

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.

Program Offered

◆ Pharm-D (Doctor of Pharmacy)

Number of Seats

◆ Morning Shift: 100 ◆ Evening Shift: 100

Faculty Members, Department of Pharmacy

Main Campus

Meritorious Prof. Dr. Zafar Iqbal (TI)

Dean, Faculty of Life Sciences
Ph.D (Pharmaceutical Sciences),
University of Strathclyde Glasgow, UK

Dr. Tariq Abbas

Professor,
Ph.D Mathematics,
Islamia College University, Peshawar

Dr. Naila Raziq

Associate Professor,
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. Nasir Ali

Assistant Professor,
MS Biomedical Sciences,
University of East London, UK

Ms. Mahwish

Assistant Professor,
M.Phil Pharmacy,
University of Malakand

Prof. Dr. Sudhair Abbas

Head of Department
Ph.D Pharmacy,
University of Peshawar

Dr. Muhammad Asif Khan

Professor,
Ph.D Pharmacy,
University of Peshawar

Dr. Ashfaq Ahmad

Associate Professor / Asst. Coordinator,
Ph.D Pharmacy,
University of Malakand

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. Salman Aman

Assistant Professor,
MS Pharmacy (Pharmaceutics),
Sarhad University, Peshawar

Ms. Roheena Zafar

Lecturer,
MS Pharmacy (Pharmaceutics),
Sarhad University, Peshawar

Dr. S.M. Hassan Shah

Professor,
Post Doc, UK / Ph.D Pharmacy,
University of Malakand

Prof. Dr. Fazli Amin

Professor,
Ph.D Pharmacy,
University of Malakand

Dr. Peer Abdul Hannan

Associate Professor,
Ph.D Pharmacy,
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

Mr. Said Muhammad

Assistant Professor,
M.Phil Pharmaceutics,
Islamia University of Bahawalpur

Mr. Wahid Zada

Lecturer,
MS Pharmacology,
COMSATS University, Abbottabad

Faculty Members

Ms. Natasha Rahim

Lecturer,
M.Phil Pharmacy,
University of Peshawar

Mr. Abdur Raziq

Lecturer,
M.Phil Pharmaceutical Sciences,
AWKUM

Mr. Raheel Ahmad

Lecturer,
M.Phil (Pharmaceutical Sciences),
KUST, Kohat

Ms. Aisha Saddiqa

Lecturer,
MS (Pharmacy),
Sarhad University, Peshawar

Mr. Zubair Ahmed

Lecturer,
M.Phil (Pharmaceutical Sciences),
KUST, Kohat

Mr. Muhammad Yamnain

Lecturer,
M.Phil Pharmacy,
KUST, Kohat

Mr. Tahir Ullah Khan

Lecturer,
M.Phil Pharmaceutical Sciences,
KUST, Kohat

Mr. Usman Muhammad

Lecturer,
M.Phil (Pharmacology),
KMU, Peshawar

Mr. Danish Zeshan

Lecturer,
M.Phil (Pharmaceutical Sciences),
KUST, Kohat

Mr. Atta Ullah Tahir

Lecturer,
M.Phil (Pharmacology),
KMU, Peshawar

Ms. Kiran Firdous

Lecturer,
M.Phil Pharmacology,
KMU Peshawar

Syed Imran Shah

Lecturer,
MS (Pharmacy),
COMSATS University, Islamabad

Ms. Bushra Usman

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University of Peshawar

Ms. Urooj Tariq

Lecturer,
M.Phil (Pharmacy),
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Islamabad Campus

Prof. Dr. Syed Nadeem ul Hassan Mohani

Head of Department,
PhD Pharmacognosy,
University of Karachi

Dr. Fahim Hilal

Lecturer,
M.Phil Pharmacology,
QAU, Islamabad

Dr. Saba Gul

Lecturer,
M.Phil Pharmaceutics,
Riphah University, Islamabad

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Lecturer,
M.Phil Pharmaceutics,
Gomal University D.I Khan

Dr. Anis Murtaza

Lecturer (Jr),
M.Phil Pharmacology (In-Progress),
CUST, Islamabad

Dr. Jawad Azam Khan

Lecturer,
M.Phil Pharmacology,
QAU, Islamabad.

Dr. Syed Asim Shah

Lecturer (Jr),
Pharm-D,
Sarhad University, Peshawar



Pharm-D (Doctor of Pharmacy)

Recognized by Pharmacy Council of Pakistan

Program Details:

Program Code	081
Number of Courses	100 + Capstone Project
Credit Hours	198
Minimum Duration	10 Semesters, 5 Years
Maximum Duration	14 Semesters, 7 Years
Minimum CGPA Required To Earn Degree	2.00

Eligibility Criteria:

F.Sc (Pre-Medical) or A-Level with Equivalency Certificate from IBCC Islamabad with at least 60% Marks or an equivalent certificate from a recognized institution are eligible to apply.

