



Doctor of Pharmacy

(Pharm.D.)

Admission Requirements

- At least 60% marks in F.Sc. (Pre-Medical)/A Levels (Biology, Chemistry & Physics) or equivalent
- All applicants are required to pass UCP Admission Test

Degree Requirements

Each candidate for Pharm.D degree is required to complete 198 Cr. Hrs. with a minimum CGPA of 2.50 on a scale of 4.00 as per the following detail:

Area		Cr. Hrs.
a)	Pharmaceutics Courses	56
b)	Pharmaceutical Chemistry Courses	32
c)	Basic Medical Sciences Courses	32
d)	Pharmacognosy Courses	16
e)	Pharmacy Practice Courses	41
f)	Mathematics and Bio-statistics Courses	06
g)	Computer Science Courses	04
h)	Humanities Courses	11
Tota	l	198

a) Pharmaceutics Courses (56 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Pharmaceutics-IA(Physical Pharmacy)	PHPT1113	3
Pharmaceutics-IB (Physical Pharmacy)	PHPT1123	3
Pharmaceutics-IIA (Dosage Forms Science)	PHPT2133	3
Pharmaceutics-IIB (Dosage Forms Science)	PHPT2143	3
Pharmaceutics-IIIA (Pharmaceutical Microbiology &	PHPT2153	3
Immunology)	1111112100	U
Pharmaceutics-IIIB (Pharmaceutical Microbiology &	PHPT2163	3
Immunology)	111112100	
Pharmaceutics-IVA(Industrial Pharmacy)	PHPT4173	3
Pharmaceutics-IVB(Industrial Pharmacy)	PHPT4183	3
Pharmaceutics-VA (Biopharmaceutics &	PHPT4213	3
Pharmacokinetics)	1 1 1 1 12 10	G
Pharmaceutics-VB (Biopharmaceutics &	PHPT4223	3
Pharmacokinetics)		Ü
Pharmaceutics-VIA (Pharmaceutical Quality	PHPT4233	3
Management)		-
Pharmaceutics-VIB (Pharmaceutical Quality	PHPT4243	3
Management)		-
Pharmaceutics-VIIA (Pharmaceutical Technology)	PHPT5253	3
Pharmaceutics-VII (Pharmaceutical Technology)	PHPT5263	3
Pharmaceutics-IA (Physical Pharmacy) Lab	PHPT1111	1
Pharmaceutics-IB (Physical Pharmacy) Lab	PHPT1121	1
Pharmaceutics-IIA (Dosage Forms Science) Lab	PHPT2131	1
Pharmaceutics-IIB (Dosage Forms Science) Lab	PHPT2141	1
Pharmaceutics-IIIA (Pharmaceutical Microbiology &	PHPT2151	1
Immunology) Lab		
Pharmaceutics-IIIB (Pharmaceutical Microbiology &	PHPT2161	1
Immunology) Lab		
Pharmaceutics-IVA(Industrial Pharmacy) Lab	PHPT4171	1
Pharmaceutics-IVB (Industrial Pharmacy) Lab	PHPT4181	1
Pharmaceutics-VA (Biopharmaceutics &	PHPT4211	1
Pharmacokinetics) Lab		
Pharmaceutics-VB (Biopharmaceutics &	PHPT4221	1
Pharmacokinetics) Lab		
Pharmaceutics-VIA (Pharmaceutical Quality	PHPT4231	1
Management) Lab		
Pharmaceutics-VIB (Pharmaceutical Quality	PHPT4241	1
Management) Lab		
Pharmaceutics-VIIA (Pharmaceutical Technology) Lab	PHPT5251	1
Pharmaceutics-VIIB (Pharmaceutical Technology) Lab	PHPT5261	1

b) Pharmaceutical Chemistry Courses (32 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Pharmaceutical Chemistry-IA (Organic)	PHPC1313	3
Pharmaceutical Chemistry-IB (Organic)	PHPC1323	3
Pharmaceutical Chemistry-IIA (Biochemistry)	PHPC1333	3
Pharmaceutical Chemistry-IIB (Biochemistry)	PHPC1343	3
Pharmaceutical Chemistry-IIIA (Pharmaceutical	PHPC3353	3
Analysis)		
Pharmaceutical Chemistry-IIIB (Pharmaceutical	PHPC3363	3
Analysis)		
Pharmaceutical Chemistry-IVA (Medicinal Chemistry)	PHPC5373	3
Pharmaceutical Chemistry-IVB (Medicinal Chemistry)	PHPC5383	3
Pharmaceutical Chemistry-IA (Organic) Lab	PHPC1311	1
Pharmaceutical Chemistry-IB (Organic) Lab	PHPC1321	1
Pharmaceutical Chemistry-IIA (Biochemistry) Lab	PHPC1331	1
Pharmaceutical Chemistry-IIB (Biochemistry) Lab	PHPC1341	1
Pharmaceutical Chemistry-IIIA (Pharmaceutical	PHPC3351	1
Analysis) Lab		
Pharmaceutical Chemistry-IIIB (Pharmaceutical	PHPC3361	1
Analysis) Lab		
Pharmaceutical Chemistry-IVA (Medicinal Chemistry)	PHPC5371	1
Lab		
Pharmaceutical Chemistry-IVB (Medicinal Chemistry)	PHPC5381	1
Lab		

