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Faculty of

**Pharmaceutical
Sciences**

2023-24

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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
Total	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 & Immunology)	PHPT2153	3
Pharmaceutics-IIIB (Pharmaceutical Microbiology & Immunology)	PHPT2163	3
Pharmaceutics-IVA(Industrial Pharmacy)	PHPT4173	3
Pharmaceutics-IVB(Industrial Pharmacy)	PHPT4183	3
Pharmaceutics-VA (Biopharmaceutics & Pharmacokinetics)	PHPT4213	3
Pharmaceutics-VB (Biopharmaceutics & Pharmacokinetics)	PHPT4223	3
Pharmaceutics-VIA (Pharmaceutical Quality Management)	PHPT4233	3
Pharmaceutics-VIB (Pharmaceutical Quality Management)	PHPT4243	3
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 & Immunology) Lab	PHPT2151	1
Pharmaceutics-IIIB (Pharmaceutical Microbiology & Immunology) Lab	PHPT2161	1
Pharmaceutics-IVA(Industrial Pharmacy) Lab	PHPT4171	1
Pharmaceutics-IVB (Industrial Pharmacy) Lab	PHPT4181	1
Pharmaceutics-VA (Biopharmaceutics & Pharmacokinetics) Lab	PHPT4211	1
Pharmaceutics-VB (Biopharmaceutics & Pharmacokinetics) Lab	PHPT4221	1
Pharmaceutics-VIA (Pharmaceutical Quality Management) Lab	PHPT4231	1
Pharmaceutics-VIB (Pharmaceutical Quality Management) Lab	PHPT4241	1
Pharmaceutics-VIIA (Pharmaceutical Technology) Lab	PHPT5251	1
Pharmaceutics-VIIB (Pharmaceutical Technology) Lab	PHPT5261	1

b) Pharmaceutics Courses (56 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 Analysis)	PHPC3353	3
Pharmaceutical Chemistry-IIIB (Pharmaceutical Analysis)	PHPC3363	3
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 Analysis) Lab	PHPC3351	1
Pharmaceutical Chemistry-IIIB (Pharmaceutical Analysis) Lab	PHPC3361	1
Pharmaceutical Chemistry-IVA (Medicinal Chemistry) Lab	PHPC5371	1
Pharmaceutical Chemistry-IVB (Medicinal Chemistry) Lab	PHPC5381	1

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 & Administrative Pharmacy)	PHPP3823	3
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-II)	PHPP5873	3
Pharmacy Practice-VIB (Advanced Clinical Pharmacy-II)	PHPP5883	3
Pharmacy Practice-VIIA (Forensic Pharmacy)	PHPP5913	3
Pharmacy Practice-VIIB (Forensic Pharmacy)	PHPP5923	3
Pharmacy Practice-VIIIA (Pharmaceutical Management & Marketing)	PHPP5933	3
Pharmacy Practice-VIIIB (Pharmaceutical Management & Marketing)	PHPP5943	3
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-II) Lab	PHPP5871	1
Pharmacy Practice-VIB (Advanced Clinical Pharmacy-II) Lab	PHPP5881	1

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 in Pharmacy)	PHCS3013	3
Pharmacy Practice-III (Computer and its Applications in Pharmacy) Lab	PHCS3011	1

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) Lab	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 Sciences
10	PHMS1533	Anatomy & Histology	3	Medical Sciences
11	PHMS1531	Anatomy & Histology Lab	1	Medical Sciences

Semester II (20 Cr. Hrs.)

