Elective-III	3-0
QT 701	Fehm-e-Quran -I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.10
	Elective-IV	3-0
	Elective-V	3-0
	Elective-VI	3-0
QT 801	Fehm-e-Quran -II	0-1

Semester Three and Onwards:

Course Code	Course Title	Cr. Hrs.09
RES 900	Dissertation	0-9

Note for Scholars:

- Course will be selected from the given list of approved courses in consultation with the Research Advisor.
- The Research Advisor may direct the scholar to register for additional courses related to the area of research.
- Scholar needs to be registered in dissertation of Nine (09) credit hours for each semester for minimum of four (04) semesters.
- Scholar will submit his/her research proposal for approval from BOASAR.
- The scholar shall be required to publish a research paper in an HEC recognized journal before the public defense of the PhD dissertation.
- University Rules and Regulations for Post Graduate Degrees will be applicable.
- The milestone of PhD Studies to be followed.
- *HEC quality criteria will be applicable.

Research Areas and Courses

Computer Science General

Course Code	Course Title	Cr. Hrs.
CS 714	Systems Development for Computational Science	3-0
CS 716	Special Topics in Computer Science	3-0
CS 814	Emerging Technologies in Computer Science	3-0
RES 801	Research Methods for Computer Science (for those research scholars who had not taken research methods course in MS degree program)	3-0

Software Engineering

Course Code	Course Title	Cr. Hrs.
SE 741	Research Topics in Software Engineering	3-0
SE 742	Software Requirement Engineering	3-0
SE 743	Software Quality Management	3-0
SE 744	Software Design Patterns	3-0
SE 745	Software Estimation	3-0
SE 841	Special Topics in Software Engineering	3-0
SE 715	Software Quality Metrics	3-0
SE 746	Reliable Software Architectures	3-0

Networks & Communication

Course Code	Course Title	Cr. Hrs.
COM 711	Research Topics in Computer Networks	3-0
COM 732	Broadband Communication	3-0
COM 733	Wireless Communication	3-0
COM 834	Network Security and QoS	3-0
COM 735	Mobile Adhoc Networks	3-0
COM 812	Simulation and Modeling	3-0
Supporting Courses		
MA 821	Probability and Random Processes	3-0

Parallel Computing

Course Code	Course Title	Cr. Hrs.
CS 834	Parallel Algorithms on Multicore Systems	3-0
CS 844	General Purpose Programming on Graphic Processing Units	3-0
CS 823	Grid Computing	3-0
Supporting Courses		
MA 833	Advanced Numerical Analysis	3-0
CS 837	Distributed Computing	3-0

Computational Intelligence & Machine Vision

Course Code	Course Title	Cr. Hrs.
CS 711	Digital Image Processing	3-0
CS 815	Advanced Machine Learning	3-0
CS 861	Advanced Computer Vision	3-0
CS 862	Pattern Recognition	3-0
CS 855	Probabilistic Graphical Models	3-0
CS 871	Medical Image Processing and Analysis	3-0
Supporting Courses		
MA 821	Probability and Random Processes	3-0
CS 754	Digital Signal Processing	3-0

Cloud Computing

Course Code	Course Title	Cr. Hrs.
CS 824	Parallel and Distributed Computing	3-0
CS 830	Cluster and Grid Computing	3-0
CS 825	Cloud Computing	3-0
Supporting Courses		
CS 836	Mobile Cloud Computing	3-0
CS 846	Big Data	3-0
CS 854	Internet of Things	3-0

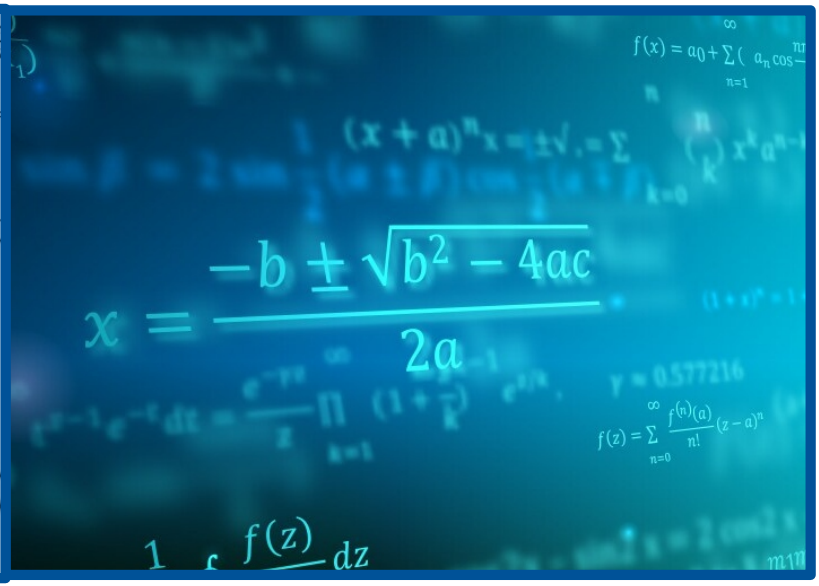
Department of **Mathematics**

Mission

The Mathematics Department aims to deliver top-quality education and research, equipping students with essential analytical skills for diverse careers and fostering an inclusive, innovative academic community.

Program Offered:

- Master of Philosophy in **Mathematics**



Faculty Members, Department of Mathematics

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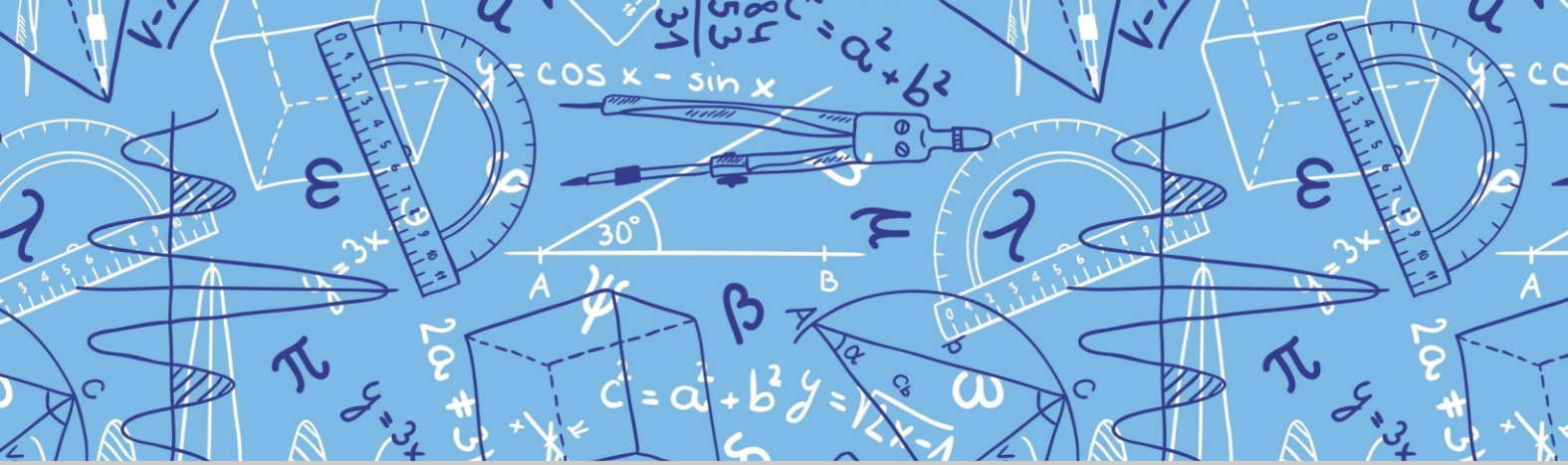
Mr. Muhammad Jebran Khan
Assistant Professor,
MS Mathematics,
Bacha Khan University, Charsadda



Master of Philosophy in **Mathematics**

Recognized by Higher Education Commission (HEC)

Program Code	242
Credit Hours	35
Number of Courses	11 + Research Thesis
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	18th November, 2024

Program Objectives:

The program objectives are:

- To prepare graduates for productive careers in industry, government and education sectors.
- Gain experience in investigating real world problems and learn how to apply mathematical ideas and models to address those issues.
- To provide students with sufficient mathematical mastery applicable in various fields of life including research, industries, businesses, societies and the government sector.
- To effectively communicate mathematical ideas with clarity and coherence through both written and spoken forms.
- To prepare students for doctoral degree by providing a solid foundation in mathematical sciences.
- To cultivate capable scholars skilled in effectively conveying their knowledge to students, fellow mathematicians and their communities.

Eligibility Criteria:

Candidates with Sixteen years of education in relevant field (BS Mathematics or M. Sc Mathematics or any equivalent qualification) with at least 50% marks in annual system or CGPA 2.00 on a scale of 4.00 in semester system are eligible to apply.

Applicant need to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency, or University with at least 50% cumulative score and to clear departmental interview at the time of admission.

Program Outcomes:

- Applying knowledge of mathematics, science and engineering fundamentals to solve complex problems in various engineering domains.
- Designing solution strategies for mathematical models in science and engineering disciplines.
- Understand the impact of mathematical solutions in societal and environmental contexts, and demonstrate knowledge of the necessity for sustainable development.
- Sensing the needs of their profession, they will become aware of ethics, social responsibilities and the capability to demonstrate knowledge for sustainable development.
- Graduates would demonstrate high competitiveness when seeking employment in academia or their preferred fields within competitive environment.
- Now the industry is transitioning to establish research labs, which will undoubtedly create a new market for researchers in mathematics, as mathematics is essential tool for organizing research.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
	Core-I	3-0
	Core-II	3-0
	Elective-I	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.09
	Core-III	3-0
MAT 503	Introduction to Computational Software and Research Methodology (Compulsory)	3-0
	Core-IV	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.10
	Elective-II	3-0
	Elective-III	3-0
	Elective-IV	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs. 06
RES 690	Research Thesis	0-6

List of Core Courses

Course Code	Course Title	Cr. Hrs.
MAT 501	Numerical linear Algebra	3-0
MAT 502	Integral Transforms and Their Applications	3-0
MAT 504	Advanced Ordinary Differential Equations	3-0
MAT 505	Advanced Partial Differential Equations	3-0
MAT 506	Advanced Integral Equations	3-0
MAT 507	Advanced Group Theory	3-0
MAT 508	Advanced Functional Analysis	3-0
MAT 509	Advanced Numerical Solutions of Ordinary Differential Equations	3-0
MAT 510	Riemannian Geometry	3-0
MAT 511	Advanced Mathematical Physics	3-0
MAT 512	Semi Group Theory	3-0
MAT 513	Fixed Point Theory	3-0
MAT 514	Advanced Algebra	3-0
MAT 515	Mathematical Techniques for Boundary Value Problems	3-0
MAT 516	Variational Inequalities and its Applications	3-0
MAT 517	Geometric Function Theory	3-0

List of Elective Courses

Course Code	Course Title	Cr. Hrs.
MAT 601	Applied Functional Analysis	3-0
MAT 602	Theory of Group Actions	3-0
MAT 603	Theory of Group Graphs	3-0
MAT 604	LA-Semi Groups	3-0
MAT 605	Theory of Semi Rings	3-0
MAT 606	Ring Theory and Its Application	3-0
MAT 607	Near Rings	3-0
MAT 608	Iterative Approximation Procedures	3-0
MAT 609	Banach Algebra	3-0
MAT 610	Advanced Topology	3-0
MAT 611	Spectral Theory in Hilbert Spaces	3-0
MAT 612	Application of Fixed Point Theory in Generalized Space	3-0
MAT 613	Fixed Point Theory in Modular Function Spaces	3-0
MAT 614	Advanced Graph Theory	3-0
MAT 615	Soft Topology	3-0
MAT 616	Approximation Theory	3-0
MAT 617	Advanced Numerical Solutions of Partial Differential Equations	3-0
MAT 618	Advanced Numerical Analysis	3-0
MAT 619	Nonlinear Analysis and its Application	3-0
MAT 620	Numerical Solutions of Integral Equations	3-0
MAT 621	Fourier Analysis	3-0
MAT 622	Computational Fluid Dynamics	3-0
MAT 623	Dynamical Systems and Control Theory	3-0
MAT 624	Mathematical Modeling	3-0
MAT 625	Mathematical Modeling in Physical Sciences	3-0
MAT 626	Bio-Mathematics	3-0
MAT 627	Perturbation Methods	3-0
MAT 628	Advanced Perturbation Methods	3-0
MAT 629	Viscous Fluid	3-0
MAT 630	Advanced Viscous Fluid	3-0
MAT 631	Fuzzy Algebra	3-0
MAT 632	Fuzzy Fixed Point Theory	3-0
MAT 633	Fuzzy Sets and Their Application	3-0
MAT 634	Fuzzy Group Theory	3-0
MAT 635	Advanced Complex Analysis	3-0
MAT 636	Heat Transfer	3-0
MAT 637	Mass Transfer	3-0
MAT 638	Non-Newtonian Fluid Dynamics	3-0

Faculty of Management Sciences

Department of Business Administration

Department of **Business Administration**

Vision

To be acknowledge and recognized as one of the leading business school at national and world wide for education and research in the areas of Business and Management.

Mission

To provide economically, socially, and culturally relevant business and management related education to all those who wish to benefit from it. We are a demand-led and customer focused education institution. We enhance learning, build confidence and create opportunities for all who choose to invest in studying at our school.

Programs Offered:

- Master of **Business Administration**
- Mater of Science in **Management Sciences**
- Doctor of Philosophy in **Management Sciences**

Faculty Members, Department of Business Administration

Prof. Dr. Wali Rahman
Head of Department,
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NUML, Islamabad

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Ms. Zil-e-Huma Najeeb
Lecturer,
MBA (Finance),
IM Sciences, Peshawar

Master of Business Administration

Recognized by Higher Education Commission (HEC)

Program Code	283 / 058
Credit Hours	35/68
Plan A: Number of Courses	11/22 + Research Thesis
Plan B: Number of Courses	12/23 + Research Project
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	1st August, 2011

Program Outcomes:

On the completion of the degree, the scholars would be expected to have:

- Got equipped with the strong foundation of business education and are capable of managing the affairs of the organization they desire to work in.
- Developed substantive knowledge in the area of business education specialization.
- Got the potential of understanding current models, issues and concerns in business.
- Got the potential of describing current practices, issues and concerns in business and apply these in business.
- Got the abilities of evaluating and critiquing of business practices with the aim to determine the better practices in business.
- Got the ability of devising strategies for their own professional development.

Eligibility Criteria:

For Business Stream: Candidates with 16 years of Business education with at least 50% marks in annual system or 2.00 CGPA on a scale of 4.00 in semester system are eligible to apply.

For Non-Business Stream: Candidates with 16 years of Non-Business education with at least 50% marks in annual system or 2.00 CGPA on a scale of 4.00 in semester system are eligible to apply.

Applicants needs to Pass GRE/ HAT/ SU-GAT (General) to be conducted by any registered Testing Agency or University with at least 50% cumulative score and to clear departmental interview at the time of admission.

Program Objectives:

Business education has been attracting priority in trade and industry, realizing this need for business graduates this program is designed to provide business education those to base who have not have business education but want to seek their career in business education. With this end in mind, the program is set to have the following objectives:

- To equip them with strong foundation of business education to enable them to manage the affairs of the organization they desire to work in.
- To provide them with substantive knowledge in the area of business education.
- To enable them to understand current models, issues and concerns of managing business.
- To enable them to describe current practices, issues and concerns in business and apply these in the business.
- To enable them to evaluate the critique business practices with the aim to determine the better practices in business.
- To enable them to devise appropriate strategies for their own professional development.

