

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.

Number of Seats

Morning Shift	60
Evening Shift	40

Vision

To impart research-oriented Pharmacy education in the country with visionary abilities.

Mission

The mission of the department is to prepare pharmacy graduates whose scientific knowledge and skills enable them to work with the pace to ensure the quality in the design, manufacture, distribution, safe and effective use of pharmaceuticals in the society and clinical setting.

Program Offered:
PHARM-D
 (Doctor of Pharmacy)

Pharm-D (Doctor of Pharmacy)

Program Code	081	Minimum Duration	10 Semesters, 5 Years
Number Of Courses	75	Maximum Duration	20 Semesters, 10 Years
Credit Hours	202	Minimum CGPA Required To Earn Degree	2.00

ELIGIBILITY :

F.Sc. (Pre-Medical) or A-Levels 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 OUTCOMES:

After completion of the program, students are able to;

- Contribute and update graduates regarding the advancements in pharmaceutical science and capable of catering the needs of national and international health organizations.
- Apply knowledge gained in the department to contribute in national or international organizations.
- Demonstrate efficient oral and written communication skills.
- Achieve problem solving and decision making skills.

1ST PROFESSIONAL PHARM-D

SEMESTER 1

Course Code	Course Title	Cr. Hrs. 22
PHC 301	Pharmaceutical Chemistry-I (Organic-I) (Th)	3-0
PCG 303	Pharmaceutical Biochemistry-I(Th)	3-0
PCG 305	Pharmaceutical Biochemistry-I(Lab)	0-2
PCU 307	Pharmaceutics-I (Physical Pharmacy-I) (Th)	3-0
PCG 309	Physiology & Histology-I (Th)	3-0
PCG 311	Physiology & Histology-I (Lab)	0-2
PCG 313	Anatomy	3-0
PMA 315	Pharmaceutical Mathematics	3-0

SEMESTER 2

Course Code	Course Title	Cr. Hrs. 21
PHC 302	Pharmaceutical Chem-II (Organic-II)(Th)	3-0
PHC 304	Pharmaceutical Chem-II (Organic-II) (Lab)	0-2
PCG 306	Pharmaceutical Biochemistry-II(Th)	3-0
PCU 308	Pharmaceutics-II (Physical Pharmacy-II) (Th)	3-0
PCU 310	Pharmaceutics-II (Physical Pharmacy) (Lab)	0-2
PCG 312	Physiology & Histology-II (Th)	3-0
PMA 314	Biostatistics	3-0
ENG 112	English A (Functional English)	2-0

Pharm-D (Doctor of Pharmacy)**2ND PROFESSIONAL PHARM-D
SEMESTER 3**

Course Code	Course Title	Cr. Hrs. 22
PCU 401	Pharmaceutics-III (Pharmaceutical Preparations-I) (Th)	3-0
PCG 403	Pharmacology & Therapeutics-I (General-I) (Th)	3-0
PCN 405	Pharmacognosy-I (Th)	3-0
PCN 407	Pharmacognosy-I (Lab)	0-2
PCU 409	Pharmaceutical Microbiology-I (Th)	3-0
PCU 411	Pharmaceutical Microbiology-I (Lab)	0-2
GS 413	Pakistan Studies	2-0
ENG 113	English B (Communication & Skill Writing)	4-0

SEMESTER 4

Course Code	Course Title	Cr. Hrs. 19
PCU 402	Pharmaceutics-IV (Pharmaceutical Preparations-II) (Th)	3-0
PCU 404	Pharmaceutics-IV (Pharmaceutical Preparations-II) (Lab)	0-2
PCG 406	Pharmacology & Therapeutics-II (General-II) (Th)	3-0
PCG 408	Pharmacology & Therapeutics-II (General-II) (Lab)	0-2
PCN 410	Pharmacognosy-II (Th)	3-0
PCU 412	Pharmaceutical Microbiology-II (Th)	3-0
GS 414	Islamiyat	3-0

**3RD PROFESSIONAL PHARM-D
SEMESTER 5**

Course Code	Course Title	Cr. Hrs. 21
PCG 501	Pathology (Th)	3-0
PCG 503	Pathology (Lab)	0-2
PCG505	Pharmacology & Therapeutics-III (Systemic Pharmacology-I) (Th)	3-0
PCN 507	Pharmacognosy-III (Th)	3-0
PHC 509	Pharmaceutical Chemistry-III (Instrumentations-I) (Th)	3-0
PCU 511	Pharmaceutics-V (Dispensing Pharmacy) (Th)	3-0
PCU 513	Pharmaceutics-V (Dispensing Pharmacy) (Lab)	0-2
PCG 515	Pharmacology & Therapeutics-IV (Systemic Pharmacology-II) (Lab)	0-2