c) Medical Sciences Courses (32 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Physiology-A	PHMS1513	3
Physiology-B	PHMS1523	3
Anatomy & Histology	PHMS1533	3
Pharmacology and Therapeutics-IA	PHMS2543	3
Pharmacology and Therapeutics-IB	PHMS2553	3
Pharmacology and Therapeutics-IIA	PHMS3563	3
Pharmacology and Therapeutics-IIB	PHMS3573	3
Pathology	PHMS3583	3
Physiology-A Lab	PHMS1511	1
Physiology-B Lab	PHMS1521	1
Anatomy & Histology Lab	PHMS1531	1
Pharmacology and Therapeutics-IA Lab	PHMS2541	1
Pharmacology and Therapeutics-IB Lab	PHMS2551	1
Pharmacology and Therapeutics-IIA Lab	PHMS3561	1
Pharmacology and Therapeutics-IIB Lab	PHMS3571	1
Pathology Lab	PHMS3581	1

d) Pharmacognosy Courses (16 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Pharmacognosy-IA (Basic)	PHPG2713	3
Pharmacognosy-IB (Basic)	PHPG2723	3
Pharmacognosy-IIA (Advanced)	PHPG3733	3
Pharmacognosy-IIB (Advanced)	PHPG3743	3
Pharmacognosy-IA (Basic) Lab	PHPG2711	1
Pharmacognosy-IB (Basic) Lab	PHPG2721	1
Pharmacognosy-IIA (Advanced) Lab	PHPG3731	1
Pharmacognosy-IIB (Advanced) Lab	PHPG3741	1

e) Pharmacy Practice Courses (41 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Pharmacy Practice-IIA (Dispensing Pharmacy)	PHPP3813	3
Pharmacy Practice-IIB (Community, Social & Adminis-	PHPP3823	3
trative Pharmacy)		
Pharmacy Practice-IVA (Hospital Pharmacy)	PHPP4833	3
Pharmacy Practice-IVB (Hospital Pharmacy)	PHPP4843	3
Pharmacy Practice-VA (Clinical Pharmacy-I)	PHPP4853	3
Pharmacy Practice-VB (Clinical Pharmacy-I)	PHPP4863	3
Pharmacy Practice-VIA (Advanced Clinical Pharmacy-	PHPP5873	3
Pharmacy Practice-VIB (Advanced Clinical Pharmacy-	PHPP5883	3
Pharmacy Practice-VIIA (Forensic Pharmacy)	PHPP5913	3
Pharmacy Practice-VIIB (Forensic Pharmacy)	PHPP5923	3
Pharmacy Practice-VIIIA (Pharmaceutical	PHPP5933	3
Management & Marketing)		
Pharmacy Practice-VIIIB (Pharmaceutical	PHPP5943	3
Management & Marketing)		
Pharmacy Practice-IIA (Dispensing Pharmacy) Lab	PHPP3811	1
Pharmacy Practice-VA (Clinical Pharmacy-I) Lab	PHPP4851	1
Pharmacy Practice-VB (Clinical Pharmacy-I) Lab	PHPP4861	1
Pharmacy Practice-VIA (Advanced Clinical Pharmacy-	PHPP5871	1
II) Lab		
Pharmacy Practice-VIB (Advanced Clinical Pharmacy-	PHPP5881	1
II) Lab		
Pharmacy Practice-VIIA (Forensic Pharmacy) Pharmacy Practice-VIIB (Forensic Pharmacy) Pharmacy Practice-VIIIA (Pharmaceutical Management & Marketing) Pharmacy Practice-VIIIB (Pharmaceutical Management & Marketing) Pharmacy Practice-IIA (Dispensing Pharmacy) Lab Pharmacy Practice-VA (Clinical Pharmacy-I) Lab Pharmacy Practice-VB (Clinical Pharmacy-I) Lab Pharmacy Practice-VIA (Advanced Clinical Pharmacy-II) Lab Pharmacy Practice-VIA (Advanced Clinical Pharmacy-III) Lab Pharmacy Practice-VIB (Advanced Clinical Pharmacy-III) Lab	PHPP5923 PHPP5933 PHPP5943 PHPP3811 PHPP4851 PHPP4861 PHPP5871	3

f) Mathematics and Bio-statistics Courses (06 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Pharmacy Practice-IA (Pharmaceutical Mathematics)) PHMT2013	3
Pharmacy Practice-IB (Bio-Statistics)	PHMT2023	3

g) Computer Science Courses (04 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
Pharmacy Practice-III (Computer and its Applications	PHCS3013	3
in Pharmacy)		
Pharmacy Practice-III (Computer and its Applications	PHCS3011	1
in Pharmacy) Lab		

h) Humanities Courses (11 Cr. Hrs.)

Course Title	Code	Cr. Hrs.
English-A (Functional English)	PHHU1012	2
English-B (Communication & Writing Skills)	PHHU1024	4
Islamic Studies	PHHU2033	3
Pakistan Studies	PHHU2042	2

Community Service (PH3000)

Each student is required to complete 65 hours community work, usually after 8th semester which would be a prerequisite for the award of degree.

Programme Duration

This is a five-year degree programme comprising of 10 semesters. There is a Fall and a Spring semester in each year. The summer semester is utilized for deficiency courses. The maximum duration to complete the Pharm.D. programme is 7 years.

Scheme of Studies

Pharmacy (Pharm.D.)