Scheme of Studies

Business Stream

1st Semester

Course Code	Course Title	Cr. Hrs.10
MKT 525	Seminars in Strategic Marketing	3-0
MGT 526	Seminars in Strategic Management	3-0
FIN 568	Investment Analysis	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.09
RES 580	Advance Research Methods in Business	3-0
	Elective-I	3-0
	Elective-II	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.10
	Elective-III	3-0
	Elective-IV	3-0
	Elective-V	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06
Plan A: with Research Work		
RES 690	Research Thesis	0-6
Plan B: with Course Work		
	Elective-VI	3-0
RES 490	Research Project	0-3

Non-Business Stream

1st Semester

Course Code	Course Title	Cr. Hrs.19
ACC 121	Principles of Accounting	3-0
ECO 112	Principles of Economics	3-0
MA 127	Business Mathematics	3-0
MGT 107	Principles of Management	3-0
FIN 231	Introductory Business Finance	3-0
MKT 227	Principles of Marketing	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.18
ACC 211	Financial Accounting	3-0
HR 333	Human Resource Management	3-0
MGT 345	Organizational Behavior	3-0
MA 209	Elementary Statistics	3-0
MKT 431	Marketing Management	3-0
FIN 434	Financial Management	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.16
MKT 525	Seminars in Strategic Marketing	3-0
MGT 526	Seminars in Strategic Management	3-0
FIN 568	Investment Analysis	3-0
RES 580	Advance Research Methods in Business	3-0
	Elective I	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.15
Plan A: with Research Work		
	Elective-II	3-0
	Elective-III	3-0
	Elective-IV	3-0
RES 690	Research Thesis	0-6
Plan B: with Course Work		
	Elective-II	3-0
	Elective-III	3-0
	Elective-IV	3-0
	Elective-V	3-0
RES 490	Research Project	0-3

Specialization with List of Electives

Marketing

Course Code	Course Title	Cr. Hrs.
MKT 551	Advance Industrial Marketing	3-0
MKT 545	Brand Management	3-0
MKT 552	Advance International Marketing	3-0
MKT 568	Advertising & Promotional Strategies	3-0
MKT 521	Cyber Marketing	3-0
MKT 564	Integrated Marketing Communication	3-0

Business Analytics

Course Code	Course Title	Cr. Hrs.
BA 501	Advance Business Analytics Tools	2-1
BA 503	Fintech/Data Science for Finance	2-1
BA 505	Marketing Analytics	2-1
BA 507	HR Analytics	2-1
BA 509	Financial Analytics	2-1
BA 511	Applied Time Series Analysis for Forecasting	2-1
BA 513	Data Visualization using Tableau and Power BI	2-1
BA 515	Business Intelligence and Data Warehousing	2-1
BA 517	Programming for Business Using Python	2-1
MGT 500	Operations Research and Optimization	2-1

Tourism & Hotel Management

Course Code	Course Title	Cr. Hrs.
THM 501	Room Division Supervision	3-0
THM 503	Food & Beverage Management	3-0
THM 505	Food & Beverage Production	3-0
THM 506	Understanding Funding & Finance in Tourism & Hospitality	3-0
THM 507	Facilities Management in the Tourism & Hospitality Industry	3-0
THM 509	Customer Relationship Management in the Tourism & Hospitality Industry	3-0
THM 511	Strategic Marketing in the Tourism & Hospitality Industry	3-0
THM 513	International Tourism	3-0
THM 515	Cultural Tourism	3-0
THM 517	Tourism Policy and Planning	3-0
THM 519	Leisure and Recreation Tourism	3-0

Project Management

Course Code	Course Title	Cr. Hrs.
MGT 515	Project Management Framework	3-0
MGT 520	Contracts & Procurement Management	3-0
MGT 523	Project Execution & Control	3-0
MGT 540	NGO Management	3-0
MGT 551	Crisis Management	3-0
MGT 517	Project Planning & Budgeting with Risk	3-0

Supply Chain Management

Course Code	Course Title	Cr. Hrs.
MGT 446	Advanced Supply Chain Management	3-0
MGT 440	IT-Enabled Changes in Supply Chain	2-1
MGT 442	Humanitarian Logistics	3-0
MGT 444	Reverse Logistics	3-0
MGT 447	Building Competitive Operations, Planning and Logistics	3-0
MGT 448	Managing Customer and Supplier Relationship	3-0
MGT 519	Strategic Supply Chain Management	3-0
MGT 521	Quantitative Methods in Production and Logistics	3-0
MGT 522	Innovation Management in Supply Chain & Logistics	3-0

Management (HR, Quality)

Course Code	Course Title	Cr. Hrs.
MGT 547	Organizational Design	3-0
MGT 535	Logistic Management	3-0
MGT 538	Industrial Relations	3-0
HR 536	Small & Medium Enterprise Management	3-0
HR 532	Strategic Human Resource Management	3-0
HR 541	Recruitment & Selection	3-0

Banking & Finance

Course Code	Course Title	Cr. Hrs.
FIN 530	Business Finance	3-0
FIN 535	Advance Financial Management	3-0
FIN 560	Bank Management	3-0
FIN 570	Advance International Banking	3-0
FIN 568	Investment Analysis	3-0
FIN 562	International Finance	3-0
FIN 552	Financial Risk Management	3-0
FIN 611	Derivative Instruments	3-0
FIN 613	Credit Analysis & Investment Banking	3-0

Master of Science in **Management Sciences**

Recognized by Higher Education Commission (HEC)

Program Code	052
Credit Hours	35-38
Plan A: Number of Courses	11 + Research Thesis
Plan B: Number of Courses	13 + Project
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	13th December, 2003

Eligibility Criteria:

Candidates with 16 years of education like (MBA / M. Com / BBS / BBA /BS Commerce / BS Accounting and Finance) with at least 50% marks in annual system or 2.00 CGPA on a scale of 4.00 in semester system are eligible to apply.

Applicants needs to Pass GRE/ HAT/ SU-GAT (General) to be conducted by any registered Testing Agency or University with at least 50% cumulative score and to clear departmental interview at the time of admission.

Program Objectives:

This program aims at enhancing the already acquired knowledge in the field of Marketing, Management, Banking, Finance and Human Resource. With this end in mind, the program is set to have the following objectives:

- To develop and prepare scholars to have substantive knowledge in their area of specialization.
- To cultivate in scholar the culture of creativity and innovations.
- To allow the students have intensive study of various aspects of management particularly the discipline of specialization so that they may be capable of meeting the market demands;.
- To prepare the students to have the potential of facing and addressing market challenges.
- To prepare scholars who could have the ability of understanding and concern for ethical standards in research, teaching, and services.

Program Outcomes:

On the completion of the degree, the scholars would be expected to have:

- Developed substantive knowledge in their area of specialization.
- To have been imbued in a culture of creativity and innovation.
- Acquired intensive understanding of various aspects of management particularly the discipline of specialization so that they may be capable of meeting the market demands.
- To requisite potential of face and address market challenges.
- Developed the ability of understanding and concern for ethical standards in research, teaching, and services.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
MKT 560	Advance Strategic Marketing	3-0
MGT 570	Advance Strategic Management	3-0
FIN 573	Corporate Finance	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.09
RES 580	Advance Research Methods in Business	3-0
	Elective-I	3-0
	Elective-II	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.10
	Elective-III	3-0
	Elective-IV	3-0
	Elective-V	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06-09
Plan A: MS with Research Work		
RES 690	Research Thesis	0-6
Plan B: MS with Course Work		
	Elective-VI	3-0
	Elective-VII	3-0
	Project	0-3

Specialization with List of Electives

Marketing

Course Code	Course Title	Cr. Hrs.
MKT 551	Advance Industrial Marketing	3-0
MKT 545	Brand Management	3-0
MKT 552	Advance International Marketing	3-0
MKT 568	Advertising & Promotional Strategies	3-0
MKT 521	Cyber Marketing	3-0
MKT 564	Integrated Marketing Communication	3-0

Project Management

Course Code	Course Title	Cr. Hrs.
MGT 515	Project Management Framework	3-0
MGT 520	Contracts & Procurement Management	3-0
MGT 523	Project Execution & Control	3-0
MGT 540	NGO Management	3-0
MGT 551	Crisis Management	3-0
MGT 517	Project Planning & Budgeting with Risk	3-0

Banking & Finance

Course Code	Course Title	Cr. Hrs.
FIN 530	Business Finance	3-0
FIN 535	Advance Financial Management	3-0
FIN 560	Bank Management	3-0
FIN 570	Advance International Banking	3-0
FIN 568	Investment Analysis	3-0
FIN 562	International Finance	3-0
FIN 552	Financial Risk Management	3-0
FIN 611	Derivative Instruments	3-0
FIN 613	Credit Analysis & Investment Banking	3-0

Business Analytics

Course Code	Course Title	Cr. Hrs.
BA 501	Advance Business Analytics Tools	2-1
BA 503	Fintech/Data Science for Finance	2-1
BA 505	Marketing Analytics	2-1
BA 507	HR Analytics	2-1
BA 509	Financial Analytics	2-1
BA 511	Applied Time Series Analysis for Forecasting	2-1
BA 513	Data Visualization using Tableau and Power BI	2-1
BA 515	Business Intelligence and Data Warehousing	2-1
BA 517	Programming for Business Using Python	2-1
MGT 500	Operations Research and Optimization	2-1

Management (HR, Quality)

Course Code	Course Title	Cr. Hrs.
MGT 547	Organizational Design	3-0
MGT 535	Logistic Management	3-0
MGT 538	Industrial Relations	3-0
HR 536	Small & Medium Enterprise Management	3-0
HR 532	Strategic Human Resource Management	3-0
HR 541	Recruitment & Selection	3-0

Tourism & Hotel Management

Course Code	Course Title	Cr. Hrs.
THM 501	Room Division Supervision	3-0
THM 503	Food & Beverage Management	3-0
THM 505	Food & Beverage Production	3-0
THM 506	Understanding Funding & Finance in Tourism & Hospitality	3-0
THM 507	Facilities Management in the Tourism & Hospitality Industry	3-0
THM 509	Customer Relationship Management in the Tourism & Hospitality Industry	3-0
THM 511	Strategic Marketing in the Tourism & Hospitality Industry	3-0
THM 513	International Tourism	3-0
THM 515	Cultural Tourism	3-0
THM 517	Tourism Policy and Planning	3-0
THM 519	Leisure and Recreation Tourism	3-0

Supply Chain Management

Course Code	Course Title	Cr. Hrs.
MGT 446	Advanced Supply Chain Management	3-0
MGT 440	IT-Enabled Changes in Supply Chain	2-1
MGT 442	Humanitarian Logistics	3-0
MGT 444	Reverse Logistics	3-0
MGT 447	Building Competitive Operations, Planning and Logistics	3-0
MGT 448	Managing Customer and Supplier Relationship	3-0
MGT 519	Strategic Supply Chain Management	3-0
MGT 521	Quantitative Methods in Production and Logistics	3-0
MGT 522	Innovation Management in Supply Chain and Logistics	3-0

Doctor of Philosophy in Management Sciences

Recognized by Higher Education Commission (HEC)

Program Code	126
Credit Hours	56
Number of Courses	8 + Dissertation
Minimum Duration	6 Semesters, 3 Years
Maximum Duration	16 Semesters, 8 Years
Minimum CGPA Required To Earn Degree	3.00
HEC NOC Issuance Date	13th December, 2003

Eligibility Criteria:

Candidates with 18 years of education like (MS / MPhil in Management Sciences, Commerce, Accounting and Finance, Project Management and Public Administration) with at least 60% marks in annual system or 3.00 CGPA on a scale of 4.00 in semester system are eligible to apply.

Applicants needs to Pass GRE/ HAT/ SU-GAT (General) to be conducted by any registered Testing Agency or University with at least score of 60% cumulative score or and qualify interview to be conducted by the concerned department.

Candidates who have done MS without Research Thesis may be considered for admission in the PhD program only if they submit a published research paper in an HEC recognized Y-Category Journal as a principal author during or after 18 years education as specified above.

Program Objectives:

This Program aims at preparing professionals who are capable of producing impact-ful research, with this end in mind, the program is set to have the following objectives.

- To cause qualitatively improvement in their knowledge of their area of specialization.
- To enable the scholars to master the analytical and mythological skills required to evaluate and conduct research in their area of specialization & related areas.
- To enable them to design and conduct original research in their area of specialization and exhibit the ability to communicate the results of their research in a clear and effective manner.
- To enable them to have the potential to have original and scholarly research to contribute in their area of specialization for the betterment of the related industry and overall society .
- To enable them exhibit an understanding and concern for ethical standards in research, teaching, and services.
- Enable them to demonstrate the ability to undertake independent research projects.

Program Outcomes:

On the completion of the degree, the scholars would be expected to have;

- Developed well defined substantive knowledge in their area of specialization.
- Mastered the analytical and methodological skill required to evaluate and conduct research in their area of specialization and related areas.
- The potential of designing and conducting research in their area of specialization and demonstrate the ability to communicate the result of their research in a clear and effective manner.
- Developed potentials to undertake original and scholarly research to contribute in the specialization for the betterment of the related industry & overall society;
- To required understanding of the implications or ethics in research, teaching , and services.
- The ability to undertake independent research projects.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
RES 804	Independent Research Study I	0-3
RES 745	Social Science Research	3-0
RES 720	Advanced Quantitative Techniques	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.10
RES 806	Independent Research Study II	0-3
RES 705	Qualitative Research Methods	3-0
	Elective-I	3-0
QT 601	Fehm-e-Quran - II	0-1

Semester Three and Onwards:

Course Code	Course Title	Cr. Hrs.09
RES 900	Dissertation	0-9

Electives

Course Code	Course Title	Cr. Hrs.
MGT 743	Developing Management Skills	3-0
MGT 749	Corporate Governance	3-0
MGT 753	Perspectives of Critical Thinking	3-0
MGT 757	Managing Organizational Change	3-0
RES 709	Research Proposal and Thesis Writing	3-0
RES 710	Critical Review of Literature	3-0
MKT 720	Marketing Research	3-0

Note for Scholars:

- Course will be selected from the given list of approved courses in consultation with the Research Advisor.
- The Research Advisor may direct the scholar to register for additional courses related to the area of research.
- Scholar needs to be registered in dissertation of Nine (09) credit hours for each semester for minimum of four (04) semesters.
- Scholar will submit his/her research proposal for approval from BOASAR.
- The scholar shall be required to publish a research paper in an HEC recognized journal before the public defense of the PhD dissertation.
- University Rules and Regulations for Post Graduate Degrees will be applicable.
- *HEC quality criteria will be applicable.

Faculty of Arts, Social Sciences & Education

Department of Education
Department of Library & Information Sciences
Department of Sports Sciences & Physical Education
Department of Humanities
Department of Urdu

Department of **Education**

Vision

To acquire excellence through Pragmatic Learning, Essential Education and Quality Research.

Mission

To promote Quality Teaching through uplifting Pedagogical Proficiencies, Managerial Expertise and Research Competencies.

Programs Offered:

- Master of Philosophy in **Education**
- Doctor of Philosophy in **Education**

Faculty Members, Department of Education

Prof. Dr. Khisro Kaleem Raza
Head of Department,
Ph.D Education,
University of Peshawar

Dr. Wasal Khan
Professor,
Ph.D Education,
Sarhad University, Peshawar

Dr. Abdul Wadood
Associate Professor,
Ph.D Education,
Qurtuba University, Peshawar

Dr. Ahsan-Ur-Rehman
Assistant Professor,
Ph.D Education,
Qurtuba University, DI Khan

Dr. Mufti Kifayat Ullah
Assistant Professor,
Ph.D Islamic Studies,
AWKUM

Mr. Hazrat Bilal
Lecturer / Coordinator,
M.Phil Education,
Abasyn University, Peshawar

Master of Philosophy in **Education**

Recognized by Higher Education Commission (HEC)

Program Code	064
Credit Hours	32
Number of Courses	10 + Research Thesis
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.00
HEC NOC Issuance Date	13th December, 2003

Eligibility Criteria:

Candidates having 16 years of education (BS Education/B.Ed 1.5/M.A Education /M.Ed /MA EPM etc.) with 2.00 CGPA on the scale of 4.00 in semester system or at least 50% marks in annual system from any recognized institute/university are eligible to apply.

Applicants need to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of admission.

Program Objectives:

The objectives of the program are to;

- Gain an insight and an in-depth knowledge.
- Critique, diagnose and examine the theories and the concepts to judge and make assessment in the field of Education.
- Identify and formulate problems and to approach problem resolution through research.
- Relate diverse ideas, integrate and synthesize these with facts for quality education.

Program Outcomes:

After completion of M.Phil program, the scholar will be able to:

- Apply different theories of Education practically.
- Identify and rectify different Social & Educational problems.
- Demonstrate excellent oral and written communication skills.
- Contribute for the enhancement of moral, social, religious, cultural and ideo logical values.
- Practice the administrative and managerial skills in educational organizations.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs. 13
EDU 611	Trends & Issues in Education	3-0
EDU 604	Educational Leadership	3-0
RES 581	Research Methodology	3-0
	Elective-I	
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs. 13
EDU 742	Teacher Education	3-0
	Elective-II	3-0
	Elective-III	3-0
	Elective-IV	3-0
QT 601	Fehm-e-Quran - II	0-1

3rd & 4th Semester

Course Code	Course Title	Cr. Hrs.06
RES 690	Research Thesis	0-6

Electives

Course Code	Course Title	Cr. Hrs.08
EDU 612	Learning and Learning Theories	3-0
EDU 625	Test Development & Evaluation	3-0
EDU 723	Curriculum Development & Text Book Production	3-0
EDU 609	Educational Policies and their Analysis	3-0
EDU 610	Economics and Financing of Education	3-0
EDU 703	Planning & Population Education	3-0
EDU 605	Applied Educational Technologies	3-0
EDU 545	Environmental Education	3-0
EDU 569	Distance & Non Formal Education	3-0
EDU 627	Science Education	3-0
EDU 629	Online Education	3-0

Doctor of Philosophy in **Education**

Recognized by Higher Education Commission (HEC)

Program Code	130
Credit Hours	56
Number of Courses	8 + Dissertation
Minimum Duration	6 Semesters, 3 Years
Maximum Duration	16 Semesters, 8 Years
Minimum CGPA Required To Earn Degree	3.00
HEC NOC Issuance Date	13th December, 2003

Eligibility Criteria:

Candidates having 18 years of education (MS/M.Phil degree in Education) with 3.00 CGPA on the scale of 4.00 in semester system or at least 60% marks in annual system from any recognized institute/university are eligible to apply.

Candidates needs to pass GRE/ HAT/ SU-GAT (General) conducted by any Registered Testing Agency or University with at least 60% cumulative score and qualify interview to be conducted by the concerned department.

Candidates who have done MS without Research thesis may be considered for admission in the PhD program if they submit a published paper in an HEC recognized journal as a Principal Author.

Program Objectives:

The objectives of the program are to;

- Establish core of specialists for leadership in planning, development, management and evaluation of educational programs.
- Develop personal competence and skills in the field of Education to meet present and future needs and challenges.
- Demonstrate intellectual contribution to the treasury of knowledge in the field of education by effective application of vision gained.