SEMESTER 6

Course Code	Course Title	Cr. Hrs. 21
PCS 502	Computer & its Applications in Pharmacy (Th)	3-0
PCS 504	Computer & its Applications in Pharmacy (Lab)	0-2
PCG 506	Pharmacology & Therapeutics-IV (Systemic Pharmacology-II) (Th)	3-0
PCN 508	Pharmacognosy-IV (Th)	3-0
PCN 510	Pharmacognosy-IV (Lab)	0-2
PHC 512	Pharmaceutical Chemistry-IV (Instrumentations-II) (Th)	3-0
PHC 514	Pharmaceutical Chemistry-IV (Instrumentations-II) (Lab)	0-2
PCU 516	Pharmaceutics-VI (Community Pharmacy) (Th)	3-0

4TH PROFESSIONAL PHARM-D SEMESTER 7

Course Code	Course Title	Cr. Hrs. 19
PCU 601	Pharmaceutics-VII (Hospital Pharmacy-I) (Th)	3-0
PCU 603	Pharmaceutics-VIII (Clinical Pharmacy-I) (Th)	3-0
PCU 605	Pharmaceutics-IX (Industrial Pharmacy-I) (Th)	3-0
PCU 607	Pharmaceutics-X (Bio Pharmacy-I) (Th)	3-0
PCU 609	Pharmaceutics-X (Bio Pharmacy-II) (Lab)	0-2
PHC 611	Pharmaceutical Chemistry (Quality Management-I) (Th)	3-0
PHC 613	Pharmaceutical Chemistry (Quality Management-I) (Lab)	0-2

SEMESTER 8

Course Code	Course Title	Cr. Hrs. 20
PCU 602	Pharmaceutics-VII (Hospital Pharmacy-II) (Th)	3-0
PCU 604	Pharmaceutics-VIII Clinical Pharmacy-VIII	3-0
PCU 606	Pharmaceutics-VIII Clinical Pharmacy-II) (Lab)	0-2
PCU 608	Pharmaceutics-IX (Industrial Pharmacy-II) (Lab)	0-2
PCU 610	Pharmaceutics-X (Industrial Pharmacy -II) (Lab)	0-2
PCU 612	Pharmaceutics-X (Bio Pharmaceutics-X	3-0
PHC 614	Pharmaceutical Chemistry (Quality Management-II) (Th)	3-0
PHC 616	Pharmaceutical Chemistry Quality Management-II (Lab)	0-2

5TH PROFESSIONAL PHARM-D SEMESTER 9

Course Code	Course Title	Cr. Hrs. 19
PHC 701	Pharmaceutical Chemistry-V (Medicinal-I) (Th)	3-0
PHC 703	Pharmaceutical Chemistry-V (Lab)	0-2
PCU 705	Pharmaceutics-XVII (Clinical Pharmacy-III) (Th)	3-0
PCU 707	Pharmaceutics-XVII (Pharmaceutical Technology-I) (Th)	3-0
PCU 709	Pharmaceutics-XVII (Pharmaceutical Technology-I) (Lab)	0-2
PCU 711	Pharmaceutics-XIX (Forensic Pharmacy-I) (Th)	3-0
PCU 713	Pharmaceutics-XX (Pharmaceutical Management & Marketing-I) (Th)	3-0

SEMESTER 10

Course Code	Course Title	Cr. Hrs. 17
PHC 702	Pharmaceutical Chemistry-V (Medicinal-II) (Th)	3-0
PCU 704	Pharmaceutics-XVII (Clinical Pharmacy-IV)(Th)	3-0
PCU 706	Pharmaceutics-XVII (Clinical Pharmacy-IV) (Lab)	0-2
PCU 708	Pharmaceutics-XVII (Pharmaceutical Technology-II) (Th)	3-0
PCU 710	Pharmaceutics-XIX (Forensic Pharmacy-II)(Th)	3-0
PCU 712	Pharmaceutics-XX (Pharmaceutical Management & Marketing-II) (Th)	3-0