S. No	Course Code	Course Title	Cr. Hrs.	Category
1	PHHU1024	English-B (Communication & Writing skills)	4	Humanities
2	PHPT1123	Pharmaceutics-IB (Physical Pharmacy)	3	Pharmaceutics
3	PHPT1121	Pharmaceutics-IB (Physical Pharmacy) Lab	1	Pharmaceutics
4	PHPC1323	Pharmaceutical Chemistry-IB (Organic)	3	Pharmaceutical Chemistry
5	PHPC1321	Pharmaceutical Chemistry-IB (Organic) Lab	1	Pharmaceutical Chemistry
6	PHPC1343	Pharmaceutical Chemistry-IIIB (Biochem- istry)	3	Pharmaceutical Chemistry
7	PHPC1341	Pharmaceutical Chemistry-IIIB (Biochem- istry) Lab	1	Pharmaceutical 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 Science)	3	Pharmaceutics
3	PHPT2131	Pharmaceutics-IIA (Dosage Forms Science) Lab	1	Pharmaceutics
4	PHPT2153	Pharmaceutics-IIIA (Pharmaceutical Microbiology & Immunology)	3	Pharmaceutics
5	PHPT2151	Pharmaceutics-IIIA (Pharmaceutical Microbiology & Immunology) Lab	1	Pharmaceutics
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 Mathematics)	3	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-IIIB (Dosage Forms Science)	3	Pharmaceutics
3	PHPT2141	Pharmaceutics-IIIB (Dosage Forms Science) Lab	1	Pharmaceutics
4	PHPT2163	Pharmaceutics-IIIB (Pharmaceutical Microbiology & Immunology)	3	Pharmaceutics
5	PHPT2161	Pharmaceutics-IIIB (Pharmaceutical Microbiology & Immunology) Lab	1	Pharmaceutics
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 Pharmacy)	3	Pharmacy Practice
2	PHPP3811	Pharmacy Practice-IIA (Dispensing Pharmacy) Lab	1	Pharmacy Practice
3	PHPC3353	Pharmaceutical Chemistry-IIIA (Pharmaceutical Analysis)	3	Pharmaceutical Chemistry
4	PHPC3351	Pharmaceutical Chemistry-IIIA (Pharmaceutical Analysis) Lab	1	Pharmaceutical Chemistry
5	PHMS3563	Pharmacology and Therapeutics-IIA	3	Medical Sciences
6	PHMS3561	Pharmacology and Therapeutics-IIA Lab	1	Medical 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, Social & Administrative Pharmacy)	3	Pharmacy Practice
2	PHPC3363	Pharmaceutical Chemistry-IIIB (Pharmaceutical Analysis)	3	Pharmaceutical Chemistry
3	PHPC3361	Pharmaceutical Chemistry-IIIB (Pharmaceutical Analysis) Lab	1	Pharmaceutical Chemistry
4	PHMS3573	Pharmacology and Therapeutics-IIB	3	Medical Sciences
5	PHMS3571	Pharmacology and Therapeutics-IIB Lab	1	Medical Sciences
6	PHPG3743	Pharmacognosy-IIB (Advanced)	3	Pharmacognosy
7	PHPG3741	Pharmacognosy-IIB (Advanced) Lab	1	Pharmacognosy
8	PHCS3013	Pharmacy Practice-III (Computer and its Applications in Pharmacy)	3	Computer Science
9	PHCS3011	Pharmacy Practice-III (Computer and its Applications in Pharmacy) Lab	1	Computer Science

Semester VII (19 Cr. Hrs.)

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

Semester VIII (19 Cr. Hrs.)

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

Semester IX (18 Cr. Hrs.)

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

Semester X (18 Cr. Hrs.)

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



M.Phil.

Pharmacy (Pharmaceutics)

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 UCP Admission Test and interview

Degree Requirements

A student admitted to this programme will have to complete the degree requirements by following any one of the options given below:

- 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	Cr. Hrs.
a) Core Courses	06
b) Specialization Courses	18
c) Research Thesis/Project/Additional Courses	06
Total	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 UCP Admission Test and interview

Degree Requirements

A student admitted to this programme will have to complete the degree requirements by following any one of the options given below:

- 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:

Area	Cr. Hrs.
a) Core Courses	06
b) Specialization Courses	18
c) Research Thesis/Project/Additional Courses	06
Total	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.
Analytical Chemistry	PHPC6313	3
Drug Design and Development	PHPC6323	3
Chemistry of Natural Product and Phytochemistry	PHPC6333	3
Combinatorial & Stereochemistry Chemistry	PHPT6343	3
Chromatographic Techniques	PHPT6353	3
Advanced Medicinal Chemistry	PHPT6363	3

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 UCP Admission Test and interview

Degree Requirements

A student admitted in this programme will have to complete the degree requirements by following any one of the options given below:

- 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	Cr. Hrs.
a) Core Courses	06
b) Specialization Courses	18
c) Research Thesis/Project/Additional Courses	06
Total	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	PHPC6313	3
System Pharmacology-I	PHPC6323	3
Molecular Pharmacology	PHPC6333	3
System Pharmacology-II	PHPT6343	3
Biochemical Pharmacology and Toxicology	PHPT6353	3
Biochemical Techniques	PHPT6363	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.





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