Program Outcomes:

After completion of PhD program, the scholar will be able to:

- Apply different theories of Education practically.
- Develop and design curricula for different levels.
- Identify and rectify different Social & Educational problems.
- Demonstrate excellent oral and written communication skills.
- Contribute for the enhancement of moral, social, religious, cultural and ideological values.
- Practice the administrative and managerial skills in educational organizations.
- Address quality research for educational excellence.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
EDU 810	Human Resource Management in Education	3-0
EDU 812	Quality Assurance in Education	3-0
EDU 814	Advance Statistical Methods in Education	3-0
QT 701	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.10
	Elective-I	3-0
	Elective-II	3-0
	Elective-III	3-0
QT 801	Fehm-e-Quran - II	0-1

3rd Semester onwards

Course Code	Course Title	Cr. Hrs.09
RES 900	Dissertation	0-9

Note for Scholars:

- Course will be selected from the given list of approved courses in consultation with the Research Advisor.
- The Research Advisor may direct the scholar to register for additional courses related to the area of research.
- Scholar needs to be registered in dissertation of Nine (09) credit hours for each semester for minimum of four (04) semesters.
- Scholar will submit his/her research proposal for approval from BOASAR.
- The scholar shall be required to publish a research paper in an HEC recognized journal before the public defense of the PhD dissertation.
- University Rules and Regulations for Post Graduate Degrees will be applicable.
- *HEC quality criteria will be applicable.

Specialization with List of Electives

Special Education

Course Code	Course Title	Cr. Hrs.
EDU 821	Exceptionalities	3-0
EDU 827	Planning and Rehabilitation for Exceptional Youth	3-0
EDU 833	Inclusive Education	3-0

Curriculum Studies

Course Code	Course Title	Cr. Hrs.
EDU 824	Curriculum Development	3-0
EDU 830	Curriculum Design	3-0
EDU 836	Evaluation of Curriculum	3-0

Educational Planning, Management and Leadership

Course Code	Course Title	Cr. Hrs.
EDU 822	Personnel Management in Education	3-0
EDU 828	Educational Planning & Management	3-0
EDU 834	Organizational Behavior in Education	3-0

Distance and Virtual Education

Course Code	Course Title	Cr. Hrs.
EDU 825	Virtual Learning	3-0
EDU 831	Instructional Design	3-0
EDU 837	Life Long Education	3-0

Elementary Teaching Education

Course Code	Course Title	Cr. Hrs.
EDU 823	Elementary Teacher Education	3-0
EDU 829	Elementary Education & Globalization	3-0
EDU 835	Management of Elementary Education	3-0

Educational Psychology

Course Code	Course Title	Cr. Hrs.
EDU 826	Psychological Testing	3-0
EDU 832	Metacognitism and Constructivism	3-0
EDU 838	Applied Cognition and Development	3-0

Department of **Library & Information Sciences**

Vision

The Department envisions a society in which library and information professionals design and manage systems and services that benefit individuals, groups, communities and organizations.

Mission

To educate, empower, and transform the lives of LIS students with an educational foundation that addresses the theories, history, ethics, values and technologies associated with the information professions.

Programs Offered:

- Master of Science in **Library & Information Sciences**

Faculty Members:

Syed Arif Ali Shah
Head of Department / Asst. Professor,
MS Library & Information Sciences,
Sarhad University, Peshawar

Dr. Bibi Abida Hussain
Assistant Professor,
Ph.D Library Science,
University of Wuhan, China

Dr. Shehzad Ahmad,
Assistant Professor,
Ph.D Library & Information Sciences,
University of Punjab

Mr. Muhammad Ibrahim
Assistant Professor,
MS Library & Information Sciences,
Sarhad University, Peshawar

Dr. Saima Hanif,
Assistant Professor,
Ph.D Information Management,
University of Punjab

Master of Science in **Library & Information Sciences**

Recognized by Higher Education Commission (HEC)

Program Code	115
Credit Hours	32
Plan A: Number of Courses	10 + Research Thesis
Plan B: Number of Courses	11 + Project
Plan C: Number of Courses	12
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	1st March, 2013

Program Objectives:

- Prepare the professional librarians in the discipline of Library and Information Sciences with research skills.
- Leadership qualities will be developed in the librarians to face traditional and obsolete methods.
- Prepare the prospective Librarians and Knowledge Managers to play their role in the enhancement of literacy rate in the country.
- Further compete and contribute in the field of Library and Information discipline in effective manner by creating new techniques in their fields.

Eligibility Criteria:

Candidates having 16 years of education in Library and Information Sciences with 2.00 CGPA on the scale of 4.00 in semester system or at least 50% marks in annual system from any recognized institute/university are eligible to apply.

Applicants need to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of admission.

Program Outcomes:

After completion of MS program scholars will be able to:

- Apply knowledge of Library and Information Science into the field with respect to print and non-print formats of information resources.
- Assess collection development policy and bibliographical control in the light of prevailing laws in the country.
- Apply latest cataloguing codes to compile bibliographic entries of library collection.
- Locate, retrieve, evaluate and disseminate information and information sources and reference services by applying latest statistical tools.
- Apply principles of library management and demonstrate leadership abilities.

  Apply relevant research methods to problem solving.
- Analyze tools and practices of information technology.
- Apply manual and machine readable classification and cataloguing tools.
- Demonstrate and develop Library Resource Sharing and Networking.
- Understand information sources and information cycle of disciplines of Social Sciences and Humanities.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.12
SLI 511	Theoretical Foundations of Library Science	3-0
SLI 513	Leadership: Theory and Practice	3-0
SLI 515	Intellectual Property Rights	3-0
SLI 517	Seminar in Library & Information Sciences	3-0

2nd Semester

Course Code	Course Title	Cr. Hrs. 10
SLI 625	Education for Library and Information Sciences	3-0
	Elective-I	3-0
	Elective-II	3-0
QT 501	Fehm-e-Quran - I	0-1

3rd Semester

Course Code	Course Title	Cr. Hrs.04
RES 581	Research Methodology	2-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs.06
Plan A : MS with Research Work		
RES 690	Research Thesis	0-6
Plan B : MS with Project Work		
	Elective-III	3-0
	Project	0-3
Plan C: MS with Course Work		
	Elective-III	3-0
	Elective-IV	3-0

Electives

Course Code	Course Title	Cr. Hrs.
SLI 627	Development of Library and Information Sciences in Pakistan	3-0
SLI 628	Human Resource Management in Library and Information Centres	3-0
SLI 629	Global Perspective in Library and Information Sciences	3-0
SLI 630	User Education	3-0
SLI 631	Information Behavior	3-0
SLI 623	Advanced Statistical Methods	3-0

Department of
Sports Sciences & Physical Education

Vision

The basic motto for the establishment of Department of Sports Sciences & Physical Education, Sarhad University is to bridge the gap of supply & demand of Sports Sciences & Physical Education professionals across the country and to become the leading seat of learning in the region.

Mission

To develop and initiate quality Physical Education programs that duly emphasize meaningful participation in Physical activities; to help the students to develop the knowledge, attitude, motor skills, social skills and confidence needed to begin and maintain a healthy and physically active lifestyle for rest of their life.

Programs Offered:

- Master of Science in **Sports Sciences & Physical Education**
- Doctor of Philosophy in **Sports Sciences & Physical Education**

Faculty Members, Department of Sports Sciences & Physical Education

Prof. Dr. Abdul Waheed Mughal
Dean, Faculty of Arts, Social Sci. & Edu.
Ph.D Sports Sciences,
University of Leipzig, Germany

Dr. Ashiq Muhammad
Assistant Professor,
Ph.D Sports Sciences & Physical Edu.,
Gomal University, D.I Khan

Mr. Khalid Zaman
Lecturer,
MS Sports Sciences & Physical Edu.,
Sarhad University, Peshawar

Mr. Ishtiaq Khan
Assistant Professor,
MS Management Sciences,
Sarhad University, Peshawar

Mr. Ubaid Ullah Mughal
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Sarhad University Peshawar

Dr. Irfan Ullah
Assistant Professor,
Ph.D Sports Sciences & Physical Edu.,
Gomal University, D.I Khan

Dr. Khalid Usman
Assistant Professor,
Ph.D Sports Sciences & Physical Edu.,
Gomal University, D.I Khan

Mr. Farid Usman
Assistant Professor,
Ph.D Sports Sciences & Physical Edu.,
Gomal University, D.I Khan

Mr. Imran Ullah
Lecturer,
MPhil Sports Sciences & Physical Edu.,
Gomal University D.I Khan

Dr. Inayat Shah
Assistant Professor,
MBBS, Ph.D Sports Physiology,
University of Glosgow, UK

Dr. Hazrat Ullah
Assistant Professor,
Ph.D Sports Sciences & Physical Edu.,
Gomal University, D.I Khan

Mr. Ashfaq Ali Khattak
Assistant Professor,
MS Sports Sciences & Physical Edu.,
Sarhad University, Peshawar

Mr. Ghulam Mustafa
Lecturer,
MS Sports Sciences & Physical Edu.,
Sarhad University Peshawar

Master of Science in **Sports Sciences & Physical Education**

Recognized by Higher Education Commission (HEC)

Program Code	047
Credit Hours	35/38
Plan A: Number of Courses	11 + Research Thesis
Plan B: Number of Courses	13 + Project
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	1st March, 2013

Eligibility Criteria:

Candidates having 16 years of education in (MA/MSc-HPE / BS SSPE, or an equivalent degree) with 2.00 CGPA on the scale of 4.00 in semester system or at least 50% marks in annual system from any recognized institute/university.

Applicants need to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of admission.

Program Objectives:

The objectives of the program are to;

- Nurture graduates who are self-reliant and life-long learners that model healthy behaviours both personally and professionally, through effective and innovative teaching, research, and service with a clear focus on health and physical education.
- Develop academic programs and conduct research in school health, empower the role of teachers in health promotion and maintenance, provide academic opportunities for health professionals in health education, and develop strategic programs to expand and extend the role of PE teachers.
- Promote the knowledge and broaden the minds of scholars, foster collaborations with other institutes and enable scholars to take best advantage of their educational opportunities.
- Strengthen physical education program in order to develop and reinforce cooperative behavior among the scholars of physical education.
- Encourage lifelong health through physical education program among the scholars and other members of the community.

Program Outcomes:

After completion of the program, scholars will be able to;

- Develop research aptitude in Sports Science & Physical Education through assignments, projects, presentations, workshops and seminars.
- Behave like a model among scholars, sportsmen & society at large.
- Apply principles, analytical methods, and best practices for designing, implementing, and evaluating health and sports promoting activities.
- Demonstrate personal behaviours that exemplify professionalism among the Sports Community.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
SSS 520	Planning and Development of Sports Facilities	3-0
SSS 522	Theories, Methods and Planning of Training	3-0
RES 581	Research Methodology	3-0
QT 501	Fehm-e-Quran - I	0-1

2nd Semester

Course Code	Course Title	Cr. Hrs.09
SSS 524	Advanced Test, Measurement & Evaluation in Physical Education	3-0
SSS 528	Nutrition and Athletic Performance	3-0
	Elective-I	3-0

3rd Semester

Course Code	Course Title	Cr. Hrs.10
	Elective-II	3-0
	Elective-III	3-0
	Elective-IV	3-0
QT 601	Fehm-e-Quran - II	0-1

4th Semester

Course Code	Course Title	Cr. Hrs. 06 / 09
Plan A : MS with Research Work		
RES 690	Research Thesis	0-6
Plan B : MS with Course Work		
	Elective-V	3-0
	Elective-VI	3-0
	Project	0-3

Electives

Course Code	Course Title	Cr. Hrs.08
SSS 604	Leadership: Theory & Practice	3-0
SSS 610	Computer Applications in Physical Education	3-0
SSS 613	Media Management & Sports Marketing	3-0
SSS 623	Special Education	3-0
SSS 631	Motor Control and Motor Learning	3-0
SSS 630	Sports Medicine	3-0
SSS 633	Sports and Exercise Psychology	3-0
SSS 634	Motor Control Learning & Behavior	3-0
SSS 625	Curriculum Development and Text Book Production	3-0
SSS 637	Biomechanical Analysis in Sports	3-0

Doctor of Philosophy in **Sports Sciences & Physical Education**

Recognized by Higher Education Commission (HEC)

Program Code	235
Credit Hours	56
Number of Courses	9 + Dissertation
Minimum Duration	6 Semesters, 3 Years
Maximum Duration	16 Semesters, 8 Years
Minimum CGPA Required To Earn Degree	3.00
HEC NOC Issuance Date	5th December, 2023

Eligibility Criteria:

Candidates having 18 years of education (MS/M.Phil degree in relevant education) with 3.00 CGPA on the scale of 4.00 in semester system or at least 60% marks in annual system from any recognized institute/university are eligible to apply.

Candidates needs to pass GRE/ HAT/ SU-GAT (General) conducted by any Registered Testing Agency or University with at least 60% cumulative score and qualify interview to be conducted by the concerned department.

Candidates who have done MS without Research thesis may be considered for admission in the PhD program if they submit a published paper in an HEC recognized journal as a Principal Author.

Program Objectives:

The PhD program will have the following objectives to be achieved:

- Generating professional development in sports discipline
- Identify and explain new trends in sports
- Explaining issues in sports by critical thinking and problem-solving skills
- Evaluating current research practices in sports by:
  a) Formulating and summarizes sports-related research that integrates knowledge and experience with existing theories
  b) Developing advanced-level skills of quantitative and qualitative research methodologies used in the sports field.
- Produce collaborative learners who proceed with their professional development and able to use their abilities to contribute to the sports profession.

Program Outcomes:

The program aims to stimulate critical and analytical thinking for the people who want to do work in public and private institutes specifically in sports sciences and physical education departments as well as in all sports organizations. The program focuses on the latest innovative theories and practices in sports.

Through this program, people will be equipped with a different set of valuable skills that will help them in their future careers. Some of the skills that could be developed include:

i. Interpersonal skills
ii. Athletic Performance analysis
iii. Evaluating Physical fitness
iv. Coaching
v. Research

This program leads itself to a wide range of careers in sports coaching, administration, and fitness as well as other industries in the market such as:

i. Sports Science and Physical Education Teaching
ii. Professional Sports person/Consultant
iii. Developing Sports policy at the Local and National level
iv. Director Sports in Sports Organization/Institutes

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs.10
SSS 700	Fitness and Wellness	3-0
SSS 700L	Fitness and Wellness (Lab)	0-1
SSS 702	Advanced Measurement and Evaluation in Physical Education	3-0
SSS 702L	Advanced Measurement and Evaluation in Physical Education (Lab)	0-1
SSS 705	Adapted Physical Education	1-0
QT 701	Fehm-e-Quran - I	0-1
RES 741	Research Methodology (non credit)	2-0

2nd Semester

Course Code	Course Title	Cr. Hrs.10
SSS 801	Sports Physiotherapy& Rehabilitation	1-0
SSS 801L	Sports Physiotherapy& Rehabilitation (Lab)	0-1
SSS 803	Science of Sports Coaching	2-0
SSS 803L	Science of Sports Coaching (Lab)	0-1
RES 805	Research Tools	0-1
	Elective-I	3-0
QT 801	Fehm-e-Quran - II	0-1

Semester 3rd and onwards

Course Code	Course Title	Cr. Hrs.09
RES 900	Dissertation	0-9

List of Electives

Course Code	Course Title	Cr. Hrs.
SSS 812	Applied Sports & Exercise Psychology	3-0
SSS 814	Sports Education	3-0
SSS 816	Leadership in Sports	3-0
SSS 810	Advanced Sports Medicine	3-0

Note for Scholars:

- Course will be selected from the given list of approved courses in consultation with the Research Advisor.
- The Research Advisor may direct the scholar to register for additional courses related to the area of research.
- Scholar needs to be registered in dissertation of Nine (09) credit hours for each semester for minimum of four (04) semesters.
- Scholar will submit his/her research proposal for approval from BOASAR.
- The scholar shall be required to publish a research paper in an HEC recognized journal before the public defense of the PhD dissertation.
- University Rules and Regulations for Post Graduate Degrees will be applicable.
- *HEC quality criteria will be applicable.

Department of **Humanities**

Vision

To foster critical thought, ethical insight, and global understanding through interdisciplinary study of religion, politics, society, and international affairs.

Mission

The Department of Humanities advances interdisciplinary education and research that empower students to critically examine the complexities of religion, politics, society, and international affairs. Through innovative teaching, ethical inquiry, and global engagement, we prepare individuals to become thoughtful scholars, responsible citizens, and compassionate leaders in an interconnected world.

Program Offered:

- Master of Philosophy in Islamic Studies

Faculty Members, Department of Humanities

Dr. Mufti Kifayat Ullah
Head of Department / Asst. Professor,
Ph.D Islamic Studies,
AWKUM

Mr. Fahad Ali Khan
Lecturer,
MPhil Political Science,
University of Peshawar

Dr. Saif Ullah Khan
Assistant Professor,
Ph.D Islamic Studies,
Qurtuba University, Peshawar

Dr. Dilawar Khan
Associate Professor,
Ph.D International Relations,
Preston University, Karachi

Master of Philosophy in **Islamic Studies**

Recognized by Higher Education Commission (HEC)

Program Code	284
Credit Hours	32
Number of Courses	10 + Research Thesis
Minimum Duration	4 Semesters, 2 Years
Maximum Duration	8 Semesters, 4 Years
Minimum CGPA Required To Earn Degree	2.50
HEC NOC Issuance Date	Applied to HEC for NOC

Program Objectives:

The MPhil Islamic Studies program aims to:

- Equip students with deep, critical, and analytical knowledge of key Islamic disciplines including Quran, Hadith, Fiqh, Seerah, and related fields.
- Train students in advanced research methodologies relevant to Islamic studies, enabling them to conduct original research and contribute to academic discourse.
- Encourage scholarly engagement with historical, intellectual, and contemporary challenges facing the Muslim world using Islamic intellectual tradition and modern analytical tools.
- Prepare graduates to serve as educators, researchers, and thought leaders who can provide informed guidance grounded in Islamic teachings and scholarly integrity.