Semester I (22 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.	Category
1	PHHU1012	English-A (Functional English)	2	Humanities
2	PHPT1113	Pharmaceutics-IA (Physical Pharmacy)	3	Pharmaceutics
3	PHPT1111	Pharmaceutics-IA (Physical Pharmacy) Lab	1	Pharmaceutics
4	PHPC1313	Pharmaceutical Chemistry-IA (Organic)	3	Pharmaceutical Chemistry
5	PHPC1311	Pharmaceutical Chemistry-IA (Organic)	1	Pharmaceutical Chemistry
6	PHPC1333	Pharmaceutical Chemistry-IIA - (Biochemistry)	3	Pharmaceutical Chemistry
7	PHPC1331	Pharmaceutical Chemistry-IIA (Biochemistry) Lab	1	Pharmaceutical Chemistry
8	PHMS1513	Physiology-A	3	Medical Sciences
9	PHMS1511	Physiology-A Lab	1	Medical
10	PHMS1533	Anatomy & Histology	3	Sciences Medical
11	PHMS1531	Anatomy & Histology Lab	1	Sciences Medical Sciences

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Semester II (20 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.	Category
1	PHHU1024	English-B (Communication & Writing	4	Humanities
		skills)		
2	PHPT1123	Pharmaceutics-IB (Physical Pharmacy)	3	Pharmaceutics
3	PHPT1121	Pharmaceutics-IB (Physical Pharmacy)	1	Pharmaceutics
		Lab		
4	PHPC1323	Pharmaceutical Chemistry-IB (Organic)	3	Pharmaceutical
				Chemistry
5	PHPC1321	Pharmaceutical Chemistry-IB (Organic)	1	Pharmaceutical
		Lab		Chemistry
6	PHPC1343	Pharmaceutical Chemistry-IIB	3	Pharmaceutical
		(Biochemistry)		Chemistry
7	PHPC1341	Pharmaceutical Chemistry-IIB	1	Pharmaceutical
		(Biochemistry) Lab		Chemistry
8	PHMS1523	Physiology-B	3	Medical
				Sciences
9	PHMS1521	Physiology-B Lab	1	Medical
				Sciences

Semester III (22 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.	Category
1	PHHU2033	Islamic Studies	3	Humanities
2	PHPT2133	Pharmaceutics-IIA (Dosage Forms	3	Pharmaceutics
		Science)		
3	PHPT2131	Pharmaceutics-IIA (Dosage Forms	1	Pharmaceutics
		Science) Lab		
4	PHPT2153	Pharmaceutics-IIIA (Pharmaceutical	3	Pharmaceutics
		Microbiology & Immunology)		
5	PHPT2151	Pharmaceutics-IIIA (Pharmaceutical	1	Pharmaceutics
		Microbiology & Immunology) Lab		
6	PHMS2543	Pharmacology and Therapeutics-IA	3	Medical
				Sciences
7	PHMS2541	Pharmacology and Therapeutics-IA Lab	1	Medical
				Sciences
8	PHPG2713	Pharmacognosy-IA (Basic)	3	Pharmacognosy
9	PHPG2711	Pharmacognosy-IA (Basic) Lab	1	Pharmacognosy
10	PHMT2013	Pharmacy Practice-IA (Pharmaceutical	3	Mathematics
		Mathematics)		and Biostatistics

Semester IV (21 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.	Category
1	PHHU2042	Pakistan Studies	2	Humanities
2	PHPT2143	Pharmaceutics-IIB (Dosage Forms	3	Pharmaceutics
		Science)		
3	PHPT2141	Pharmaceutics-IIB (Dosage Forms	1	Pharmaceutics
		Science) Lab		
4	PHPT2163	Pharmaceutics-IIIB (Pharmaceutical	3	Pharmaceutics
		Microbiology & Immunology)		
5	PHPT2161	Pharmaceutics-IIIB (Pharmaceutical	1	Pharmaceutics
		Microbiology & Immunology) Lab		
6	PHMS2553	Pharmacology and Therapeutics-IB	3	Medical
				Sciences
7	PHMS2551	Pharmacology and Therapeutics-IB Lab	1	Medical
				Sciences
8	PHPG2723	Pharmacognosy-IB (Basic)	3	Pharmacognosy
9	PHPG2721	Pharmacognosy-IB (Basic) Lab	1	Pharmacognosy
10	PHMT2023	Pharmacy Practice-IB (Bio-statistics)	3	Mathematics
				and Biostatistics

Semester V (20 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.	Category
1	PHPP3813	Pharmacy Practice-IIA (Dispensing	3	Pharmacy Prac-
		Pharmacy)		tice
2	PHPP3811	Pharmacy Practice-IIA (Dispensing	1	Pharmacy Prac-
		Pharmacy) Lab		tice
3	PHPC3353	Pharmaceutical Chemistry-IIIA	3	Pharmaceutical
		(Pharmaceutical Analysis)		Chemistry
4	PHPC3351	Pharmaceutical Chemistry-IIIA	1	Pharmaceutical
		(Pharmaceutical Analysis) Lab		Chemistry
5	PHMS3563	Pharmacology and Therapeutics-IIA	3	Medical
				Sciences
6	PHMS3561	Pharmacology and Therapeutics-IIA	1	Medical
		Lab		Sciences
7	PHPG3733	Pharmacognosy-IIA (Advanced)	3	Pharmacognosy
8	PHPG3731	Pharmacognosy-IIA (Advanced) Lab	1	Pharmacognosy
9	PHMS3583	Pathology	3	Medical
				Sciences
10	PHMS3581	Pathology Lab	1	Medical
				Sciences