Candidates need to pass an entry test and an aptitude interview conducted by the University.

Program Objectives:

The Pharm-D Program caters increasing needs of pharmaceutical care, drug delivery systems, drug distribution, storage, hospital pharmacy, community pharmacy, clinical pharmacy, drug information systems, and pharmaceutical industries in areas like productions, quality control, quality assurance, validation, research and development, product management, training, warehouse management, logistic and drug registration systems not only in Pakistan but in Middle East, Europe, Canada, and USA.

Program Educational Outcomes:

- ◆ PEO-1: Pharmacy Graduates will be competent professional pharmacist with integrate knowledge of pharmaceutical sciences who will practice professional principles of pharmacy.
- ◆ PEO-2: Graduates will have leadership skills with high level of integrity for team building and also have ability to function professionally with ethical responsibility as an individual as well as in multidisciplinary team with positive attitude.
- ◆ PEO-3: Pharmacy Graduates will sustain continual professional development through lifelong learning activities and work.
- ◆ PEO-4: Pharmacy Graduates will have knowledge to support the pharmaceutical industries, in their economic development, and will be able to address social and economic challenges of the nation.

Scheme of Studies

1st Professional Pharm-D

1st Semester

Course Code	Course Title	Cr. Hrs. 18
PCU 318	Physical Pharmacy - I (Th)	3-0
PCU 320	Physical Pharmacy - I (Lab)	0-1
PHC 300	Organic Chemistry I (Th)	3-0
PHC 303	Organic Chemistry I (Lab)	0-1
PCG 300	Biochemistry - I (Th)	2-0
PCG 301	Biochemistry - I (Lab)	0-1
BMS 312	Physiology -I (Th)	3-0
BMS 314	Physiology -I (Lab)	0-1
ENG 305	Functional English	3-0

2nd Semester

Course Code	Course Title	Cr. Hrs. 20
PCU 322	Physical Pharmacy - II (Th)	3-0
PCU 324	Physical Pharmacy - II (Lab)	0-1
PCH 310	Organic Chemistry - II (Th)	3-0
PCH 312	Organic Chemistry - II (Lab)	0-1
PCH 314	Biochemistry - II (Th)	2-0
PCH 316	Biochemistry - II (Lab)	0-1
BMS 316	Anatomy & Histology (Th)	2-0
BMS 318	Anatomy & Histology (Lab)	0-1
BMS 320	Physiology - II (Th)	3-0
BMS 322	Physiology - II (Lab)	0-1
GE 312/313	Islamic Studies/Value, Ethics and Society (For Non Muslims)	2-0

2nd Professional Pharm-D

3rd Semester

Course Code	Course Title	Cr. Hrs. 21
PCU 421	Drug Delivery Systems and Formulation Science - I (Th)	3-0
PCU 423	Drug Delivery Systems and Formulation Science - I (Lab)	0-1
PCG 406	Pharmacology and Therapeutics - I (Th)	3-0
PCG 408	Pharmacology and Therapeutics - I (Lab)	0-1
PCN 401	Pharmacognosy - (Basic I) (Th)	3-0
PCN 402	Pharmacognosy - (Basic I) (Lab)	0-1
BMS 410	Pathology (Th)	2-0
BMS 412	Pathology (Lab)	0-1
PMB 410	Basic Pharmaceutical Microbiology (Th)	2-0
PMB 412	Basic Pharmaceutical Microbiology (Lab)	0-1
AIP 410	Artificial Intelligence in Pharmacy (Th)	2-0
AIP 412	Artificial Intelligence in Pharmacy (Lab)	0-1

4th Semester

Course Code	Course Title	Cr. Hrs. 19
PCU 425	Drug Delivery Systems and Formulation Science - II (Th)	3-0
PCU 427	Drug Delivery Systems and Formulation Science - II (Lab)	0-1
PMB 416	Applied Pharmaceutical Microbiology and Immunology (Th)	3-0
PMB 418	Applied Pharmaceutical Microbiology and Immunology (Lab)	0-1
AIP 412	Artificial Intelligence in Pharmacology and Therapeutics - II (Th)	3-0
AIP 414	Artificial Intelligence in Pharmacology and Therapeutics - II (Lab)	0-1
PCN 403	Pharmacognosy (Basic - II) (Th)	3-0
PCN 404	Pharmacognosy (Basic - II) (Lab)	0-1
GE 413	Pakistan Studies	2-0
QT 401	Understanding of Holy Quran-I (only for Muslims)	0-1
MR 401	Minority Rights in the Constitution of Pakistan-I (only for Non-Muslims)	1-0