Eligibility Criteria:

Candidates having MA Islamic Studies or BS in the field of Islamic Studies with 2.00 CGPA on the scale of 4.00 in semester system or at least 50% marks in annual system from any recognized institute / university.

Candidates having Shahadat-ul-Almia equivalence are also eligible to apply for MPhil Islamic Studies program.

Applicants need to pass GRE/ HAT/ SU-GAT (General) to be conducted by any Registered Testing Agency or University, with at least 50% cumulative score and to clear departmental interview at the time of admission.

Program Outcomes:

Upon successful completion of the MPhil Islamic Studies program, scholars will be able to:

- Analyze and interpret primary Islamic texts and classical scholarship in Quran, Hadith, Fiqh, and other major areas using appropriate academic and methodological tools.
- Conduct independent research using qualitative and/or quantitative research methods, culminating in a well-argued and properly documented thesis or research project.
- Engage critically with Orientalist discourse, modern challenges to Islamic thought, and diverse interpretations within the Islamic tradition.
- Present well-structured, coherent arguments in both oral and written form, suitable for academic, educational, or community settings, and contribute to scholarly discussions on Islam.

Scheme of Studies

1st Semester

Course Code	Course Title	Cr. Hrs. 13
RES 580	Advance Research Methodology	3-0
QT 501	Fahm-e-Quran-I	0-1
IS 501	Ijtihad: History, Principles and Methods	3-0
IS 507	Quran & Uloom al Quran	3-0
	Elective-I	3-0

2nd Semester

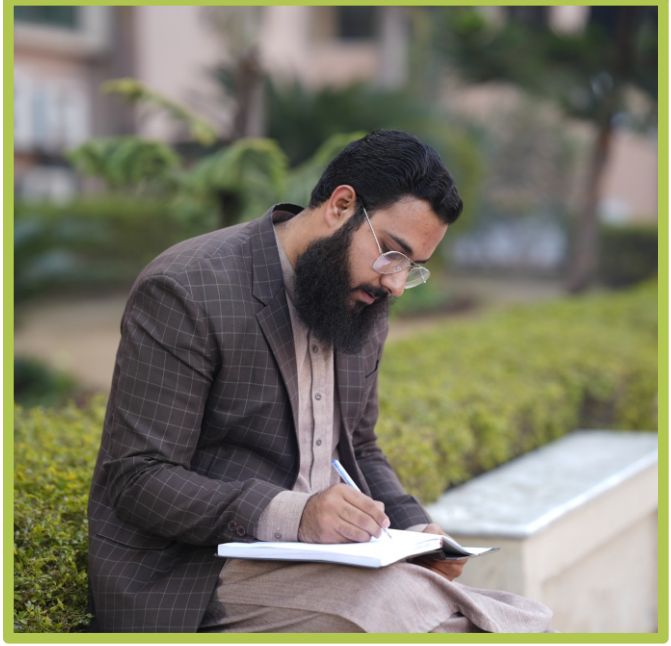
Course Code	Course Title	Cr. Hrs. 13
IS 503	Orientalism: Critical Study	3-0
QT 601	Fahm-e-Quran-II	0-1
IS 505	Seerat ul Nabi & Fiqh al Seerah	3-0
IS 513	Fiqh and its Principles	3-0
	Elective-II	3-0

Semester 3rd and 4th

Course Code	Course Title	Cr. Hrs. 06
RES 690	Thesis	0-6

List of Electives

Course Code	Course Title	Cr. Hrs.
IS 509	Hadith and Uloom ul Hadith	3-0
IS 601	Usool ul Takhreej	3-0
IS 603	Arabic Language and Literature	3-0
IS 605	Study of World Religions	3-0
IS 609	Islamic Economic and Finance	3-0
IS 611	Uloom ul Seerah	3-0



شعبۂ اُردو

ضرورت واہمیت:

- اُردو پاکستان کی قومی زبان ہے اور کوئی ملک اپنی قومی زبان سے صَرفِ نظر نہیں کرسکتا۔ قومی زبان علاقائی فرق کو مٹا کر پورے ملک کو ایک وحدت کی لڑی میں پروتی ہے اس لیے قومی زبان نہ صرف پورے ملک کے رابطے کی زبان ہوتی ہے بلکہ قومی وحدت اور اتحاد کا ایک بڑا ذریعہ بھی ہوتی ہے۔
- زبان انسان کے افکار، خیالات، تصوّرات، جذبات واحساسات کے اظہار کا ذریعہ ہے۔ اور اس میں مہارت کے حصول سے اغراض کی وجہ سے وہ اپنے علم، افکار اور تجربات کا صحیح اظہار نہیں کرسکتا۔ اُردو پڑھانے اور بولنے کا مقصد یہی ہے کہ طلبا اس زبان میں مسلسل اور مربوط طریق پر خوب صورت گفتگو کرسکیں۔ اردو زبان میں مہارت خود اُردو ہی کے نقطۂ نظر سے نہیں دوسرے علوم کی تفہیم وترقی کے لحاظ سے بھی ضروری ہے۔
- پاکستان ایک اسلامی ملک ہے۔ ہمارے لیے یہ امر باعث اطمینان ومسرّت ہے کہ دنیا کی دیگر زبانوں کی بہ نسبت سب سے زیادہ اسلامی ادب اور مواد، اُردو زبان میں شائع ہو چکا ہے اور شائع ہو رہا ہے۔ پاکستان کے مسلمانوں کے لیے اسلامی ادب سے خاطر خواہ شناسائی ہر اعتبار سے ضروری ہے۔ اس نظر سے دیکھیں تو اُردو زبان کی تعلیم کی ضرورت واہمیت سے انکار نہیں کیا جاسکتا۔

مقاصد:

- کسی بھی زبان کا ادب اس خطے کی تہذیب، ثقافت اور اقدار کا نمائندہ ہوتا ہے۔ لہٰذا اُردو کی تدریس کے ذریعے طالب علموں کو اپنی اقدار اور ثقافت سے روشناس کرانا پیشِ نظر ہے۔
- طالب علموں کے لیے زبان وادب کے مضامین کے علاوہ ایسے مضامین کی تدریس کا بھی اہتمام کیا گیا ہے جن کی تحصیل سے وہ عملی زندگی کے مختلف شعبوں میں اپنی صلاحیتوں کو آزما سکیں اور ان کی معاشی ضروریات کو پورا کرسکیں۔

پروگرام پیشکش:

ایم فل اُردو

پی ایچ ڈی اُردو

Faculty Members, Department of Urdu

Dr. Ghuncha Begum
Head of Department / Associate Prof.,
Ph.D Urdu,
University of Peshawar

Dr. Muhammad Nasir Afridi
Assistant Professor ,
Ph.D Urdu,
Sarhad University, Peshawar

Mr. Naveed Akhtar
Lecturer,
MPhil Urdu,
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Dr. Muhammad Imtiaz
Professor / Coordinator,
Ph.D Urdu,
University of Peshawar

Dr. Rubina Yasmeen
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Ph.D Urdu,
GCWU, Faisalabad

Dr. Mian Humayun
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Ph.D Urdu,
Govt. College University, Lahore

Mr. Ubaid Bazigh
Lecturer,
MPhil Urdu,
Sarhad University, Peshawar

ایم فل اُردو

ہائیر ایجوکیشن کمیشن سے منظور شدہ۔

پروگرام کوڈ	:	132
کل تدریسی گھنٹے	:	32
مضامین کی تعداد	:	10+ (Research Work / Dissertation) تحقیقی مقالہ
کم از کم دورانیہ	:	4 سمسٹرز 2 سال
زیادہ سے زیادہ دورانیہ	:	8 سمسٹرز 4 سال

ڈگری کے حصول کے لیے کم از کم **CGPA 2.50** حاصل کرنا ضروری ہے

معیارِ اہلیت:

اُمیدوار نے کسی بھی مستند یونیورسٹی سے ایم اے اُردو سیکنڈ ڈویژن سے پاس کیا ہو، یا بی ایس اُردو میں 2.5/4.00 CGPA حاصل کیا ہو۔ یا متعلقہ مضمون میں سولہ سال تعلیم سیکنڈ ڈویژن سے پاس کیا ہو۔

اس کے علاوہ General Test (GRE/HAT/SU-GAT) کسی بھی رجسٹرڈ ٹیسٹنگ ایجنسی یا یونیورسٹی کے اپنے ٹیسٹ میں 50% نمبروں سے پاس ہونا لازمی ہے۔ نیز شعبۂ اُردو کے انٹرویو میں کامیابی حاصل کی ہو۔

مقاصد :

- اُردو پاکستانی کی قومی زبان ہے اور کوئی قوم اپنی قومی زبان اور تہذیبی ورثہ سے صرفِ نظر نہیں کر سکتی۔
- اُردو زبان وادب کے ذریعے طلباء میں حصولِ علم و تحقیق کا جذبہ پیدا کرنا، تاکہ اُن کی پیشہ وارانہ صلاحیتوں میں اضافہ ہو سکے۔
- اُردو زبان وادب میں پاکستانی قوم کی تہذیبی زندگی اور تاریخی سرمایہ محفوظ ہے۔ طلباء کو اس سرمایے سے آگاہ کرنا تاکہ وہ تاریخ کے تاریکیوں کو روشنی عطا کر کے اپنے مستقبل کو روشن کر سکیں۔

حاصلاتِ تعلم :

- طلباء اُردو زبان وادب کے آغاز وارتقاء کے بارے میں جان لیں گے۔
- ایم فل اُردو کی ڈگری کے حصول کے بعد طلباء میں عمومی اور خصوصی تحقیقی رجحان پیدا ہو جائے گا۔
- طلباء عملی زندگی کے مختلف شعبوں میں اپنی صلاحیتوں کا اظہار بطریق احسن کر سکیں گے۔
- ایم فل اُردو ڈگری کے بعد طلباء کو قومی، اور بین الاقوامی ابلاغِ عامہ، ثقافتی، اور تعلیمی اداروں میں ملازمت کے بہترین مواقع فراہم ہو سکیں گے۔

Scheme of Studies

پہلا سمسٹر

تدریسی گھنٹے: 13	مضمون کا نام	کورس کوڈ
3-0	اِملا، رسم الخط اور تلفّظ کے مباحث و مسائل (لازمی)	URD 510
3-0	لسانیات (لازمی)	URD 512
3-0	علمِ بیان و بدیع (لازمی)	URD 514
3-0	ترجمہ: اُصول اور اُردو میں ترجمہ کی روایت (لازمی)	URD 525
0-1	فہمِ قرآن (حصہ اوّل) (لازمی)	QT 501

دوسرا سمسٹر

تدریسی گھنٹے: 13	مضمون کا نام	کورس کوڈ
3-0	تحقیق کے اُصول و لوازم (لازمی)	URD 518
3-0	عملی تنقید (لازمی)	URD 530
3-0	اختیاری-I	
3-0	اختیاری-II	
0-1	فہمِ قرآن (حصہ دوم) (لازمی)	QT 601

تیسرا اور چوتھا سمسٹر

تدریسی گھنٹے: 06	مضمون کا نام	کورس کوڈ
0-6	تحقیقی مقالہ (Research Work / Dissertation)	URD 690

اختیاری مضامین

اختیاری مضامین میں سے دو کا انتخاب کرنا ہوگا۔

تدریسی گھنٹے:	مضمون کا نام	کورس کوڈ
3-0	ادب اور تاریخ (اختیاری)	URD 601
3-0	لغت نویسی کا فن اور اُردو میں لغت نویسی کی روایت (اختیاری)	URD 620
3-0	اُصول تدوین و ترتیبِ متن (اختیاری)	URD 513
3-0	معاصر نثری ادب (اختیاری)	URD 533
3-0	ادبیاتِ خیبر پختونخوا، اُردو (اختیاری)	URD 607
3-0	دفتری اُردو (اختیاری)	URD 630

پی ایچ ڈی اُردو

ہائیر ایجوکیشن کمیشن سے منظور شدہ۔

پروگرام کوڈ	:	136
کل تدریسی گھنٹے	:	56
مضامین کی تعداد	:	تحقیقی مقالہ + 8
کم از کم دورانیہ	:	6 سمسٹرز 3 سال
زیادہ سے زیادہ دورانیہ	:	16 سمسٹرز 8 سال

ڈگری کے حصول کے لیے کم از کم **CGPA 3.00** حاصل کرنا ضروری ہے

معیارِ اہلیت:

اس پروگرام میں داخلے کا طریقہ کار، سرحد یونیورسٹی اور ہائر ایجوکیشن کمیشن پاکستان کے قواعد وضوابط کے مطابق ہوگا۔

اس پروگرام میں داخلے کے لیے وہ اُمیدوار اہل ہوں گے جنھوں نے ایم فل اُردو یا متعلقہ مضمون میں اٹھارہ سال تعلیم میں 3.00CGPA حاصل کیا ہو، یا سالانہ امتحانی نظام پر جہاں پر نمبرات کا حساب 4.00 CGPA کی سطح پر C G P A میں نہ ہو، میں فرسٹ ڈویژن حاصل کیا ہو۔ یا وہ اُمیدوار جس نے دورانِ ایم فل تحقیقی مقالہ کی جگہ دو (۲) اضافی مضامین (6 کریڈٹ آورز) پڑھے ہوں اور اس کے ساتھ ہائر ایجوکیشن کمیشن پاکستان کے کسی منظور شدہ تحقیقی مجلّے میں ایک تحقیقی مضمون شائع کرایا ہو۔

اس کے علاوہ GRE/HAT/SU-GAT) Subject Test) یا کسی بھی رجسٹرڈ ٹیسٹنگ ایجنسی یا یونیورسٹی کے اپنے ٹیسٹ میں 60% نمبروں سے پاس ہونا لازمی ہے۔

نیز شعبۂ اُردو کے انٹرویو میں کامیابی حاصل کی ہو۔

مقاصد:

- فکرِ امروز اور فکرِ فردا، صرف تنقید و تحقیق ہی سے ممکن ہے، لہٰذا طلباء میں تہذیبی اور تاریخی شعور پیدا کرنا۔
- تحقیقی رجحان اور کلچر کو فروغ دینا۔
- اُردو زبان و ادب کے ذریعے طلباء میں حصولِ علم و تحقیق کا جذبہ پیدا کرنا، تاکہ اُن کی پیشہ وارانہ صلاحیتوں میں اضافہ ہو سکے۔
- طلباء کو اپنی قومی زبان اُردو اور ادب میں اعلیٰ تعلیم کے مواقع فراہم کرنا۔
- پی ایچ ڈی اُردو ڈگری کے بعد طلباء کو قومی، اور بین الاقوامی ابلاغِ عامہ، ثقافتی، اور تعلیمی اداروں میں ملازمت کے بہترین مواقع فراہم ہو سکیں گے۔

حاصلاتِ تعلّم:

- طلباء نہ صرف تحقیق کے عمومی بلکہ خصوصی طریقِ کار سے آگاہ ہو سکیں گے اور پی ایچ ڈی ڈگری کے حصول کے بعد ان میں تحقیق کا مادہ بھی پیدا ہو گا۔
- پی ایچ ڈی سکالرز اپنی تحقیق سے اپنے شعبے اور معاشرے کو فائدہ پہنچا سکیں گے۔
- طلباء کی پیشہ وارانہ صلاحیتوں میں اضافے کے ساتھ ساتھ ان کے علم میں مزید پختگی اور نکھار پیدا ہو جائے گا۔
- پی ایچ ڈی ڈگری کے حصول کے بعد طلباء کو قومی، اور بین الاقوامی جامعات، ابلاغِ عامہ، ثقافتی، اور تحقیقی اداروں میں ملازمت کے بہترین مواقع فراہم ہو سکیں گے

Scheme of Studies

پہلا سمسٹر

کورس کوڈ	مضمون کا نام	تدریسی گھنٹے:10
URD 710	ترتیب وتدوینِ متن (لازمی)	3-0
URD 713	اُسلوب (لازمی)	3-0
URD 720	اقبال کے فکر وفن کا مطالعہ (لازمی)	3-0
QT 701	Fehm-e-Quran - I	0-1

دوسرا سمسٹر

نوٹ: دوسرے سمسٹر میں دو (۲) لازمی مضامین کے علاوہ ایک اختیاری مضمون کا انتخاب کرنا ہوگا۔

کورس کوڈ	مضمون کا نام	تدریسی گھنٹے:10
URD 811	عملی تنقید (لازمی)	3-0
URD 820	تحقیق کا فن (لازمی)	3-0
URD 822	ادبی اصطلاحات (اختیاری)	3-0
URD 825	عالمی ادب کا مطالعہ (اختیاری)	3-0
URD 830	عربی زبان کی تفہیم (اختیاری)	3-0
URD 832	ادب اور نفسیات (اختیاری)	3-0
URD 834	معاصر شعری ادب (اختیاری)	3-0
QT 801	Fehm-e-Quran - II	0-1

سمسٹر 3 اور اس کے بعد

کورس کوڈ	مضمون کا نام	تدریسی گھنٹے:09
URD 890	تحقیقی مقالہ (Research Work / Dissertation)	0-9

ضروری نکات:

- مضامین کا انتخاب منظور شدہ فہرست سے ریسرچ ایڈوائزر کے مشورے کے ساتھ کیا جائے گا۔
- ریسرچ ایڈوائزر سکالر کو اس کے شعبۂ تحقیق سے متعلق اضافی مضامین میں رجسٹریشن کرنے کی ہدایت دے سکتا ہے۔
- ریسرچ سکالر ۹ تدریسی گھنٹے پر مشتمل تحقیقی مقالہ (Dissertation) کے لیے داخل ہوگا جس کا کم سے کم دورانیہ ۴ سمسٹرز ہے۔
- ریسرچ سکالر مجوزہ خاکہ (Research Proposal) سرحد یونیورسٹی بورڈ آف ایڈوانس سٹڈیز اینڈ ریسرچ (BOASAR) سے منظوری کے لیے پیش کرے گا۔
- ریسرچ سکالر کے لیے تحقیقی مقالہ (Dissertation) کے دفاعی نشست (Public Defence) سے پہلے ہائیر ایجوکیشن کمیشن پاکستان سے منظور شدہ تحقیقی مجلّہ (Research Journal) کیٹگری "Y" میں ایک تحقیقی مضمون (Research Paper/ Article) (اولین لکھاری (First /Principal Author's) کی حیثیت سے شائع کرانا لازمی ہے۔

Admission Committee

The following Department/Institute Admissions Committee is responsible to process admissions of all Post Graduate level programs:

- Dean of the concerned faculty (Convener)
- Head / Director of the concerned department/institute
- Two senior faculty member, other than lecturer to be nominated by the Dean of concerned Faculty.
- Director Admissions (Member Secretary)

For further information regarding filling of admission form, selection of program, eligibility criteria and other required procedures/documents, the Directorate of Admissions may be contacted through following means:

Tel: 091-5230937-38-39-40
Cell: 0320-5000034-35-36-37
Email: admissions@suit.edu.pk
Website: www.suit.edu.pk

Important Rules & Regulations

1. Admission Process

1.1 Advertisement and Submission of Applications

University offers postgraduate admissions bi-annually in the Fall and Spring Semesters in accordance with the following procedure:

1.1.1 Admission to MS/M.Phil/PhD degree programs of the University shall be advertised by the Directorate of Admissions in consultation with the respective Heads of Department (HOD) /Directors of Institutes (DOI).