Semester VI (19 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.	Category
1	PHPP3823	Pharmacy Practice-IIB (Community,	3	Pharmacy
		Social & Administrative Pharmacy)		Practice
2	PHPC3363	Pharmaceutical Chemistry-IIIB	3	Pharmaceutical
		(Pharmaceutical Analysis)		Chemistry
3	PHPC3361	Pharmaceutical Chemistry-IIIB	1	Pharmaceutical
		(Pharmaceutical Analysis) Lab		Chemistry
4	PHMS3573	Pharmacology and Therapeutics-IIB	3	Medical
				Sciences
5	PHMS3571	Pharmacology and Therapeutics-IIB	1	Medical
		Lab		Sciences
6	PHPG3743	Pharmacognosy-IIB (Advanced)	3	Pharmacognosy
7	PHPG3741	Pharmacognosy-IIB (Advanced) Lab	1	Pharmacognosy
8	PHCS3013	Pharmacy Practice-III (Computer and its	3	Computer
		Applications in Pharmacy)		Science
9	PHCS3011	Pharmacy Practice-III (Computer and its	1	Computer
		Applications in Pharmacy) Lab		Science

Semester VII (19 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.	Category
1	PHPP4833	Pharmacy Practice-IVA (Hospital	3	Pharmacy
		Pharmacy)		Practice
2	PHPP4853	Pharmacy Practice-VA (Clinical	3	Pharmacy
		Pharmacy-I)		Practice
3	PHPP4851	Pharmacy Practice-VA (Clinical	1	Pharmacy
		Pharmacy-I) Lab		Practice
4	PHPT4173	Pharmaceutics-IVA (Industrial	3	Pharmaceutics
		Pharmacy)		
5	PHPT4171	Pharmaceutics-IVA (Industrial	1	Pharmaceutics
		Pharmacy) Lab		
6	PHPT4213	Pharmaceutics-VA (Biopharmaceutics &	3	Pharmaceutics
		Pharmacokinetics)		
7	PHPT4211	Pharmaceutics-VA (Biopharmaceutics &	1	Pharmaceutics
		Pharmacokinetics) Lab		
8	PHPT4233	Pharmaceutics-VIA (Pharmaceutical	3	Pharmaceutics
		Quality Management)		
9	PHPT4231	Pharmaceutics-VIA (Pharmaceutical	1	Pharmaceutics
		Quality Management) Lab		
		Quality Management) Lab		

Semester VIII (19 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.	Category
1	PHPP4843	Pharmacy Practice-IVB (Hospital	3	Pharmacy
		Pharmacy)		Practice
2	PHPP4863	Pharmacy Practice-VB (Clinical	3	Pharmacy
		Pharmacy-I)		Practice
3	PHPP4861	Pharmacy Practice-VB (Clinical	1	Pharmacy
		Pharmacy-I) Lab		Practice
4	PHPT4183	Pharmaceutics-IVB (Industrial	3	Pharmaceutics
		Pharmacy)		
5	PHPT4181	Pharmaceutics-IVB (Industrial	1	Pharmaceutics
		Pharmacy) Lab		
6	PHPT4223	Pharmaceutics-VB (Biopharmaceutics &	3	Pharmaceutics
		Pharmacokinetics)		
7	PHPT4221	Pharmaceutics-VB (Biopharmaceutics &	1	Pharmaceutics
		Pharmacokinetics) Lab		
8	PHPT4243	Pharmaceutics-VIB (Pharmaceutical	3	Pharmaceutics
		Quality Management)		
9	PHPT4241	Pharmaceutics-VIB (Pharmaceutical	1	Pharmaceutics
		Quality Management) Lab		

Semester IX (18 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.	Category
1	PHPT5253	Pharmaceutics-VIIA (Pharmaceutical	3	Pharmaceutics
		Technology)		
2	PHPT5251	Pharmaceutics-VIIA (Pharmaceutical	1	Pharmaceutics
		Technology) Lab		
3	PHPP5873	Pharmacy Practice-VIA (Advanced	3	Pharmacy
		Clinical Pharmacy-II)		Practice
4	PHPP5871	Pharmacy Practice-VIA (Advanced	1	Pharmacy
		Clinical Pharmacy-II) Lab		Practice
5	PHPP5913	Pharmacy Practice-VIIA (Forensic	3	Pharmacy
		Pharmacy)		Practice
6	PHPP5933	Pharmacy Practice-VIIIA	3	Pharmacy
		(Pharmaceutical Management &		Practice
		Marketing)		
7	PHPC5373	Pharmaceutical Chemistry-IVA	3	Pharmaceutical
		(Medicinal Chemistry)		Chemistry
8	PHPC5371	Pharmaceutical Chemistry-IVA	1	Pharmaceutical
		(Medicinal Chemistry) Lab		Chemistry

Semester X (18 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.	Category
1	PHPT5263	Pharmaceutics-VIIB (Pharmaceutical	3	Pharmaceutics
		Technology)		
2	PHPT5261	Pharmaceutics-VIIB (Pharmaceutical	1	Pharmaceutics
		Technology) Lab		
3	PHPP5883	Pharmacy Practice-VIB (Advanced	3	Pharmacy
		Clinical Pharmacy-II)		Practice
4	PHPP5881	Pharmacy Practice-VIB (Advanced	1	Pharmacy
		Clinical Pharmacy-II) Lab		Practice
5	PHPP5923	Pharmacy Practice-VIIB (Forensic	3	Pharmacy
		Pharmacy)		Practice
6	PHPP5943	Pharmacy Practice-VIIIB	3	Pharmacy
		(Pharmaceutical Management &		Practice
		Marketing)		
7	PHPC5383	Pharmaceutical Chemistry-IVB	3	Pharmaceutical
		(Medicinal Chemistry)		Chemistry
8	PHPC5381	Pharmaceutical Chemistry-IVB	1	Pharmaceutical
		(Medicinal Chemistry) Lab		Chemistry



M.Phil.

