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UNIVERSITY OF  
CENTRAL PUNJAB

📍 1 - Khayaban-e-Jinnah  
Road, Johar Town, Lahore.

# FACULTY OF PHARMACY



FACULTY OF PHARMACY





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# CAREER PROSPECTS

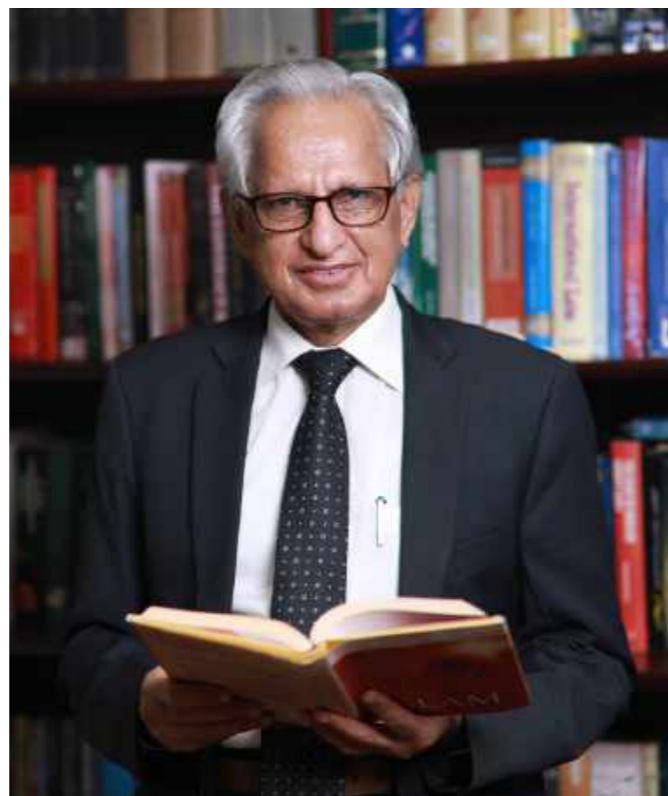
As a healthcare professional with a degree in Pharmacy, you may choose to become a hospital pharmacist or a community pharmacist at independent or chain pharmaceutical stores. This degree can also help you pursue a career in medical research.

## DEAN'S MESSAGE

It is my privilege to serve as the Dean of Faculty of Pharmacy at the prestigious University of Central Punjab, Lahore. The University of Central Punjab is one of the leading universities to aid in developing your career and making you a precious asset for the country. To meet the challenges of tomorrow, the university provides high standard professional education in a conducive environment to all our students. Faculty of Pharmacy (FOP) is home to an excellent faculty, dedicated students and innovative researchers working towards improving pharmacy education.

After the recognition of Pharma education by Pharmacy Council of Pakistan and Higher Education Commission in 2011, our Faculty has made enormous strides in meeting specific needs of both students and community, exploring new frontiers in drug discovery and development, pharmaceutical sciences, and translational clinical research. We have published more than 80 manuscripts in the past three years, in International journals. Here at the Faculty, we value innovation, learning, and the advancement of knowledge, research and its applications toward improving the use of medications in the society, pharmaceutical care, and professionalism. Diversity in all of its forms is the core thought of this Faculty's research and development. We continually endeavour to augment our betterment and extend our national and international influence through quality education and research.

We welcome your comments and suggestions for the improvement of pharmacy education and research. We expect you to participate in all healthy and academic activities of the Faculty. We invite you to join the University of Central Punjab for a future centred on you.



**Prof. Dr. Muhammad Jamshaid**

## HEAD OF DEPARTMENT



**Dr. Mahmood Ahmad**  
HOD of Pharmacy  
& Director ORIC

## OVERVIEW

Faculty of Pharmacy, University of Central Punjab, is accredited with the Pharmacy Council of Pakistan. An innovative, Doctor of Pharmacy (Pharm. D.) curriculum prepares pharmacy students to be healthcare leaders, and empowers graduates to be lifelong learners. Training of Graduate students in the Pharm. D. program provides an opportunity to work beside dedicated faculty, and take a leading role in advancing research in the pharmaceutical field. Faculty of Pharmacy has 11 state-of-the-art pharmacy laboratories fully equipped with instruments and chemicals to provide the best working environment.

## MISSION

Faculty of Pharmacy aims to prepare entry-level pharmacy professionals who can provide pharmaceutical care to an increasingly diverse patient population in a variety of practice environments.

The comprehensive, learner-centred educational program will foster critical thinking skills, embrace professionalism, and instil a commitment to life-long learning, community service, and leadership.