1.1.2 The number of students to be admitted shall be determined by the HOD/DOI and approved by the concerned Dean of Faculty.

1.1.3 Applications for admissions shall be submitted to the respective HOD/DOI within the prescribed period through Directorate of Admissions.

1.1.4 Each candidate shall submit only one application. The applicant shall clearly mention the specialization, if applicable, in which the applicant is interested and shall provide evidence of subjects studied by the candidate which are required for the particular specialization. For details on area of specialization, the Head/Director of the concerned Department/Institute should be contacted.

1.1.5 Each candidate shall submit, along with other requisite documents, two letters of recommendation at least one of which is from the academic institution last attended.

1.1.6 Applications not submitted on the prescribed form, or incomplete with regards to the attachment of required certificates/ testimonials, or not meeting the eligibility criteria, will not be considered.

1.1.7 As part of the application for admission to PhD programs, applicants shall be required to submit a Statement of Purpose which shall form an integral part of the application. The admissions committee shall use the information provided to ascertain the preparedness and interest of the candidate in pursuing doctoral studies and whether the department/institute has the requisite resources to train and supervise the doctoral candidate in the sub-speciality in which the applicant is interested. The Statement of Purpose shall include the following:

i. Title of the potential research proposal.
ii. Clear articulation of the current understanding of the intended field and ideas for potential research.
iii. Explanation of the intended impact of the proposed research.
iv. The prospective candidates shall demonstrate passion and enthusiasm for the area of research.

1.1.8 Applications for admissions shall be submitted online through website or physically to the Directorate of Admissions within the prescribed period.

a. Receipt of online application shall be acknowledged through text message on the cell number given in the application form.
b. Receipt of application submitted through surface mail (by post/courier service) shall be acknowledged via text message on the cell number given in the application form.
c. Receipt of application submitted on campus shall be acknowledged at the time of submission.

1.2 Eligibility for MS/M.Phil Programs

1.2.1 Candidates possessing the relevant Master's or Bachelor's Degree obtained after sixteen years of education with at least 50% marks in annual system or CGPA of 2.00 on a scale of 4.00 from a recognized institute/ university shall be eligible for admission to MS/M.Phil programs.

1.2.2 Candidates need to pass GRE/ HAT/ SU-GAT General conducted by any Registered Testing Agency or University, with at least 50% cumulative score.

1.3 Admission to MS/M.Phil Programs

Admission to MS/M.Phil program shall be on merit. The merit shall be determined according to the following criteria:

1.3.1 25% weightage shall be given to the marks obtained in the qualifying degree level examination in the particular field obtained after sixteen years of education. Equivalent marks will be determined by Directorate of Admissions in case of CGPA-based result.

1.3.2 50 % weightage to the GRE/ HAT/ SU-GAT General.

1.3.3 25% weightage to be given to the Departmental Admission Test/Interview.

1.3.4 Initially, the candidate will be given provisional admission to a program, which will be confirmed after (i) verification of testimonials /documents and (ii) removal of course deficiencies, if any.

1.4 Eligibility for PhD Programs

1.4.1 Candidate who has already completed MS/M.Phil or equivalent degree program shall be eligible for admission to the PhD programs provided the candidate has secured a minimum CGPA of 3.00 on a scale of 4.00 or First Division in MS/M.Phil degree.

1.4.2 Candidate who has done MS without research thesis may be considered for admission in the PhD program if he/she submits a published paper in an HEC-approved journal as a principal author.

1.4.3 Candidate needs to pass GRE/ HAT/ SU-GAT General conducted by NTS/ETEA/any Registered Testing Agency or University with at least 60% cumulative score.

1.5 Admission to PhD Programs

Admission to PhD program shall be on merit. The merit shall be determined according to the following criteria:

1.5.1 25% weightage shall be given to the marks obtained in the qualifying degree level examination in the particular field, obtained after eighteen years of education. Equivalent marks will be determined in case of CGPA-based result.

1.5.2 50% weightage to the GRE/ HAT/ SU-GAT General.

1.5.3 25% weightage to be given to the Departmental Admission Test/Interview.

1.5.4 Initially, the candidate will be given provisional admission to a program, which will be confirmed after (I) verification of testimonials/documents, and (ii) removal of course deficiencies, if any.

1.6 Restrictions and Declarations

1.6.1 Candidate punished by his/her previous institution or university on account of indiscipline or undesirable activities (major penalties) shall not be admitted in the University.

1.6.2 The authority concerned may refuse admission to a candidate who, in its opinion, has malafide intentions or undesirable background.

1.7 Admission Procedure

1.7.1 The names of candidates selected by the Admissions Committee shall be forwarded through the Directorate of Admissions to the Dean for approval , as per merit list, for admission. The decision of the Dean shall be final in this regard.

1.7.2 Selected candidates shall have to register for the chosen degree programs by paying the necessary university dues within the specified time and the Directorate of Admissions shall issue registration numbers to the admitted candidates.

1.7.3 Any seat falling vacant due to non-registration of a successful candidate within the specified time shall be filled in by the succeeding entries in the respective merit list.

1.7.4 No candidate shall be admitted after three weeks from the date of commencement of classes without the approval of the Competent Authority.

1.7.5 After receipt of Admission Fee, the D.O.A will send the list of admitted students to the department for their record and onward contact with the newly admitted students.

1.7.6 Letters of provisional admission shall be issued to students on their request whose admissions are approved by the Dean of the concerned Faculty.

2. Payment of Dues

2.1 Admission and tuition fees shall be deposited by the selected candidates in the university's account within stipulated time period on prescribed invoice issued by Accounts Section for admission.

2.2 The University follows HEC's fee refund policy in case of cancellation of fresh admissions.

2.3 Admission of the candidate shall stand cancelled if fees are not paid within the stipulated time mentioned on fee invoice.

2.4 Every student shall be required to deposit registration fee, security deposit, semester enrolment fee, tuition fee, examination fee, lab/chemical charges and any other fee in authorized bank on prescribed invoice to be issued by Accounts Section. Similarly, for each subsequent semester, dues have to be paid by the prescribed dates.

2.5 In case of non-completion of MS with Plan-A/M.Phil degree in two years, scholar shall pay only Enrollment Fee in the 5th & 6th semesters and Full Fee from 7th Semester onwards.

2.6 In case of non-completion of PhD degree in three years, scholar shall pay only Enrollment Fee in the 7th, 8th, 9th & 10th Semesters and Full Fee from 11th Semester onwards.

3. Procedure for Admission of Foreign Students

Non-Pakistani candidates desirous of joining Sarhad University are required to produce the following documents:

3.1 For Provisional Admission

i. No Objection Certificate (NOC) from the Pakistan Embassy in the respective foreign country.

ii. Duly-filled HEC Admission Proforma for Foreign Candidates.

iii. Copy of valid Passport along with Visa.

iv. Photocopies of all previous educational certificates/degrees attested by the concerned Embassy and Pakistan Foreign Office.

v. Equivalence Certificate for Higher Secondary School Certificate (12-years of education) from the Inter Board Coordination Committee (IBCC), Plot No. 25, Street 38, G-10/4, Near Federal Government Employees Housing Foundation, Islamabad (Pakistan), Phone No: 051-9106630-36. (For Admission in Undergraduate Programs).

vi. Equivalence Certificate of Bachelor Degree (16 years of education) from the Director General, (Attestation and Accreditation), Higher Education Commission, Sector H-9, Islamabad (Pakistan), Phone No: 051-9257598 / 051-9040708 (For Admission in Graduate Programs).

vii. Valid GRE/ HAT/ SU-GAT General result card with minimum 50% marks (For Admission in MS/MPhil Programs).
viii. Valid GRE/ HAT/ SU-GAT General result card with minimum 60% marks (For Admission in PhD Programs).
ix. English Language Proficiency Certificate from the Pakistan Embassy in the respective foreign country.

3.2 For Confirmed Admission
i. No Objection Certificate (NOC) from Higher Education Commission (HEC) for Admission in concerned degree program.
ii. Study VISA for concerned degree program.

4. Registration

4.1 A scholar for MS/M.Phil/PhD program shall be registered in the concerned academic department of the University.
4.2 A person registered for the MS/M.Phil/PhD program shall be called MS/M.Phil/PhD Scholar.
4.3 The Directorate of Admissions, in consultation with the concerned HOD/DOI, shall maintain a record/files of MS/M.Phil/PhD scholars and assign a registration number to each scholar at the time of admission.
4.4 Registration may be renewed on payment of prescribed fee if a scholar is re-admitted within a year after having been struck off the rolls for any valid reason.

5. Cancellation of Admission

Admission shall be cancelled if:
5.1 A program is not started due to insufficient number of students or any other reason; the University shall give full refund to the candidate without any other financial liability.
5.2 A bonafide scholar of the University can apply in person, or through parents/guardian for cancellation of admission. The Vice Chancellor shall approve the application of admission cancellation with the recommendation of HOD/DOI which will be notified by the Director Admissions.
5.3 A scholar registered in a semester remains wilfully absent from the classes continuously for a period of 40 days. Such action shall be taken on the recommendation of the Head of the concerned Department/Director of the concerned Institute.

6. Enrolment in Semester

6.1 At the beginning of each semester, a scholar shall enroll in the prescribed courses on the enrolment form.
6.2 The enrolment shall not be deemed complete unless a student makes payment of all prescribed fees and submits the course enrolment form.
6.3 Enrolment and fee payment shall be completed by the dates notified for this purpose, provided the Competent Authority may, in special circumstances and on payment of late fee applicable at that time, permit a scholar to enroll within 3 weeks after the commencement of a semester. This permission of late admission/ enrolment shall be at the scholar's risk who shall be responsible to make up the deficiency on his/ her own.
6.4 A scholar admitted to a program shall, for so long as he/she has not completed all requirements for the degree, enroll himself/ herself for each semester, failing which his/her admission shall stand cancelled.
6.5 A scholar who discontinues with permission may seek readmission in the same or subsequent semester on the

recommendation of the concerned HOD/DOI and with the approval of the Competent Authority.

6.6 A scholar shall not be allowed to enroll in a course having a pre-requisite course unless he/she passes that pre-requisite course.

6.7 If a candidate lacks the background knowledge for a specific program/ specialization of interest, he/she shall have to make up for the deficiency by taking one or more additional courses as the concerned HOD/DOI may prescribe.

6.8 A bonafide scholar of the University may apply in person, or through parents/ guardian, for freezing of a regular semester, within five weeks from the date of commencement of semester, provided the student has paid the semester dues by the prescribed date. No fee has to be paid when the student subsequently enrols in the next semester except for the difference of fee of the semester frozen and the semester in which the student enrols. The maximum duration of the program shall remain the same.

6.9 The courses will be offered subject to the availability of the faculty and reasonable number of scholars.

7. Re-enrollment

7.1 A scholar receiving F or W grade in any course shall be required to re-enroll in that course. A scholar receiving C, D+ or D grade in a course may also re- enroll in that course, subject to a maximum of one chance to improve his/her grade.

7.2 A department/institute may offer Repeated Courses (over and above the regularly scheduled courses with total credit hours not exceeding 12) during a regular semester in order to facilitate re-enrolling scholars. However, minimum number of scholars re-enrolling must be 5; otherwise, the course shall be dropped.

7.3 If a course is abolished due to revision in curriculum or scheme of studies, the HOD/DOI may recommend a relevant course from the existing curriculum as a replacement for the scholars who need to re- enroll in the abolished course. The same shall be reflected in the scholars' Enrollment Forms and Transcripts.

8. Semester System

8.1 Sarhad University follows the semester system. There are two semesters (Fall and Spring) every year. Each semester is spread over 18 weeks (including examinations). At the end of each semester, two to three weeks are allowed for the compilation of results. Scholars promoted to the next semester have to complete their enrolment before start of next semester.

8.2 MS/M.Phil program requires the completion of 34 to 38 credit hours in 2 years, whereas PhD program requires the completion of 56 credit hours in at least 3 years.

9. Withdrawal/change of Course(s)

9.1 When a course, for which a scholar has enrolled, cannot be offered according to the announced program, the scholar may take an alternative course. However, this must be done no later than 15 days after the date of enrollment.

9.2 A scholar, with the approval of the concerned Dean, may be allowed to:

i. Change a course within 7 days of the commencement of a semester, and

ii. Drop a course within 5 weeks of the commencement of a regular semester. No fee has to be paid when a dropped course is taken at a later stage.

9.3 Withdrawal from a course shall be allowed till the end of the fifth week with the approval of the supervisor,

HOD/DOI and Dean. Withdrawn course shall appear on the transcript with letter grade W. Scholar shall pay the requisite fee when taking a course from which he/she had withdrawn earlier.

10. Grades and Academic Standing

10.1 To be eligible for graduation, a scholar shall have the requisite CGPA, 2.50 for MS/M.Phil program with no failed course and 3.00 for PhD program, in course work and satisfactory grade S (or Pass as the case may be) in research. Grade Points are assigned as shown in clause 10.8.

10.2 A scholar who has been awarded F grade in a course may be allowed to improve the grade by repeating the course within the prescribed time limit. This facility may be availed for a maximum of two courses during the entire postgraduate program.

10.3 Grade I is awarded to a scholar only if he/she has missed the final examination or his/her thesis/dissertation is incomplete, on genuine grounds, but has completed all other work for the course successfully. In case of coursework, Grade I shall be converted to an appropriate letter grade within two consecutive semesters; otherwise, it shall be converted into grade F permanently.

10.4 The requirement of verified (V) grade shall be laid down by the course instructor at the beginning of the semester.

10.5 In case numerical grades are not feasible, as for example in the case of field work, letter grade S (satisfactory) or U (Unsatisfactory) shall be used instead, and not counted towards the CGPA.

10.6 A scholar whose CGPA falls below 2.50 for MS/M.Phil program or 3.00 for PhD program, shall be required to improve his/her CGPA to the required minimum by taking additional course(s) or by repeating the courses in the following semester failing which he/she shall be considered as withdrawn.

10.7 Scholar earning a grade C+ or a lower grade shall get an additional chance to improve the grade by repeating the course. Tuition fee will be charged for repeating the course. The scholar shall get no additional credit for repeating the course. After repeating the course and fulfilling all its requirements, the course instructor shall award the scholar a fresh grade. Better of the earned grades shall be used in computing the CGPA.

10.8 A scholar not allowed to appear in the final examination of a course due to shortage of attendance shall be deemed to have obtained zero marks in the final examination. The grade shall be awarded based on the scholar's sessional and mid semester examination marks.

Percent Marks	Letter Grade	Grade Point	Remarks
85 - 100	A	4.00	Excellent
78 - 84	B+	3.50	Outstanding
70 - 77	B	3.00	Good
65 - 69	C+	2.50	Above Average
60 - 64	C	2.00	Average
55 - 59	D+	1.50	Below Average
50 - 54	D	1.00	Poor but Passing
< 50	F	0.00	Failing
-	I	-	Incomplete
-	W	-	Withdrawn
-	S	-	Satisfactory
-	U	-	Unsatisfactory
-	V	-	Verified

* The HOD/DOI or the Dean of the concerned faculty may decide to use curving for award of letter grades instead of using the fixed percentages tabulated above.

11. Rechecking / Re-totalling

Any scholar who is not satisfied with his/her marks/ grade in a course can apply for rechecking within 15 days of the declaration of result. Application for rechecking shall be accepted on the payment of rechecking dues at the specified rate. Initially, only re-totalling shall be performed and the paper shall be examined for any unchecked/ unmarked portion. If some portion is found unchecked, the paper shall be sent to the concerned grader for rechecking/ remarking. In case the scholar's marks are enhanced as a result of rechecking/ re-totalling, the fee paid by him/ her shall be refunded.