Pharmacy (Pharmaceutics)

Admission Requirements

- Pharm.D or B.Pharm from HEC & PCP recognized institution minimum 2.00/4.00 CGPA in the semester system or 50% marks in the annual system
- All applicants are required to pass the UCP Admission Test with a 50% score or the GRE/HAT General/equivalent test with a passing score of 50% followed by an interview by the Graduate Admission Committee

Degree Requirements

A student admitted to this programme will have to complete the following degree requirements:

- 24 Cr. Hrs. course work with 6 Cr. Hrs. Thesis
- Minimum CGPA of 2.50 on a scale of 4.00

Each candidate of M.Phil. programme is required to complete 30 Cr. Hrs. as per the following detail:

Area	l de la companya de	Cr. Hrs.
a)	Core Courses	06
b)	Specialization Courses	18
c)	Research Thesis/Project/Additional Courses	06
Tota	I	30

a) Core Courses

Course Title	Code	Cr. Hrs.
Biostatistics	PHPT6013	3
Research Methodology, Seminar & Project Writing	PHPT6023	3

b) Specialization Courses

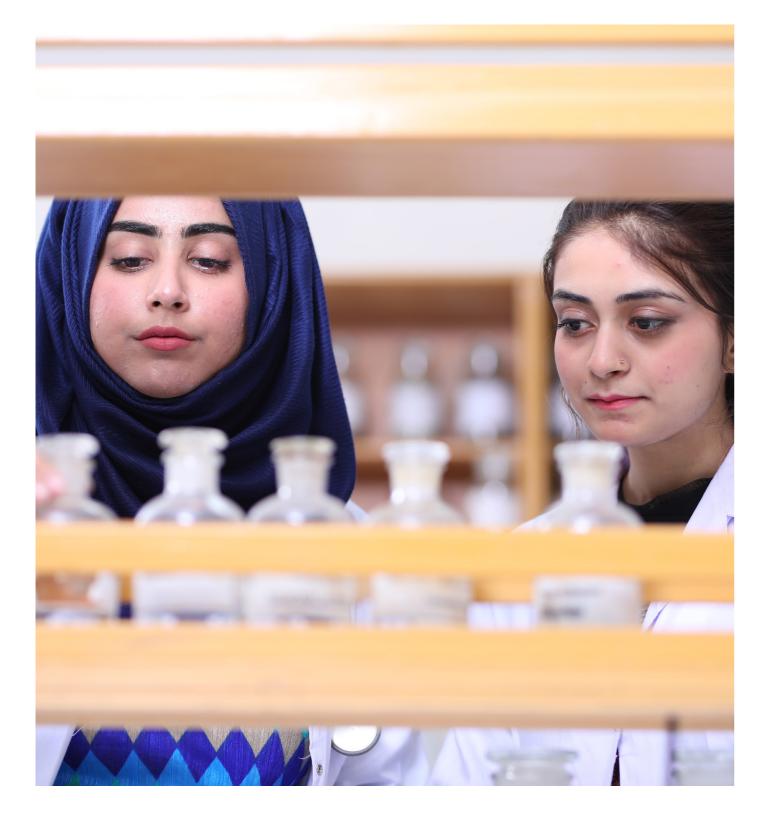
Course Title	Code	Cr. Hrs.
Advanced Pharmaceutics-I	PHPT6113	3
Applied Biopharmaceutics & Pharmacokinetics	PHPT6123	3
Pharmaceutical Microbiology	PHPT6133	3
Pharmaceutical Technology	PHPT6143	3
Clinical Pharmacy	PHPT6153	3
Advanced Pharmaceutics-II	PHPT6163	3

c) Research Thesis

Course Title	Code	Cr. Hrs.
Research Thesis	PHPT7126	6
Thesis Continuation	PHPT7121	1

Programme Duration

This is nominally a two-year degree programme comprising of 04 semesters. There is a Fall and a Spring semester each year. The maximum duration to complete the programme is 4 years.



M.Phil.

Pharmacy (Pharmaceutical Chemistry)

Admission Requirements

- Pharm. D or B. Pharm from HEC & PCP recognized institutions minimum 2.00/4.00 CGPA in the semester system or 50% marks in the annual system
- All applicants are required to pass the UCP Admission Test with a 50% score or the GRE/HAT General/equivalent test with a passing score of 50% followed by an interview by the Graduate Admission Committee

Degree Requirements

A student admitted to this programme will have to complete the following degree requirements:

- 24 Cr. Hrs. course work with 6 Cr. Hrs. Thesis
- Minimum CGPA of 2.50 on a scale of 4.00

Each candidate of the M.Phil. programme is required to complete 30 Cr. Hrs. as per the following detail:

Are	a	Cr. Hrs.
a)	Core Courses	06
b)	Specialization Courses	18
c)	Research Thesis/Project/Additional Courses	06
Tot	al	30

a) Core Courses

Course Title	Code	Cr. Hrs.
Biostatistics	PHPT6013	3
Research Methodology, Seminar & Project Writing	PHPT6023	3

b) Specialization Courses

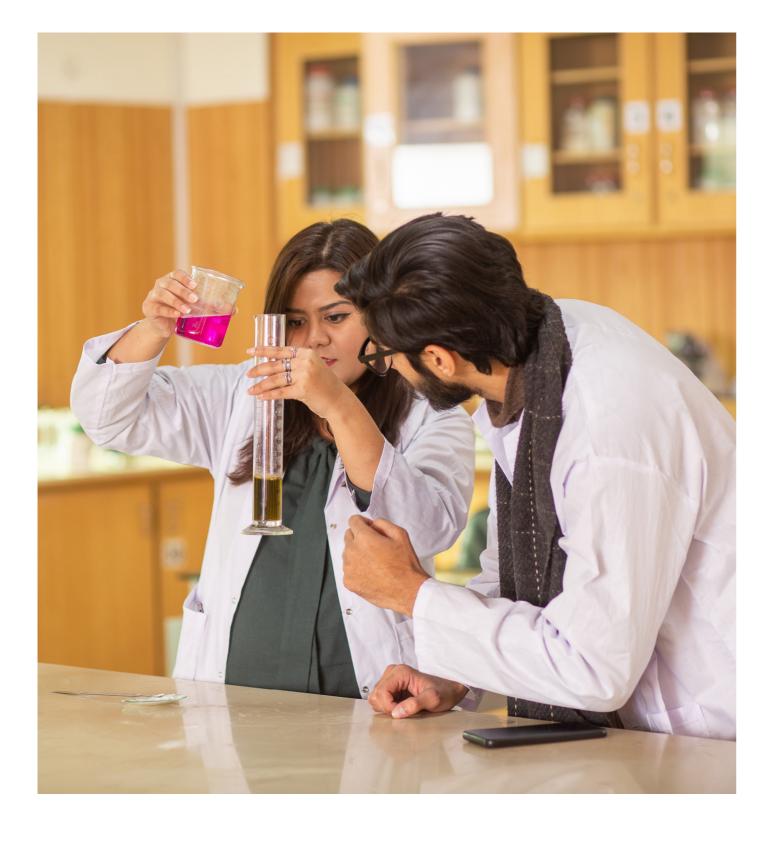
Course Title Code			
PHPC6313	3		
PHPC6323	3		
PHPC6333	3		
PHPT6343	3		
PHPT6353	3		
PHPT6363	3		
	PHPC6313 PHPC6323 PHPC6333 PHPT6343 PHPT6353		

c) Research Thesis

Course Title Code		Cr. Hrs.
Research and thesis	PHPC7346	6
Thesis Continuation	PHMS7121	1

Programme Duration

This is nominally a two-year degree programme comprising 04 semesters. There is a Fall and a Spring semester each year. The maximum duration to complete the programme is 4 years.



M.Phil.

Pharmacy (Pharmacology)

Admission Requirements

- Pharm. D or B. Pharm from HEC & PCP recognized institutions minimum 2.00/4.00 CGPA in semester system or 50% marks in annual system
- All applicants are required to pass the UCP Admission Test with a 50% score or the GRE/HAT General/equivalent test with a passing score of 50% followed by an interview by the Graduate Admission Committee

Degree Requirements

A student admitted to this programme will have to complete the following degree requirements:

- 24 Cr. Hrs. course work with 6 Cr. Hrs. Thesis
- Minimum CGPA of 2.50 on the scale of 4.00

Each candidate of the M.Phil. programme is required to complete 30 Cr. Hrs. as per the following detail:

Area	ı erile ili bir	Cr. Hrs.
a)	Core Courses	06
b)	Specialization Courses	18
c)	Research Thesis/Project/Additional Courses	06
Tota	I	30

a) Core Courses

Course Title	Code	Cr. Hrs.
Biostatistics	PHPT6013	3
Research Methodology, Seminar & Project Writing	PHPT6023	3

b) Specialization Courses

Course Title	Code	Cr. Hrs.
Principles of Pharmacology	PHPC6513	3
System Pharmacology-1	PHPC6523	3
Molecular Pharmacology	PHPC6533	3
System Pharmacology-II	PHPT6543	3
Biochemical Pharmacology and Toxicology	PHPT6553	3
Biochemical Techniques	PHPT6563	3

c) Research Thesis

Course Title Code		Cr. Hrs.
Research and thesis	PHMS7126	6
Thesis Continuation	PHMS7121	1

Programme Duration

This is nominally a two-year degree programme comprising 04 semesters. There is a Fall and a Spring semester each year. The maximum duration to complete the programme is 4 years.