3rd Professional Pharm-D

5th Semester

Course Code	Course Title	Cr. Hrs. 20
PCN 510	Pharmacognosy (Applied) (Th)	3-0
PCN 512	Pharmacognosy (Applied) (Lab)	0-1
PCA 510	Pharmaceutical Analysis-I [Instrumentation I] (Th)	3-0
PCA 512	Pharmaceutical Analysis-I [Instrumentation I] (Lab)	0-1
PCG 502	Pharmacology and Therapeutics-III (Th)	3-0
PCG 504	Pharmacology and Therapeutics-III (Lab)	0-1
PPH 510	Hospital and Community Pharmacy (Th)	2-0
PMA 510	Pharmaceutical Mathematics	3-0
GE 510	Ideology & Constitution of Pakistan (Th)	2-0
QT 500	Understanding of Holy Quran-II (only for Muslims)	0-1
MR 500	Minority Rights in the Constitution of Pakistan-II (only for Non-Muslims)	1-0

6th Semester

Course Code	Course Title	Cr. Hrs. 20
PCN 514	Pharmacognosy (Advanced) (Th)	3-0
PCN 516	Pharmacognosy (Advanced) (Lab)	0-1
PCU 518	Dispensing, Social & Administrative Pharmacy (Th)	0-2
PCA 514	Pharmaceutical Analysis-II [Instrumentation II] (Th)	3-0
PCA 516	Pharmaceutical Analysis-II [Instrumentation II] (Lab)	0-1
PCG 508	Pharmacology and Therapeutics-IV (Th)	3-0
PCG 510	Pharmacology and Therapeutics-IV (Lab)	0-1
ICT 501	Applications of ICT for Pharmacy (Th)	2-0
ICT 502	Applications of ICT for Pharmacy (Lab)	0-1
PMA 512	Biostatistics	3-0

4th Professional Pharm-D

7th Semester

Course Code	Course Title	Cr. Hrs. 20
PCU 604	Industrial Pharmacy - I (Th)	3-0
PCU 606	Industrial Pharmacy - I (Lab)	0-1
PCU 608	Biopharmaceutics and Pharmacokinetics - I (Th)	3-0
PCU 612	Biopharmaceutics and Pharmacokinetics - I (Lab)	0-1
PCP 610	Clinical Pharmacy-I (Th)	3-0
PCP 612	Clinical Pharmacy-I (Lab)	0-1
PCP 614	Pharmaceutical Quality Management System	3-0
ENG 611	Expository Writing	3-0
MGT 601	Entrepreneurship	2-0

8th Semester

Course Code	Course Title	Cr. Hrs. 19
PCU 614	Industrial Pharmacy - II (Th)	3-0
PCU 616	Industrial Pharmacy - II (Lab)	0-1
PCU 618	Biopharmaceutics and Pharmacokinetics - II (Th)	3-0
PCU 620	Biopharmaceutics and Pharmacokinetics - II (Lab)	0-1
PCP 616	Clinical Pharmacy-II (Th)	3-0
PCP 618	Clinical Pharmacy-II (Lab)	0-1
GE 610	Civic Engagement & Community Health in Pharmacy Practice (Th)	1-0
GE 611	Civic Engagement & Community Health in Pharmacy Practice (Lab)	0-1
PCU 622	Pharmaceutical Quality Control (Th)	2-0
PCU 624	Pharmaceutical Quality Control (Lab)	0-1
MGT 603	Pharmaceutical Management and Marketing	2-0

5th Professional Pharm-D

9th Semester

Course Code	Course Title	Cr. Hrs. 21
PCU 712	Pharmaceutical Technology - I (Th)	3-0
PCU 714	Pharmaceutical Technology - I (Lab)	0-1
PRS 710	Pharmaceutical Regulatory Science-I	3-0
PCH 710	Medicinal Chemistry-I (Th)	3-0
PCH 712	Medicinal Chemistry-I (Lab)	0-1
PCP 710	Advanced Clinical Pharmacy-I (Th)	3-0
PCP 712	Advanced Clinical Pharmacy-I (Lab)	0-1
PCG 710	Clinical Pharmacology (Th)	2-0
PCG 712	Clinical Pharmacology (Lab)	0-1
PPE 750	Clinical Pharmacy Clerkship	0-3

10th Semester

Course Code	Course Title	Cr. Hrs. 20
PCU 716	Pharmaceutical Technology - II (Th)	3-0
PCU 718	Pharmaceutical Technology - II (Lab)	0-1
PRS 712	Pharmaceutical Regulatory Science-II	3-0
PCH 714	Medicinal Chemistry-II (Th)	3-0
PCH 716	Medicinal Chemistry-II (Lab)	0-1
PCP 714	Advanced Clinical Pharmacy-II (Th)	3-0
PCP 716	Advanced Clinical Pharmacy-II (Lab)	0-1
GE 710	Bioethics	2-0
RES 760	Capstone Project	0-3

Program Learning Outcomes/
Graduates Attributes

PO-1: 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.

PO-2: 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.

PO-3: 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.

PO-4: Modern tool usage: Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.

PO-5: 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 wellbeing.

PO-6: 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).

PO- 7: 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.

PO-8: 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.

PO-9: The Pharmacist and society: Environment and sustainability 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.

PO-10: Environmental & Sustainability: Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO-11: 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.