12. Credits And Audits

12.1 A credit hour shall represent a study in an approved course carried out for one theory hour or three laboratory hours per week per semester.

12.2 If a scholar desires to get enrolled in a course without taking examination, that course shall be reflected as Audit-Based Course on the transcript. In order to successfully complete the audit course, the scholar shall fulfil all requirements specified by the teacher. A scholar shall take consent of the supervisor before enrolling in Audit Course. Failure in meeting such requirements can lead to award of letter grade W (withdrawn). Successful audit shall be indicated by the letter grade V (verified). Students registering for courses on audit basis shall pay prescribed tuition fee.

12.3 Once the scholar completes minimum duration of his/her degree, he/she shall be required to get enrolled in at least three credit hours of research work in each subsequent semester. However, those who enroll courses shall be exempted from this requirement.

13. Work Study Load

A scholar shall not be allowed to take more than 12 Credit hours per semester, other than Quran Course.

14. Course Change and Credits

A scholar may request the HOD/DOI that his/her status in a course be changed to that of an auditor or that he/she may be permitted to withdraw from a course not later than the end of the fifth week of the semester. If the request is accepted, the scholar's record shall be marked as Auditor or as Withdrawn against that course. A scholar who fails to complete a course without having his/her status so changed to Auditor or Withdrawn shall receive, at the teacher's discretion, either a grade of I (Incomplete) or F (Fail).

15. Class Work and Attendance

A scholar shall attend the classes regularly, submit assignments on time, and appear for tests and examinations when announced by the teacher. Scholars with less than 75% attendance in a course shall not be allowed to appear in the final examination of the course.

If a PhD scholar, after passing the Comprehensive Examination, wants to avail leave, that period shall be counted towards the duration of that program. Such a scholar shall pay prescribed fees in every semester.

16. Computation of Semester and Cumulative GPAs

Semester and cumulative Grade Point Averages (GPAs) shall be calculated using the following relationships:
The GPAs shall be calculated on a scale of 4.00. The semester GPA shall have three digits after decimal (e.g., 2.835), whereas the cumulative GPA shall have two digits after decimal (for example 2.84).
GPA = Sum over semester (Course Credit Hours x Grade Points Earned) / Total Semester Credit Hours
CGPA = Sum over all courses taken (Credit Hours of each course x Grade Points Earned) / Total Credit Hours Taken

17. Supervision

17.1 MS/M.Phil Scholars

17.1.1 Each scholar, upon registration in the MS/M.Phil Program, shall be assigned research supervisor, subject to availability and area of interest of scholar, by the HOD/DOI from amongst the faculty members of the department/institute. The scholar shall register for courses/research in all semesters in consultation with the research supervisor.

17.1.2 Any faculty member with at least MS/M.Phil degree with research work and meeting HEC criteria for supervision of MS/M.Phil scholars shall be appointed as supervisor.

17.1.3 The HOD/DOI shall forward the name of the supervisor for each scholar to the Registrar via GSC for the approval of the BOASAR / Vice Chancellor.

17.1.4 The number of MS/M.Phil scholars under the supervision of an MS/MPhil qualified faculty member shall not exceed five (5) at a time.

17.1.5 The number of MS/M.Phil/PhD scholars under the supervision of a PhD qualified faculty member shall not exceed twelve (12) at a time; no more than five (5) of these scholars shall be Ph.D scholars.

17.1.6 At the time of submission of research proposal, a scholar may apply for change of supervisor if the chosen topic of the research of scholar and the area of expertise of the previously-assigned supervisor do not match.

17.1.7 A co-supervisor may be appointed if recommended by the scholar's supervisor.

17.2 PhD Scholars

17.2.1 Each scholar, upon registration in the PhD program, shall be assigned a research supervisor, subject to availability and as per the area of interest of scholar, by the HOD/DOI from amongst the faculty members of the department/institute. The scholar shall register for courses/research in all semesters in consultation with the research supervisor.

17.2.2 Any faculty member with PhD degree and meeting HEC criteria for supervision of PhD scholars shall be appointed as supervisor.

17.2.3 The HOD/DOI shall forward the name of the supervisor for each scholar to the Registrar via GSC for the approval of the BOASAR.

17.2.4 The number of PhD scholars under the supervision of a PhD qualified faculty member shall not exceed five (5) at a time.

17.2.5 At the time of submission of research proposal, a scholar may apply for change of supervisor if the chosen topic of the research of scholar and the area of expertise of the previously-assigned supervisor do not match.

17.2.6 A co-supervisor may be appointed if recommended by the scholar's supervisor.

18. Functions Of The Supervisor

18.1 Provide guidance to the scholars on rules and regulations of the program.
18.2 Recommend and plan courses.
18.3 Propose the topics of research in consultation with the scholars.
18.4 Supervise and review the progress and provide guidance to the scholars.

19. Graduate Studies Committee (GSC)

There shall be a Graduate Studies Committee (GSC), appointed for a period of two years by the Vice-Chancellor, for each Department/Institute. The Dean of the concerned Faculty, after consulting with the HOD/DOI, shall forward the names of the members of GSC to the Registrar for the approval of the Vice Chancellor.
The GSC shall consist of:

19.1 The HOD/DOI as Convener who shall schedule the meetings of GSC and distribute the minutes of meetings.
19.2 Three faculty members of the department (PhD Degree holders for PhD Programs) as members. The HOD/DOI shall nominate one of the members to serve as the Secretary of GSC who shall take notes during the meetings and prepare minutes.
19.3 Functions Of Graduate Studies Committee (GSC)
19.3.1 Manage and facilitate the smooth functioning of the academic program.
19.3.2 Conduct and supervise the examinations, including the Comprehensive Examinations of PhD scholars.
19.3.3 Examine and recommend research proposals and theses/dissertations of scholars along with supervisor.

20. Road Map for MS/M.Phil Degrees

20.1 Completion of the required course work.
20.2 Recommendation of research proposal from GSC.
20.3 Approval of research proposal from the Board of Advanced Studies and Research (BOASAR).
20.4 Publication of a research paper in a refereed national/international conference or journal for the award of MS/M.Phil degree, if required by the concerned department/institute.
20.5 Approval of thesis by GSC.
20.6 Thesis defence and viva voce.
20.7 Approval of Award of Degree by BOASAR.

21. Requirements for Award of MS/MPhil & Equivalent Degrees

21.1 The MS/MPhil and equivalent program shall extend over a period of at least two years and a maximum of four years. In exceptional cases, a degree cannot be awarded in less than 2 years. Further if the degree is not awarded in prescribed maximum duration, such cases shall be decided through BOASAR (Board of Advance Studies and Research) of the University on case-to-case basis and HEC shall be informed accordingly.
21.2 Total credit hours of a degree program as mentioned in the respective scheme of studies , including coursework credit hours and credit hours of research, are required to be completed to earn the MPhil/ MS and equivalent degree programs under Plan A. A scholar may opt for Plan B (for MS and equivalent degree degrees only). Under Plan B, the six credit hours of research shall be replaced by at least one course of three credit hours from the list of core/ elective courses and one project of three credit hours. As per departmental policy if Plan C is part of a

scheme of studies then the six credit hours of research shall be replaced by at least two courses of three credit hours each from the list of core/ elective courses The credit hours may be enhanced by a department in special cases.

21.3 The total credit hours of course work shall include a minimum of 18 credit hours from the area of specialization/core courses and Research Methodology course of 2 or 3 credit hours which shall be registered as credit course. For the remaining credit hours, the scholar may take courses from a list of core/elective courses to complete degree requirements.

21.4 To be eligible for graduation, a scholar shall have a minimum CGPA of 2.50 in course work and shall achieve satisfactory grade S in research work in MPhil/MS Plan-A degrees.

21.5 In case the CGPA falls below 2.50, the scholar shall be allowed to improve the CGPA in the prescribed manner.

21.6 The scholar shall be required to publish a research paper or produce an acceptance letter of such publication in referred national/international conference or journal, if required by the department concerned.

Program	Credit Hours Requirement	Degree Duration	Semester Duration	Semester Course Load
MPhil	Total Credit Hours 35 (coursework + research)	Minimum: 2 years (4 semesters) Maximum: 4 years (8 semesters)	18 weeks (including 2 weeks of examinations)	9-12 Credit Hours
MS/Equivalent Programs	Plan-A Total credit hours as per scheme of studies (coursework+research) Plan-B Total credit hours as per scheme of studies (coursework + Project) Plan-C (If allowed by concerned department) Total credit hours as per scheme of studies of a degree program are based on coursework.	Minimum: 2 years (4 semesters) Maximum: 4 years (8 semesters)	18 weeks (including 2 weeks of examinations)	9-12 Credit Hours
PhD	Total credit hours 56 (18 credit hours of course work and 36 credit hours of research work)	Minimum: 3 years (6 semesters) Maximum: 8 years (16 semesters)	18 weeks (including 2 weeks of examinations)	9 Credit Hours (12 Credit Hrs. in Exceptional Cases)

22. Road Map for PhD Degrees

22.1 Completion of the required course work.

22.2 Passing of Comprehensive Examination after the completion of the required course work.

22.3 Recommendation of research proposal from REC and GSC.

22.4 Approval of research proposal from the Board of Advanced Studies and Research (BOASAR).

22.5 Publication of a paper from PhD research in a relevant HEC-approved journal for the award of PhD degree.

22.6 Approval of dissertation by REC and GSC.
22.7 Public defence and viva voce.
22.8 Approval of Award of Degree by BOASAR.

23. PhD Candidature and Comprehensive Examination

23.1 A PhD scholar shall appear in the Comprehensive Examination after the completion of the required PhD course work.
23.2 Each department/institute shall conduct the Comprehensive Examination on a regular basis. It shall be a written examination based on research-oriented questions covering, but not limited to the 18-credit hour PhD course work followed by viva voca. The examination shall be designed to assess research aptitude and knowledge of basic principles in the areas relevant to the scholar's field of interest.
23.3 The department/institute shall prepare an Annual Schedule/Calendar of Comprehensive Examination (to be held preferably twice a year)
23.4 The examination shall be conducted for all scholars eligible to appear in the examination rather than on individual basis.
23.5 Each department / institute offering PhD programs shall constitute a Comprehensive Examination committee. The committee shall consist of the following members:
- i. Research Supervisor(s);
- ii. One subject expert from major courses;
- iii. One subject expert from minor courses;
- iv. One member relevant to the subject field from outside the University; and
- v. One nominee of the Vice Chancellor relevant to the subject, not below the rank of Associate Professor.

23.6 Three papers (each of at least two-hour duration) shall be prepared, one each by those at S. No. ii, iii and iv, and the scholar shall have to pass each paper with at least 70% marks. A viva (on pass/fail basis) shall invariably be conducted for a scholar who passes the written test.
23.7 All members of the committee shall independently assess and evaluate the potential of the scholar with regard to the novelty in the relevant field of research.
23.8 The comprehensive examination committee shall send result to the Examinations Section within 15 days of conduct of examination / viva.
23.9 The Examination Section shall declare the result on pass/fail basis without mentioning marks.
23.10 A scholar who fails the Comprehensive Examination shall be allowed to repeat the examination only once within six months of the declaration of the result of the examination. The admission of a scholar who does not pass the Comprehensive Examination within 2 years of admission in the program shall be cancelled. In exceptional case, one semester extension can be granted by the Vice Chancellor.
23.11 A scholar who fails the Comprehensive Examination twice shall not be allowed to continue the PhD program.
23.12 The Head of HOD/DOI shall confirm the passing scholar as Candidate for PhD Program.

24. Research Evaluation Committee (REC)

Within two months of passing the Comprehensive Examination, the supervisor, with the approval of the HOD/DOI, shall constitute a Research Evaluation Committee (REC) for each PhD scholar comprising qualified persons. All committee members shall have PhD degrees. The composition of the REC shall be as follows:

24.1 The supervisor from the concerned department. The supervisor shall act as the Convener of REC. If a supervisor is unable to continue, the HOD/DOI, in consultation with REC, shall appoint a new supervisor.
24.2 One faculty member from the concerned department.
24.3 One faculty member from a department/institute other than the concerned department/institute.
24.4 In case there is a co-supervisor, he/she shall also be the member of REC.
24.5 The names of the members shall be submitted to the Vice Chancellor for approval through the Registrar.
24.6 The REC shall meet at least once every year until the award of degree within the maximum duration allowed for the program to evaluate the progress of scholar's research; the scholar shall give a presentation on his/her research in every meeting and REC, in its final meeting, shall recommend whether the scholar is ready for dissertation defence or not.
24.7 The REC may advise the candidate to go ahead if it is satisfied with the progress of the work or to discontinue if it is not satisfied.

25. Requirements for Award of PhD Degree

25.1 The PhD program of a scholar shall extend over a period of at least three years and maximum eight years. Further if the degree is not awarded in prescribed maximum duration, such cases shall be decided through BOASAR (Board of Advance Studies and Research) of the University on case to case basis and HEC shall be informed accordingly.
25.2 The PhD program is task oriented rather than time oriented. The PhD work shall be considered complete only when the Research Evaluation Committee (REC) and Graduate Studies Committee (GSC) are satisfied.
25.3 The student shall register for at least 54 credit hours, including 18 credit hours of course work and 36 credit hours of research work. The 18 credit hours shall include courses from the area of specialization and electives, subject to the approval of the supervisor. The credit hours may be enhanced by a department in special cases.
25.4 To be eligible for graduation, a student shall have a minimum CGPA of 3.00 in coursework and satisfactory grade S in dissertation.
25.5 In case the CGPA of a scholar falls below 3.00, he/she shall be allowed to improve the CGPA in the prescribed manner.
25.6 Before being considered for the award of PhD degree, a scholar shall have to:
i Pass the Comprehensive Examination.
ii Submit satisfactory reports from both internal and external dissertation evaluators.
iii Publish at least one paper from PhD research in a relevant HEC-approved journal.
iv Undergo public defence and pass viva voce.

26. Conduct of Examination

26.1 Course work
For all taught courses of MS/M.Phil/PhD program, a semester final examination having 50% weightage shall be carried out. The remaining 50% marks shall be distributed over quizzes, home assignments, mid-semester examination, mini project, or any other appropriate way, as it suits the requirements of the course. However, such distribution shall be clearly spelt out in writing before the commencement of the course.
26.2 Project
i. MS Project proposal, submitted by a scholar at the end of the third semester of his/her studies, shall be

vetted by the Research Ethics Committee, Director QEC and approved by the concerned GSC.

ii. Before a scholar is allowed to defend his/her project, it shall be vetted by the Director QEC against plagiarism who shall issue the Anti-Plagiarism Test Certificate.

iii. The scholar shall appear in the viva voce to be contacted by the examination committee comprising of the project supervisor and internal faculty member, preferably professor, of the concerned department/institute.

iv. The GSC shall approve the result of the scholar and forward it to the Examination Section.

26.3 Research

26.3.1 MS/M.Phil Program

i. MS/M.Phil research proposal, submitted by a scholar at the end of the second semester of his/her studies, shall initially be vetted by the Research Ethics Committee, Director QEC and GSC of the concerned department before recommending it to BOASAR for final approval.

ii. All MS (Plan A)/M.Phil scholars shall give at least one seminar to the Graduate Studies Committee (GSC) on their research before applying for the defence of their theses.

iii. Before a scholar is allowed to defend his/her thesis, it shall be vetted by Director QEC against plagiarism who shall issue the Anti-Plagiarism Test Certificate.

iv. The examination of the research of the scholar shall be conducted by an Examination Committee comprising of Scholar's Research Supervisor and External Examiner from outside the University. The Examination Committee shall be appointed by the Vice Chancellor on the recommendation of the Dean of the concerned Faculty. The supervisor shall act as the Convener of the Examination Committee. The examination shall include evaluation of thesis and viva voce. In case of difference of opinion between the Scholar's Research Supervisor and External Examiner regarding the acceptance of thesis, it shall be referred to second external examiner from outside the university appointed by the Vice Chancellor on the recommendation of the Dean of the concerned Faculty. The decision of the second external examiner shall be final.

v. If the thesis is judged adequate, the scholar shall appear in the viva voce to be conducted by the Examination Committee on a specified date.

vi. If the thesis is found inadequate, it may be referred back for revision and resubmission within a specified period as decided by the Examination Committee.

vii. Only one chance of resubmission shall be allowed to a scholar and if the revised thesis is not approved under the aforesaid procedure, the thesis shall be rejected.

viii. If the scholar fails in the oral examination, he/she may be permitted to reappear in the viva voce within a period of three months. In such a case, the candidate shall be given only one chance to reappear in the oral examination.

ix. After the expiry of the prescribed duration mentioned above, the scholar may be allowed to register as a fresh scholar, if he/she so desires.

26.3.2 PhD Program

i. After successfully completing 18 credit hours of course work with a minimum CGPA of 3.00 and within one year of qualifying the Comprehensive Examination, a scholar shall defend his/her research proposal, first before Research Ethics Committee, Research Evaluation Committee and then before GSC, along with the submission of the Anti-Plagiarism Test Certificate to be issued by Director QEC.

ii. If the GSC is satisfied that the scholar understands the problem, is aware of the relevant literature, has a realistic research plan and schedule, and the research problem is of PhD standard, the research proposal shall be submitted to the Registrar for the approval of BOASAR.

iii. All PhD scholars shall give at least one seminar to the GSC on their research project at the end of research before applying for defence of their dissertations.

iv. Before a scholar is allowed to defend his/her dissertation, it will be vetted by Director QEC against plagiarism who shall issue the Anti-Plagiarism Test Certificate.

v. The scholar shall be required to publish a research article meeting the following criteria:

1. At least:
    a. One research article in W category journal or two research articles in X category journals for Science disciplines.
    b. One research article in X category journal or two research articles in Y category journals for Social Science disciplines.
2. The PhD researcher shall be the first author of these publications.
3. The research articles shall be relevant to the PhD research work of the PhD researcher.
4. The articles shall be published after approval of the research synopsis.
5. The articles shall be published in relevant research journals.

vi. The Research shall be of 36 credit hours; however, it shall not be awarded any numerical grade.