PhD

Pharmaceutics

The field of Pharmaceutics includes formulation development, drug designing, stability studies, method validation and further characterization for the evaluation of the developed formulation. To provide grounds for research in these areas, Faculty of Pharmacy, University of Central Punjab is focused to give opportunities to teachers and students to conduct their research under well facilitated environment. The program is supported by excellent teaching and laboratory infrastructure for the students. Different opportunities are available for the students and researchers in public as well as private sectors such as:

- International and national level PhD programs in the field of Pharmaceutics
- Academia Research facilities at research institutes
- Different industries such as food, pharmaceutical, biotechnology development of product is required for that pharmaceutical researcher
- Drugs Testing Laboratories specialized in Pharmaceutics
- Research in Forensic Pharmacy

Semester I (09 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.
1	PHPT8113	Advanced Pharmaceutics	3
2	PHPT8123	Pharmaceutical Microbiology and	3
		Biotechnology	
3	PHPT8133	Applied Biopharmaceutics and	3
		Pharmacokinetics	

Semester II (09 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.
1	PHPT8143	Drug Discovery and Development	3
2	PHPT8153	Clinical Pharmacy	3
3	PHPT8163	Pharmaceutical Technology	3

Semester III and onwards (30 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.
1	PHPT9130	Research and thesis	30

Admission Requirements

- MS/M.Phil. degree in the relevant discipline from a degree awarding institution recognized by the Higher Education Commission (HEC) and Pharmacy Council of Pakistan (PCP).
- At least 3.0 (on the scale of 4.0) CGPA in the MS/MPhil degree or 60% aggregate marks if the degree is earned from an annual system
- All applicants are required to pass the UCP Admission Test with a 60% score or a test equivalent to GRE/HAT General, conducted by testing bodies accredited by HEC with a passing score of 60% followed by an interview by the Graduate Admission Committee

Degree Requirements

The degree will be awarded according to the guidelines and policies issued by HEC/PCP/UCP from time to time.

Career Prospects

Graduates of the PhD Pharmaceutics program have diverse career opportunities, including:

Academic Positions: Assistant Professor and researcher in university/college.

Pharmaceutical Industry: Roles in formulation development, quality assurance, and drug regulatory affairs

Research Institutions: Positions in government and private research organizations

Regulatory Agencies: Consultants and evaluators for drug approval

Entrepreneurship: They can choose to start their pharmaceutical industry after fulfilling the legal requirements.



Pharmacy (Pharmaceutical Chemistry)

Pharmaceutical Chemistry is a dynamic field that merges principles of Chemistry and Pharmacy to design, develop, and analyze drugs. A PhD in Pharmaceutical Chemistry involves advanced study and research in this interdisciplinary science, focusing on the discovery, development, and optimization of pharmaceutical agents.

A PhD in Pharmaceutical Chemistry prepares graduates for a career at the forefront of drug discovery and development. It equips them with the knowledge, skills, and experience needed to tackle the challenges of modern pharmaceutical science and contribute to improving public health. The Faculty of Pharmacy, University of Central Punjab is dedicated to providing firm groundings in the field of drug designing, stability, method development, validation and quality control. The prime concern of the curriculum is to focus on laboratory experience supported by excellent teaching and infrastructure for the students.

Semester I (09 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.
1	PHPC8413	Lead Identification, Optimization and	3
		Development	
2	PHPC8423	Structure-Activity Relationship (SAR)	3
3	PHPC8433	Metal Complexes	3

Semester II (09 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.
1	PHPC8443	Stability of Drugs and Drug Products	3
2	PHPC8453	Pharmaceutical and Chemical Aspects of	3
3	PHPC8463	Drug Solubility	
		Drug Properties and Arithmetic Perspective	3

Semester III and onwards (30 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.
1	PHPT9130	Research and thesis	30

Admission Requirements

- MS/M.Phil. degree in the relevant discipline from a degree awarding institution recognized by the Higher Education Commission (HEC) and Pharmacy Council of Pakistan (PCP)
- At least 3.0 (on the scale of 4.0) CGPA in the MS/MPhil degree or 60% aggregate marks if the degree is earned from an annual system
- All applicants are required to pass the UCP Admission Test with a 60% score or a test equivalent to GRE/HAT General, conducted by testing bodies accredited by HEC with a passing score of 60% followed by an interview by the Graduate Admission Committee

Degree Requirements

The degree will be awarded according to the guidelines and policies issued by HEC/PCP/UCP from time to time.

Career Prospects

After obtaining a PhD in Pharmaceutical Chemistry, you will have several career opportunities in various sectors. Here are some potential career paths:

Research Scientist: You can work as a research scientist in pharmaceutical companies, government research organizations, or academic institutions. Your expertise in Pharmaceutical Chemistry will be valuable in developing new drug molecules, characterization, evaluation and improving drug efficacy and safety.

Product development Scientist: Product development scientists in a variety of industries, including food, biotechnology, and pharmaceutical science. As a product development scientist, you will be responsible for developing and optimizing new drug molecules along with their formulations.

Regulatory Affairs Specialist: Regulatory affairs professionals ensure that pharmaceutical products meet the necessary regulations and guidelines set by regulatory authorities. With your PhD in Pharmaceutical Chemistry, you can contribute to the regulatory aspects of drug development, including submission of applications and compliance with regulatory requirements.

Quality Control/Quality Assurance Manager: Pharmaceutical companies require professionals to oversee quality control and quality assurance processes. In this role, you would ensure that pharmaceutical products meet the required standards, conduct quality audits, and implement quality control procedures.