## GOAL

Faculty of Pharmacy at UCP aims to be prominently known for excellence in the preparation of pharmacy practitioners as educators of community, and other health care professionals and leaders for the betterment of patient care. It also aims to equip the students with practical knowledge to serve in all segments of pharmacy including industry, hospital, community, forensic science, Drug Testing Laboratory (DTL), Drug Regulatory Authority of Pakistan (DRAP) and similar others.



# OUR FACULTY



OUR FACULTY



## FACILITIES

- HEC-Approved Qualified & Experienced Faculty
- Curriculum Approved by HEC and Pharmacy Council of Pakistan
- Pharmacy Council of Pakistan (PCP) accredits the degree program
- Well-Equipped Lecture Theaters/ Laboratories
- Students are exposed to Pharmaceutical Industry, Hospital and Community Pharmacy during their studies. They are also offered internships in the area of their interest after the completion of degree

## ACHIEVEMENTS

Based on available facilities and competent faculty, the Pharmacy Council of Pakistan has approved 200 seats in Doctor of Pharmacy program.

The faculty of Pharmacy is also offering M.Phil. program in the subject of Pharmaceutics, while other M.Phil. programs in the subjects of Pharmaceutical Chemistry, Pharmacy Practice, Pharmacology and Pharmacognosy are in the pipeline and will be started very soon. Moreover, all the initial working has been completed to initiate a PhD program in Pharmaceutics.

Our Pharmacy graduates are serving in various fields in public and private organizations at provincial and federal levels as community pharmacists, hospital pharmacists, drug analysts, production pharmacists, quality control pharmacists, drug inspectors, drug controllers, pharmacovigilance pharmacists, forensic pharmacists and many more.

## PROGRAMS

- Doctor of Pharmacy (Pharm.D.)
- M.Phil. in Pharmacy (Pharmaceutics)



# SAMPLE MODULE



SAMPLE MODULE

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# DOCTOR OF PHARMACY (PHARM.D.)

## Admission Requirements

(i) F.Sc. (Pre-Medical) with minimum 60% marks

OR

(ii) A-Levels (Biology, Physics & Chemistry) or equivalent with minimum 60% marks, equivalence from IBCC will be required

## Degree Requirements

Each candidate of Pharm.D. degree is required to complete the following:

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

## 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

Course Title	Code	Cr. Hrs.
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) 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 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 of community work, usually after the 8th semester which would be a prerequisite for the award of degree.

#### Program Duration

This is a 5-year degree program 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. program is 7-years.



## SCHEME OF STUDIES DOCTOR OF PHARMACY (PHARM.D.)

### Semester I (22 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
PHHU1012	English-A (Functional English)	Humanities	2
PHPT1113	Pharmaceutics-IA (Physical Pharmacy)	Pharmaceutics	3
PHPT1111	Pharmaceutics-IA (Physical Pharmacy) Lab	Pharmaceutics	1
PHPC1313	Pharmaceutical Chemistry-IA (Organic)	Pharmaceutical Chemistry	3
PHPC1311	Pharmaceutical Chemistry-IA (Organic) Lab	Pharmaceutical Chemistry	1
PHPC1333	Pharmaceutical Chemistry-IIA -(Biochemistry)	Pharmaceutical Chemistry	3
PHPC1331	Pharmaceutical Chemistry-IIA (Biochemistry) Lab	Pharmaceutical Chemistry	1
PHMS1513	Physiology-A	Medical Sciences	3
PHMS1511	Physiology-A Lab	Medical Sciences	1
PHMS1533	Anatomy & Histology	Medical Sciences	3
PHMS1531	Anatomy & Histology Lab	Medical Sciences	1

### Semester II (20 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
PHHU1024	English-B (Communication & Writing skills)	Humanities	4
PHPT1123	Pharmaceutics-IB (Physical Pharmacy)	Pharmaceutics	3
PHPT1121	Pharmaceutics-IB (Physical Pharmacy) Lab	Pharmaceutics	1
PHPC1323	Pharmaceutical Chemistry-IB (Organic)	Pharmaceutical Chemistry	3
PHPC1321	Pharmaceutical Chemistry-IB (Organic) Lab	Pharmaceutical Chemistry	1
PHPC1343	Pharmaceutical Chemistry-IIB (Biochemistry)	Pharmaceutical Chemistry	3
PHPC1341	Pharmaceutical Chemistry-IIB (Biochemistry) Lab	Pharmaceutical	1
PHMS1523	Physiology-B	Medical Sciences	3
PHMS1521	Physiology-B Lab	Medical Sciences	1