26.3.3 PhD Dissertation Defence Examination

i. The supervisor of a scholar ready for PhD dissertation defence examination shall forward the case of dissertation defence examination to the Additional Controller of Examinations / Controller of Examinations along with four copies of hard-bound dissertation and a certificate about the satisfactory completion of the scholar's research in accordance with the prescribed format of dissertation.

ii. The scholar shall make changes suggested by the Examination Committee, if any, in the dissertation within two weeks from the date of dissertation defence examination.

iii. The final dissertation may be submitted at the latest by the end of the eighth year from the date of admission.

iv. After the expiry of the duration mentioned above, the scholar may be allowed to register as a fresh scholar, if he/she so desires.

26.3.4 Evaluation of Dissertation

The Research Evaluation Committee (REC) shall first evaluate the dissertation to ascertain that the dissertation makes a distinct contribution in the area of specialization of the scholar, and it shows the ability of the scholar for original investigation and for understanding the relationship of his/her research with a wider field of knowledge. Dissertation evaluation by the Research Evaluation Committee (REC) will be carried out as follows:

a. Each member shall submit his/her report independently to the Additional Controller of Examinations / Controller of Examinations on prescribed proforma recommending:
    i. That the dissertation is satisfactory, viva-voce examination may be held to enable the scholar to defend his/her dissertation, OR
    ii. That the dissertation may be resubmitted by the scholar after revision as directed by

the members, OR

iii. That the dissertation be rejected as it is not of merit and the scholar be declared ineligible.

b. The recommendations made by a majority of the members of REC shall be implemented. In case of a tie or difference of opinions, the BOASAR shall recommend to the Vice Chancellor for appointing a neutral examiner whose opinion shall be final.

c. Re-submission of dissertation shall be allowed only once. In case the re-submitted dissertation is not of merit, the scholar shall be declared ineligible for the award of PhD degree.

d. The scholar shall be admitted to the PhD degree in the relevant branch, provided that he/she has been declared to have passed the viva voce in accordance with these regulations.

26.3.5 External Evaluation of PhD Dissertation

The PhD dissertation must be evaluated by:

a. At least two external experts who shall be:

i. PhD faculty members from the world top 500 universities ranked by the Times Higher Education or QS World Ranking in the year corresponding to dissertation evaluation year.

OR

ii. Pakistan-based Distinguished National Professors, Meritorious Professors from any national university; or professors from top universities ranked by HEC; or professors from any Pakistani University having a minimum H-Index 30 for Sciences, 15 for Social Sciences or 8 for Art and Humanities, as determined by the Web of Science.

OR

iii. Two foreign thesis evaluators from HEC-approved technology/academically advanced countries shall be nominated by the concerned supervisor for a PhD scholar within six months of passing the Comprehensive Examination. The supervisor shall submit the nomination to the concerned HOD/DOI and dean of faculty who shall recommend these names to the Additional Controller of Examinations / Controller of Examinations for the approval of the Vice Chancellor.

b. At least one external expert qualifying any one of the conditions mentioned at 'a' above if the PhD candidate publishes dissertation research in a peer-reviewed journal that is classified by the HEC in category W for Sciences and X or above for Social Sciences.

26.3.6 Viva Voce / Open Defence:

a. After the dissertation has been evaluated as satisfactory, viva voce shall be held at a place and date as may be determined by the concerned Head of Department and approved by the Dean of the Faculty and Controller of Examinations.

b. Such place and date shall be made public by the Additional Controller of Examinations / Controller of Examinations through at least two national dailies of repute and also by invitation to such other institutions of learning and research as may be related to the area of specialization of the scholar.

c. The examination of the research of the scholar shall be conducted by an Examination Committee comprising of Scholar's Research Supervisor, one Internal Examiner, and two

External Examiners from outside the University. The Examination Committee shall be appointed by the Vice Chancellor on the recommendation of the Dean of the concerned Faculty or from the list of experts maintained by the University. The supervisor shall act as the Convener of the Examination Committee. The examination shall include evaluation of the dissertation and viva voce.

d. Each member shall submit his/her report recommending:
   i. That the scholar be declared to have passed the examination,
   ii. That the scholar should appear for viva voce after a period stipulated by the Examination Committee,

   OR

   iii. That the scholar be declared to have failed and ineligible for the award of PhD degree.

e. The recommendations made by the majority of the examiners shall be implemented. In case of a tie, the case shall be referred to a third external examiner from outside university appointed by the Vice Chancellor on the recommendation of the Dean of the concerned Faculty. The decision of the third external examiner shall be final.

f. The scholar shall be admitted to a PhD degree in the relevant branch provided that he/she has been declared to have passed the viva-voce examination in accordance with these regulations.

g. Publication of at least one paper on PhD research in a relevant HEC-approved journal is essential for the award of PhD degree.

h. The online defence will be allowed on case to case basis with the approval of BOASAR.

27. Split PhD Program

The Split PhD Program shall include those PhD Programs which involve joint supervision from the two universities participating in the Program. The student shall be registered with both institutions. He/she shall abide by the rules and regulations of both institutions and additionally shall follow all terms and conditions which have been agreed upon by the two institutions in the Split PhD Program.

28. Transcript

28.1 Provisional transcripts shall be issued to all scholars free of charge within four weeks of declaration of semester result.

28.2 Official transcripts shall be issued on the completion of degree program or on the request of the scholar on the payment of prescribed fee.

28.3 Additional copies of the transcripts may also be obtained on the payment of prescribed fee.

28.4 Once transcript with qualified/completed status has been issued to a scholar, applications for improvement of CGPA shall not be entertained; he/she shall be considered a graduate of the University and not a scholar.

29. Promotion Policy

29.1 Scholars who maintain minimum semester and cumulative GPAs of 2.50 for MS/M.Phil and 3.00 for PhD shall be promoted to the next semester.

29.2 A scholar who fails to maintain the above-mentioned GPA/ CGPA shall be promoted to the next semester on Probation, provided his/her semester and cumulative GPAs are not less than 2.00.

29.3 A scholar scoring GPAs less than 2.00 but more than 1.50 will be promoted on warning. This concession (promotion on warning) shall be allowed only once. If a scholar fails to achieve the required GPA/ CGPA after repetition of courses, he/she shall be removed from the University roll

29.4 A scholar scoring GPA less than 1.50 shall be declared Fail and shall be required to repeat the semester (essentially the courses in which he/ she has grades lower than C). The scholar may be allowed to take a few courses from those of the next semester. If a scholar fails to achieve the required GPA/ CGPA after repetition of courses, he/she shall be removed from the University roll.

30. Grades for Program Completion

For graduation, all F grades have to be cleared; however, F grades of abolished courses shall not be considered if replacement courses are taken and cleared. The minimum qualifying CGPA for MS/M.Phil scholars is 2.50/4.00 and for PhD scholars is 3.00/4.00.

31. Library

The University has a spacious library with adequate and comfortable seating. The library is run by a qualified librarian and is well-stocked with several thousand books and journals. The following rules, subject to change /modification by the Library Management Committee of the University, shall be followed:

31.1 A card, known as Library Card, shall be issued to each scholar/ person permitted to borrow books from the library. Such cards shall be strictly non-transferable and shall have to be presented at the time of using library facilities.

31.2 A borrower who loses his/her card shall immediately inform the Librarian in writing. A duplicate card shall be issued to him/her on the payment of a fee of Rs. 500/-.

31.3 Books shall be issued to the scholars and staff of Sarhad University of Science & Information Technology, Peshawar, only.

31.4 Books shall not be transferred from one person to another.

31.5 If a person obtains more than one membership by concealing the facts or in any other way, his/her subsequent membership(s) shall be cancelled and a fine of Rs. 500/- shall be levied for further usage of library facilities.

31.6 No books shall be issued to a defaulting borrower unless he/she returns the books borrowed previously and pays the due fine.

31.7 The borrower who fails to return books at the time of stock-taking shall be liable to fine as decided by the Library Management Committee.

31.8 Manuscripts, reference books and reserved material shall not be issued.

31.9 The borrowers shall have to conduct themselves in an orderly manner. The library administration shall have the right to cancel the membership of a person who misbehaves with the library staff or is found taking away the books/reading material without the knowledge of the Librarian or is involved in such activities which are detrimental to the interest of the library. The library administration can also recall a book, if needed, and the borrowers shall be required to meet any such demand.

32. Laboratories

The University has modern laboratories with large number of computers and related training tools, including Physics, Chemistry, Pharmacy, and Electrical, Civil and Mechanical Engineering laboratories and Research labs. While using

the labs, the scholars of the University shall observe the following rules:

32.1 All laboratories shall remain open during the office hours. After office hours, permission may be granted for laboratory use under special circumstances.

32.2 No software shall be installed on laboratory PCs without the prior written consent of the System Administrator/ Laboratory In-charge.

32.3 Scholars shall be allowed to use internet in a laboratory when no class is in progress.

32.4 All laboratories provide no-smoking environment and hence all are expected to refrain from smoking.

32.5 Viewing obscene material in the laboratories is strictly prohibited and disciplinary action shall be taken against offenders.

32.6 In case of technical problems, Laboratory In-charge should immediately be approached.

33. Residency Requirements

33.1 The scholar shall earn all credits of coursework and complete research at the University.

33.2 In special circumstances, BOASAR may permit the scholar to carry out his/her research in another organization/institution. In such an event, the scholar shall be assigned a co-supervisor who is working in that institution and meets the criteria for the appointment of supervisor.

34. Transfer of Credits

Sarhad University does not accept scholars on migration/transfer in MS/M.Phil/PhD programs. However, the scholar with the permission of the HOD/DOI / Dean can be allowed maximum two courses in another accredited institution/ university within or outside the country. These courses shall be considered for the final CGPA as awarded by the institution/ university in which he/she is allowed.

35. Medium of Instruction

The medium of instruction in all postgraduate courses shall be English except languages and religious studies in which case the medium of instruction may be other than English.

36. Thesis Format

Thesis/Dissertation shall be written in accordance with the approved format available from the Office of the Additional Controller of Examinations / Controller of Examinations / Registrar / concerned HOD/DOI.

37. Scholastic Record

The scholastic record of all scholars shall be maintained by the Controller of Examinations. Teachers shall send award lists of grades of courses to the Examinations Section through the concerned HOD/DOI within one week of final examinations. The Controller of Examinations shall notify the results and have the transcripts prepared as per submitted awards by teachers and successful defence notification by Controller of Examinations.

38. Discipline

Scholars shall observe the rules and regulations of the University. Any infringement shall be dealt under the University Discipline Rules.

39. Interpretation of the Rules and Regulations

Interpretation of these rules and regulations by the Competent Authority of the University shall be final.

40. Special Cases

41.1 In cases where the operation of these regulations may cause undue hardship to a scholar, the Competent Authority may, for reasons to be recorded in writing, relax any of these regulations in the scholar's favour.

41.2 Where these regulations are silent, the Competent Authority shall have the discretion to make such decisions as it deems fit and proper.

41. Demotion

In case the student does not satisfy the promotion criteria mentioned in clause 30, will get demoted. The HoD shall constitute a committee comprising three senior faculty members which shall oversee such cases. The department may co-opt any university official, if necessary. The Committee shall ensure the following:

i. Identify the batch/ prospectus under which the concerned student shall continue his/ her degree.
ii. The scheme of studies indicating all courses and credit hours to be studied by the student to complete degree requirements.
iii. The degree completion requirements after demotion shall be communicated to the student concerned as well as all relevant sections/ departments of the university after the approval of the Competent Authority.

42. Re-Admission

A scholar whose admission is cancelled for any reason, other than disciplinary reason, may be re-admitted to the same program on the recommendation of the Head/Director of the concerned department/institute and approval of the competent authority. The re-admission shall be notified by the Directorate of Admissions.

43. Students Code of Conduct:

Every student shall observe the following code of conduct:-

a. Demonstrate sincerity in fulfilling religious duties and show respect for the beliefs, customs, and conscience of others.
b. Uphold loyalty to Pakistan and avoid any actions that may harm its honor, image, or dignity.
c. Ensure timely payment of tuition fees and semester dues.
d. Practice truthfulness and honesty in all personal and academic dealings.
e. Show respect to elders and be courteous to all; especially women, children, the elderly, the differently-abled, and the vulnerable.
f. Respect teachers, administrative staff, and all figures of authority within the university.
g. Maintain cleanliness in personal hygiene, language, behavior, and daily habits.
h. Be helpful, kind, and cooperative toward fellow students and members of the community.
i. Stay committed to academic responsibilities and actively participate in healthy extracurricular activities like sports.
j. Preserve and protect public and private property; avoid vandalism or misuse of university facilities.

k. Refrain from participating in any political activities, student unions, or unauthorized societies within or outside the campus.
l. Exhibit academic integrity, avoid cheating, plagiarism, or any dishonest academic conduct.
m Use mobile phones and digital devices responsibly; no usage during lectures unless permitted.
n. Use university internet and IT resources ethically and lawfully.
o. Attend all classes regularly and punctually.
p. Follow the university's dress code by dressing modestly and professionally on campus.
q. Always carry your university ID card while on campus premises.
r. Avoid any behavior that could endanger the safety or security of others.
s. Use social media responsibly; do not post content that could damage the university's reputation.
t. Understand that violations of this code may result in disciplinary action, including warnings, suspension, or expulsion.

44. Rustication and Expulsion

i. Rustication
   a. Rustication, whenever imposed on a student, shall always mean the loss of one semester or one academic year as well as appearance in a University examination. The rusticated student may be readmitted in the same program of the University on the expiry of the rustication period.
   b. Such students shall become ineligible to take admission in any program of the University in future.

ii- Expulsion
   a. The period of expulsion shall be counted from the date of issue of such a notice by the University. Expulsion period may vary.
   b. Name of the expelled scholar shall immediately be removed from the University's rolls.
   c. A student expelled from a Department may be re-admitted into the same program after the expiry of the period of expulsion.
   d. Cases of expulsion shall be registered in the University and notified to all Departments and Universities by the Registrar.
   e. Such students shall become ineligible to take admission in any program of the University in future.

45. Appeal

i. An appeal against the punishment awarded by the University Discipline Committee may be made to the Appellate Committee
ii. No appeal by any student against the decision of the University Disciplinary Committee shall be entertained unless it is presented within thirty days from the date on which the decision is communicated to him/her.

Note: This code of conduct shall repeal all previous regulations relating to expulsion and rustication or any other instructions relating to the maintenance of discipline among the students.

46. General

i. The authority which has the power to rusticate, can also withdraw the same order before the expiry of the period.
ii. No student shall be rusticated/expelled from the University unless he/she has been served with the Show Cause

Notice, and allow reasonable time for explanation and replying to the charges framed against him/her.

iii. The Discipline Committee may impose any other penalty or penalties mentioned in the Regulations if, in its opinion, the rustication or expulsion is not called for in a case referred to it.

47. University Grievance Committee

To ensure fair, equitable and timely response to the scholar's grievance, the University Grievance Committee has been constituted. The scholar can file grievance of an academic nature with the university grievance committee including but not limited to issues related to student progress, assessment, curriculum, and awards during study.

48. Conduct & Discipline Regulations

The Discipline Committee constituted by the University shall have the authority and jurisdiction to deal with and decide all cases of indiscipline in accordance with the University Code of Conduct and Discipline Regulations mentioned in clause 49. These regulations shall apply to all students on the rolls of the University.