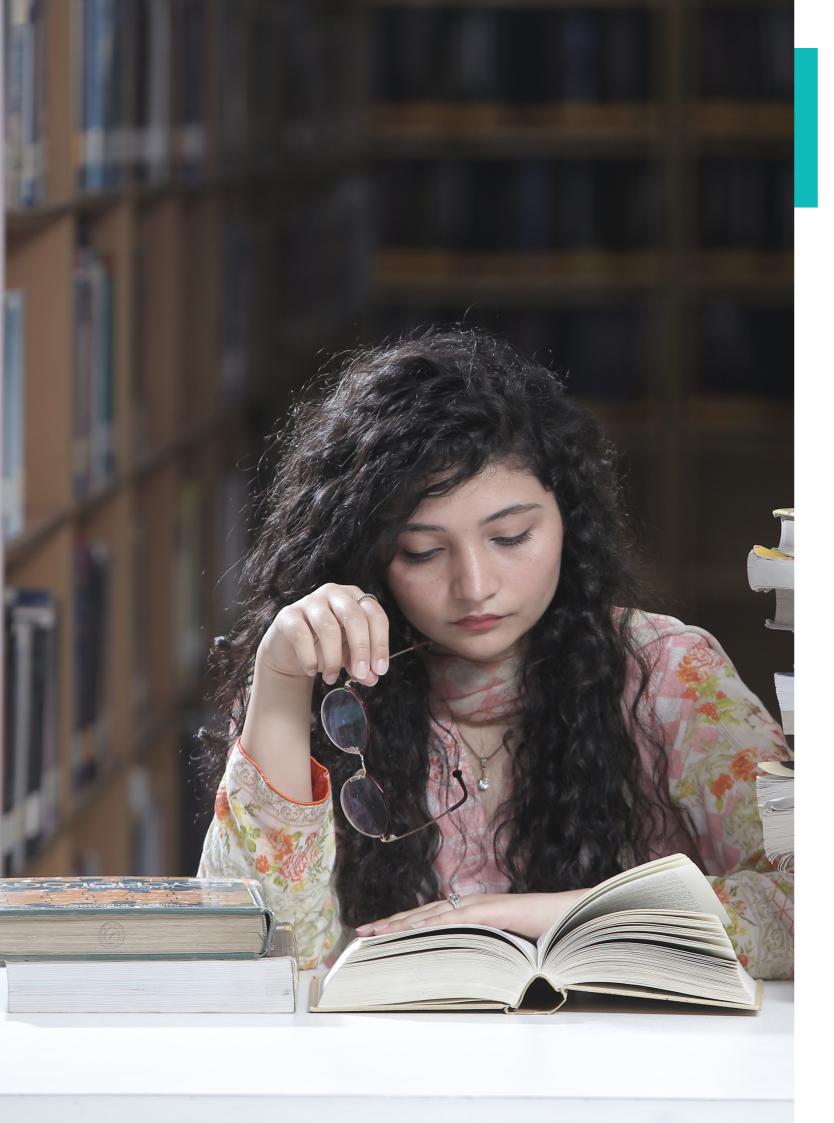
Academia and Teaching: With a PhD, you can pursue a career in academia as a professor or researcher. You can teach and mentor students, conduct independent research, publish scholarly articles, and contribute to the field of pharmaceutical chemistry through your work.

Pharmaceutical Consultant: As a consultant, you can provide expertise and advice to pharmaceutical companies, regulatory agencies, or healthcare organizations. Your knowledge of pharmaceutical chemistry can be valuable in solving complex problems related to testing, characterization and validation. Pharmaceutical chemist can play a key role in Drugs Testing Laboratories (DTLs)

Forensic & Nuclear Scientists: There are many other opportunities in the field of Pharmaceutical Chemistry like Forensic sciences. New drug development and nuclear Pharmacist.

Entrepreneurship: You may choose to start your own pharmaceutical company or venture focused on developing innovative drug delivery systems or specialized pharmaceutical products.

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PhD

Pharmacy (Pharmacology)

The PhD Pharmacology program at the University of Central Punjab Lahore is designed to provide advanced education and research training in the field of Pharmacology. The program aims to produce highly skilled researchers who can contribute to the advancement of pharmacological science, particularly in areas related to drug development, therapeutic interventions, and understanding the mechanisms of drug action. The prime concern of the curriculum is to focus on laboratory experience supported by excellent teaching and infrastructure for the students.

Semester I (09 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.
1	PHMS8513	Computational and Network Pharmacology	3
2	PHMS8523	Experimental Pharmacology	3
3	PHMS8533	Advanced Pharmacology-I	3

Semester II (09 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.
1	PHMS8563	Ethnopharmacology	3
2	PHMS8553	Molecular & Translational Pharmacology	3
3	PHMS8563	Advanced Pharmacology-II	3

Semester III and onwards (30 Cr. Hrs.)

S. N	o Course Code	Course Title	Cr. Hrs.
1	PHPT9130	Research and thesis	30

Admission Requirements

- MS/M.Phil. degree in the relevant discipline from a degree awarding institution recognized by the Higher Education Commission (HEC) and Pharmacy Council of Pakistan (PCP)
- At least 3.0 (on the scale of 4.0) CGPA in the MS/MPhil degree or 60% aggregate marks if the degree is earned from an annual system
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Degree Requirements

The degree will be awarded according to the guidelines and policies issued by HEC/PCP/UCP from time to time.

Career Prospects

Graduates of the PhD Pharmacology program have diverse career opportunities, including:

Academic Positions: Professors, lecturers, and researchers in universities and colleges

Pharmaceutical Industry: Roles in drug discovery, development, and regulatory affairs

Research Institutions: Positions in government and private research organizations

Healthcare Sector: Clinical pharmacologists and consultants in hospitals and healthcare settings

Regulatory Agencies: Advisors and evaluators for drug approval and safety monitoring

Entrepreneurship: You may choose to start your own pharmaceutical company or venture focused on developing innovative drug delivery systems or specialized pharmaceutical products.





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