49. University Code Of Conduct & Discipline Regulations

Penalties That May Be Imposed By The University Authorities For Various Offences Committed

OFFENCE	PENALTY
01. Using/carrying of alcoholic drinks or other intoxicating drugs within the University Campus or University Hostels or during Study Tours or Cultural Tours or Survey Camps, any such tours of any other University/College or such outside the campus under the influence of such intoxicants or misbehaving with others, especially females, during tours, etc.	Expulsion from the University or debar from classes for one week and/or fine not exceeding Rs.20,000/-.
02. Involvement in sales or purchase of narcotics.	Expulsion from the university and/or fine of Rs.45000/- along with initiation of Criminal Proceedings
03. Bringing, carrying or firing of arms or any other weapon (of any nature/type) within the University campus or classrooms or hostels or examination halls or offices of the University.	Expulsion from the university for upto two semesters / one year and /or fine not exceeding Rs.20,000/-.
04. Formation of societies, groups or other associations outside the bounds defined by the university authorities.	Warning for the first time, expulsion from the University on repetition and/or fine of Rs. 10,000/-.
05. Organizing or taking part in any function/gaterhing within the University campus or organizing any club or society of students or students association, unions or federation, except in accordance with the prescribed rules and regulations.	Expulsion and / or fine not exceeding Rs. 30,000/-.
06. Collecting any money or receiving funds or pecuniary assistance for or on behalf of the University, except with the written permission of the Vice Chancellor.	All money supposed to have been collected shall be confiscated in favor of the University and/or fine not exceeding Rs. 30,000/-.
07. Exhibiting immoral / indecent behavior and/or exposure. Or Disobeys the lawful order of a teacher or other person in authority in the University.	Warning for the first time, expulsion from the University on repetition and/or fine of Rs. 10,000/-.
08. Misbehaving and or/ not cooperating with faculty members, University proctors, Hostel Wardens, other authorities, or mistreating fellow students.	Permanent expulsion from the university or up to two years, depending on the nature and gravity of the offence and/ or fine not exceeding Rs. 30,000/-.
09. Use of abusive, derogatory, or offensive language against university authorities, teaching or administrative staff, students, or visitors.	Permanent expulsion from the university or expulsion up to three years, depending on the nature and gravity of the offence and/ or fine not exceeding Rs. 45,000/-

10. Using loudspeakers or mega-phones in the University campus or in the University hostels or making provocative speeches or gestures which may cause resentment or doing anything in anyway which is likely to promote rift and hatred among various ethnic and religious groups or castes of students community.	Fine not less than Rs.10,000/- AND / OR Stern warning.
11. Issuing statements in the press, making false accusations against the University or University Authorities or members of teaching staff / administrative staff.	Fine not less than Rs.10,000/- AND / OR Stern warning.
12. Conducting or inciting or participating in violent attack on the offices of the University authorities, Chairmen, faculty members or any other officers of the University or Student.	Expulsion from the university for upto two semesters / one year and/or Fine not exceeding Rs. 20,000/-.
13. Staging or inciting or forcing fellow students to a walkout from classes or examination halls or organizing, conducting or participating in strikes or agitation or violence against the University authorities or members of teaching or administrative staff or disrupting the classes or any other academic activity of the University being held inside or outside the campus.	Permanent expulsion from the university or expulsion up to two years, depending on the nature and gravity of the offence and/or fine not exceeding Rs. 30,000/-.
14. Casting aspersions or using abusive and derogatory language in speeches, pamphlets or posters against the University authorities or members of teaching or administrative staff of the University.	Permanent expulsion from the university or expulsion up to three years, depending on the nature and gravity of the offence and/or fine not exceeding Rs. 45,000/-.
15. Physically manhandling, beating or disgracing the University authorities or members of the teaching or administrative staff of the University or committing an act of moral turpitude against fellow students.	Permanent expulsion from the university or expulsion up to three years, depending on the nature and gravity of the offence and/or fine not exceeding Rs. 45,000/-.
16. Damaging/destroying or trying to damage/destroy the property (movable or immovable) of the University or University employees or stealing or taking away by force any item of University property.	Recovery of the amount equal to the value of the damage caused; and / or fine not exceeding Rs. 20,000/-. and / or Rustication from the University.
17. Switching off or restricting access to services, electric equipment or creating hurdles in access to university facilities.	Permanent expulsion from the university or expulsion up to two years, depending on the nature and gravity of the offence and/ or fine not exceeding Rs. 30,000/-
18. Obstructing or hindering the free and uninterrupted entry or exit of students, staff, or visitors at the university gates or within the university premises, including creating any form of blockade.	Expulsion from the university or fine not exceeding Rs. 45,000/-
19. **Conviction of any of the above offense for the second time by the University Disciplinary Committee (UDC).**	**Expulsion from the university.**

50. Penalties For Acts of Un-fair Means in Examinations

No.			Report		Status	Penalty
1.	POSSESSION	A	One paper case	Not copied	a. Failed	As per I with fine
					b. Passed	As per I without fine
				Copied	a. Failed	As per I with fine
					b. Pass	As per I with fine
		B	Two papers case	Not copied in both papers	a. Failed in both	As per I in each with fine
					b. Passed in one	As per I in each with fine
					c. Passed in both	As per I in each with fine
				Copied in one paper	a. Failed in both	As per II with fine
					b. Passed in one	As per II with fine
					c. Passed in both	As per I in each with fine
				Copied in both papers	a. Failed in both	As per II with fine
					b. Passed in one	As per II with fine
					c. Passed in both	As per II with fine
		C	Three or more papers case shall be dealt with at a higher punishment level than that provided for two papers case and penalties imposed shall not be less than B above depending upon the nature of the case.			
2.	Page Removal	A	Removal of sheets from scripts or continuation sheet			As per I with fine
		B	Using abusive words in answer books on the report of the Examiner			
		C	Smuggling of question paper outside the hall.			
3.	Cheating by Force	A	Refusing to handover cheating materials.			As per III with Fine
		B	Disobeying Supervisory staff.			
		C	Cheating by force			
4.	Smuggling of Answer Book	A	Smuggling Answer Book or Answer Sheets in / out of the Examination Hall.			As per III with Fine
		B	Misbehaving with the Supervisory staff/ Inspector.			
5.	Firearms / Impersonation	A	Possession or display of firearms			As per IV with Fine and the case may be referred to police.
		B	Impersonation: 1) Real Candidate 2) Impersonator Any act other than above.			

Penalties For Acts of Un-fair Means in Examinations (continue)

No.	Report		Status	Penalty
6.	Mobile Phone Case	A	Possession / Holding of mobile	As per I with Fine
		B	Using Mobile	As per I with Fine
7.	Staging / Smuggling of Question Paper	A	Staging a walkout or persuading others to do so.	As per II with Fine
		B	Writing wrong Roll No. to deceive inspector / supervisory staff.	
8.	Threatening	A	Assault on Supervisory staff / Inspector	As per V with a Fine and the case may be referred to police.
		B	Damaging/spoiling/parting other candidates answer book or any other important document/item related to examination.	
9.	Tempering	A	Unauthorized Centre change.	As per II with Fine
		B	Tempering.	As per III with Fine
10.	About Supervisory staff		If any member of the Supervisory staff or inspector is found guilty of an act inconsistent with the fair discharge of his duty shall be liable for disqualification from examination duties for a period of ten years and shall not be entitled for payment of the TA/DA and remuneration for the subject examination.	
11.	Absent in UFM Committee		If a candidate fails to appear before the UFM Committee, the committee will proceed according to the rules and impose relevant penalty as per rules.	
12.	if a candidate practices any other unfair means in connection with an examination not covered by the above Rules & Regulations, he/she may be awarded penalty warranted by the circumstances of the case, provided that the penalty awarded does not exceed the maximum as laid down in the Rules & Regulations mentioned.			

DESCRIPTION OF UFM COMMITTEE PENALTIES:

As per I:This paper is cancelled and Fine up to Rs.2000/-
As per II:This Examination is cancelled and Fine up to Rs.3000/-
As per III:This Examination is cancelled and also disqualified for the next examination and Fine up to Rs.5000/-
As per IV:This Examination is cancelled, fine up to Rs.20000/- and expulsion from the University. *
As per V:This Examination is cancelled, fine up to Rs.25000/- and expulsion from the University.

* If the impersonator is not on the rolls of the university/affiliated institution/DEC but holds a degree or diploma conferred or granted by the University, the Registrar shall register a case with the Local Police under section 419 PPC, and shall send intimation to this effect to the concerned Vice Chancellor for cancellation of his/her Degree/diploma/certificate.

Important Instructions for Students During Examinations

- Candidates without Roll Number Slip or whose particulars on the roll number slips do not match with those of the confidential list with the superintendent will not be allowed in the examination centre except with the prior permission of the Competent Authority will not be allowed to take examination.
- A candidate shall present himself/herself at the Centre of Examination at least 45 minutes before the time fixed for the first paper and 30 minutes before the time fixed for each subsequent paper(s).
  Candidates will not be allowed to enter in the Examination centre after 15 minutes of the start of the paper and no extra time will be given to late comers.
- No Candidate can leave Examination centre before half of the time allotted for the paper he/she is appearing in.
- Candidate who wants to leave the exam centre early will not be allowed to take question paper along with him/her.
- The candidates are required to take the allocated seats only. They may be required/ directed to change their seats during exam by the invigilation staff.
- Candidates are not allowed to bring Mobile Phones to the Examination Hall. In special cases if permitted, Mobile/Cellular phones must be switched off, not to be put on silent mode. Any mobile ringing, giving signals will be confiscated. Further Mobile phone cannot be used as a calculator.
- Scientific calculator is allowed in all relevant papers. However, computerized/ programmable calculator cannot be used in any paper under any circumstances unless specifically allowed.
- No candidate will be allowed to attend washroom during examination without the permission of the superintendent.
- Candidates should not write anything on the question paper except their name and roll numbers. All rough work should be done on the answer book.
- Exchange of any material (including calculator, pen, pencil, eraser, sharpener, ruler etc) is not allowed during examination.
- Only plain clip boards without any prints/writings will be allowed during examination.
- No answer book, question paper or paper of any kind is to be fetched out from Examination centre.
- Answer book is required to be returned back to the supervisory staff even if no question has been attempted.
- Body search of a candidate can be done at any stage during examination.
- Candidates shall write Roll number and other particulars before writing anything on the answer book or on the supplementary material provided by the supervisory staff.
- Candidate shall not write his/her name on any part of Answer Book. He/she shall not write his/her Roll number except in the space specifically provided for the purpose.
- Candidate shall not write on the question paper or on the blotting paper, or any part of his body, clothes or other material other than the answer book/ supplements. However, he/she shall write only Roll No. on the question paper. Use of electronic aid is also forbidden, except for authorized calculator in relevant papers.

- In case, there is a choice of language (English or Urdu), the candidate will have to attempt the entire paper in one language. Attempting the paper in both languages may result in cancellation of full paper of some part thereof.
- Candidates are advised to use ink or ball point pen (blue or black) for writing and lead pencil for drawing diagram.
- The questions solved with lead pencil will not be assessed.
- Candidates need to write on both Sides of pages of answer book using each line. Candidates should neither leave any page blank nor should they tear off pages from the answer book provided, but cross those if spoiled.
- Candidates can attempt the question in any order (sequence) but shall mention question number according to number mentioned in the question paper.
- A candidate misbehaving with the invigilation staff shall be liable for the cancellation of paper/ examination. Candidates are forbidden to bring any book, notes or paper or any material which can be helpful in the examination.
- Candidates can ask for extra sheets (continuation sheets) only after the answer book/ previously issued continuation sheet is fully utilized. Extra sheets/continuation sheets will not be issued during the last 15 minutes.
- Candidates need to mention the serial number of the continuation sheet(s) on the front page of the answer book.
- In case a continuation sheet is not utilized, it has to be returned to the invigilation staff.
- A candidate walking out or instigating others to walk out of the examination centre will be liable for the cancellation of paper and other penalties.
- A candidate in possession of fire-arms or any other weapon of offence in or around the Examination Centre shall entail the penalty of cancellation of Examination and any other action under the rules of the University.
- Smoking or use of any kind of drugs during examination is strictly prohibited. A candidate found guilty will be penalized under the rules of the University.
- A candidate found involved in cheating/impersonation shall be liable for the cancellation of paper/ whole examination or expulsion along with other penalty under the rules of the University.
- Each answer must be commenced with a number of question or part of sub-section thereof as shown in the question paper. A question should be attempted as a whole. The candidate may lose marks if parts of a question are attempted haphazardly on various portions of the answer book.
- Candidates shall clearly write “THE END”, at the end of their paper and cross all pages left blank in the answer book.
- Candidates shall not leave their seats or attempt to communicate with other candidate in the centre on any account.
- If a candidate wants something, he/she may draw the Invigilator’s attention by standing up.
- During the last fifteen (15) minutes before the close of the examination and at the announcement or signal, the collection of answer books will begin. Candidates shall not leave their seats until the answer books have been collected by the Invigilator.

Societies of the University

S. No	Name of Society	Convener / Focal Person
1	Drama, Literary and Debating Society	GC (Rtd.) Muhammad Sadiq Malik, Coordinator, Department of English.
2	Health Society	Mr. Umar Majeed, Assistant Prof., Sarhad Institute of Allied Health Sciences.
3	Pakistan International Human Rights Organization (SUIT Chapter)	Dr. Syed M. Hassan Shah, Professor, Department of Pharmacy.
4	Sports Society	Syed Arif Ali Shah, Head, Department of Library & Information Sciences.
5	Science & Technology Society	Engr. Mohsin Iqbal, Assistant Professor, Dept. of Electrical Engineering.
6	Society for ICT Affairs and Incubation Center	Mr. Maddad Khan, Director, SUIT Incubation Center.
7	Character Building Society	Ms. Nasreen Ghani, Professor, Institute of Nursing Sciences.
8	Green Club/ Environmental Protection Society	Mr. Kamran Khan Tatari, Assistant Professor, Dept. of Computer Science & IT.
9	Community Services Society	Mr. Muhammad Arshad Haleem, Assistant Professor, Department of English.
10	Islamic Value and Ethics Society	Engr. Dr. Obaid-ur-Rehman, Professor, Department of Electrical Engineering.
11	SUIT Volunteers & Blood Donors Society	Mr. Wahid Ullah, Lecturer, Sarhad Institute of Allied Health Sciences.
12	Library and Book Sharing Society	Dr. Shahzad Ahmad, Assistant Professor, Dept. of Library & Information Sciences.
13	Society for Women in Science & Education	Ms. Asmarah Kanwal Assistant Professor, Department of Civil Engineering.

S. No	Name of Society	Convener / Focal Person
14	Girls Affair Society	Ms. Amreen Ahmad, Lecturer, Department of English.
15	Photography & Film Making Society	Engr. Muhammad Faisal, Assistant Prof., Department of Technologies.
16	Iqbalians Society	Dr. Muhammad Imtiaz Professor, Department of Urdu.
17	Painting & Fine Arts Society	Ms. Kaneez Fatima, Lecturer, Department of Art & Design.
18	Adventure Club Society	Mr. Muhammad Irfan Assistant Professor, Department of Business Administration.
19	Cultural Society	Dr. Amir Aziz Associate Professor, Sarhad Institute of Allied Health Sci.

Special Provisions:

The University authorities reserve the right to make any change in these Academic Rules at any time without prior notice. In all cases where these Academic Rules are silent, the decisions of the Vice-Chancellor shall be final.

Sexual Harassment & Redressal of Complaints

S. No	Name / Designation / Department	Mobile Number	Email
Focal Person			
1.	**Mr. Kamran Tatari** Assistant Professor, Department of Computer Science & IT	**0332-9363493**	**kamran.ba@suit.edu.pk**
2.	**Dr. Rabia Ishrat** Professor, Department of Business Administration	**091-5230931**	**rabia.ba@suit.edu.pk**
Harassment Inquiry Committee			
1.	**Prof. Dr. Saeed Mahfooz** Dean, Faculty of Sciences, Computer Science & IT		
2.	**Engr. Abdul Hadi** Head,Department of Mechanical Engineering		
3.	**Ms. Nasreen Ghani** Professor, Institute of Nursing Sciences		
Harassment Appellate Committee			
1.	**Meritorious Prof. Dr. Zafar Iqbal (T.I)** Dean, Faculty of Life Sciences		
2.	**Dr. Gohar Abbas** Professor, Department of Business Administration		
3.	**Ms. Shaheen Ghani** Director, Institute of Nursing Sciences		

All the students are advised to contact the Focal Persons of the above Committee and lodge their written complaints, incase they face any sort of sexual harassment by word or action.

LEGAL STATUS

The University is recognized by the Higher Education Commission of Pakistan and established under Ordinance No. XXIV/2001 of the Government of Khyber Pakhtunkhwa. The Governor of Khyber Pakhtunkhwa is the Patron of the University. The Ordinance of the University provides for a Board of Governors which exercises general supervision over the affairs of management of the University. The Board of Governors of the University is the highest executive authority of the University, which comprises personalities of high standing in the academic and professions both from the public and private sectors of higher education. The Board has all the powers necessary to formulate the statutes, regulations and policies aimed at high academic standards in respect of all academic programs run by the University from Undergraduate to Postgraduate Level. The Board also enjoys powers to frame laws and policies aimed at recruiting persons of eminence in academics for senior slots in the academic hierarchy who are able to give their best to the students.

The Rules & Regulations mentioned in the Prospectus are approved by the statutory bodies of the University and are fully binding on the students taking admission in any degree/diploma program of the University under this legal document.

The University reserves the right to amend any rule/regulation at any stage.

NOTICE

This Prospectus is published in October 2025 and shall remain in force till it is revised.

Every effort has been made to ensure the accuracy of the information given in this publication, but the University reserves the right to make changes in regulations, courses, fees, etc. at any time before or after a candidate's admission without prior notice.

Documents to be attached with Admission Form

- [ ] Matric DMC / Secondary School Certificate
- [ ] Intermediate DMC / Higher Secondary School Certificate
- [ ] Equivalency Certificate from IBCC (for A Level / other than BISE students)
- [ ] Bachelors DMC / Degree (14 Years of Education)
- [ ] BE/BS/Masters DMC/ Transcript / Degree (16 Years of Education)
- [ ] MS/MPhil/Equalent degree Progam Transcript / Degree (for Admission in PhD program)
- [ ] Copy of Computerized National Identity Card - Mandatory*
- [ ] GAT General Result Card (for Admission in MS / MPhil / PhD Programs)
- [ ] 02 Original Recommendation / Reference Letters from institute last attended
- [ ] Four Recent Passport Size Photographs (Light Blue Background)
- [ ] Domicile
- [ ] Statement of Purpose (for Admission in PhD program)

For Foreign Nationals

- [ ] NOC from the Pakistan Embassy of the respective Foreign County
- [ ] Duly filled HEC Foreign Student's Information Sheet
- [ ] Copy of valid Passport along with Visa
- [ ] English Language Proficiency Certificate attested by Pakistan Embassy in relevant country
- [ ] Equivalence Certificate from IBCC / HEC (for foreign qualification)
- [ ] Photocopies of all previous educational certificates/degrees attested by the concerned Embassy and Pakistan Foreign Office

* Two copies of all documents must be attached with admission form.

* All documents must be attested by a gazetted officer

Peshawar Campus

091-5230937-38-39-40

0320-5000034-35-36-37

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