### Semester III (22 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
PHHU2033	Islamic Studies	Humanities	3
PHPT2133	Pharmaceutics-IIA (Dosage Forms Science)	Pharmaceutics	3
PHPT2131	Pharmaceutics-IIA (Dosage Forms Science) Lab	Pharmaceutics	1
PHPT2153	Pharmaceutics-IIIA (Pharmaceutical Microbiology & Immunology)	Pharmaceutics	3
PHPT2151	Pharmaceutics-IIIA (Pharmaceutical Microbiology & Immunology) Lab	Pharmaceutics	1
PHMS2543	Pharmacology and Therapeutics-IA	Medical Sciences	3
PHMS2541	Pharmacology and Therapeutics-IA Lab	Medical Sciences	1
PHPG2713	Pharmacognosy-IA (Basic)	Pharmacognosy	3
PHPG2711	Pharmacognosy-IA (Basic) Lab	Pharmacognosy	1
PHMT2013	Pharmacy Practice-IA (Pharmaceutical Mathematics)	Mathematics And Biostatistics	3

### Semester IV (21 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
PHHU2042	Pakistan Studies	Humanities	2
PHPT2143	Pharmaceutics-IIB (Dosage Forms Science)	Pharmaceutics	3
PHPT2141	Pharmaceutics-IIB (Dosage Forms Science) Lab	Pharmaceutics	1
PHPT2163	Pharmaceutics-IIIB (Pharmaceutical Microbiology & Immunology)	Pharmaceutics	3
PHPT2161	Pharmaceutics-IIIB (Pharmaceutical Microbiology & Immunology) Lab	Pharmaceutics	1
PHMS2553	Pharmacology and Therapeutics-IB	Medical Sciences	3
PHMS2551	Pharmacology and Therapeutics-IB Lab	Medical Sciences	1
PHPG2723	Pharmacognosy-IB (Basic)	Pharmacognosy	3
PHPG2721	Pharmacognosy-IB (Basic) Lab	Pharmacognosy	1
PHMT2023	Pharmacy Practice-IB (Biostatistics)	Mathematics And Biostatistics	3

## Semester V (20 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
PHPP3813	Pharmacy Practice-IIA (Dispensing Pharmacy)	Pharmacy Practice	3
PHPP3811	Pharmacy Practice-IIA (Dispensing Pharmacy) Lab	Pharmacy Practice	1
PHPC3353	Pharmaceutical Chemistry-IIIA (Pharmaceutical Analysis)	Pharmaceutical Chemistry	3
PHPC3351	Pharmaceutical Chemistry-IIIA (Pharmaceutical Analysis) Lab	Pharmaceutical Chemistry	1
PHMS3563	Pharmacology and Therapeutics-IIA	Medical Sciences	3
PHMS3561	Pharmacology and Therapeutics-IIA Lab	Medical Sciences	1
PHPG3733	Pharmacognosy-IIA (Advanced)	Pharmacognosy	3
PHPG3731	Pharmacognosy-IIA (Advanced) Lab	Pharmacognosy	1
PHMS3583	Pathology	Medical Sciences	3
PHMS3581	Pathology Lab	Medical Sciences	1

## Semester VI (19 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
PHPP3823	Pharmacy Practice-IIB (Community, Social & Administrative Pharmacy)	Pharmacy Practice	3
PHPC3363	Pharmaceutical Chemistry-IIIB (Pharmaceutical Analysis)	Pharmaceutical Chemistry	3
PHPC3361	Pharmaceutical Chemistry-IIIB (Pharmaceutical Analysis) Lab	Pharmaceutical Chemistry	1
PHMS3573	Pharmacology and Therapeutics-IIB	Medical Sciences	3
PHMS3571	Pharmacology and Therapeutics-IIB Lab	Medical Sciences	1
PHPG3743	Pharmacognosy-IIB (Advanced)	Pharmacognosy	3
PHPG3741	Pharmacognosy-IIB (Advanced) Lab	Pharmacognosy	1
PHCS3013	Pharmacy Practice-III (Computer and its Applications in Pharmacy)	Computer Science	3
PHCS3011	Pharmacy Practice-III (Computer and its Applications in Pharmacy) Lab	Computer Science	1

## Semester VII (19 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
PHPP4833	Pharmacy Practice-IVA (Hospital Pharmacy)	Pharmacy Practice	3
PHPP4853	Pharmacy Practice-VA (Clinical Pharmacy-I)	Pharmacy Practice	3
PHPP4851	Pharmacy Practice-VA (Clinical Pharmacy-I) Lab	Pharmacy Practice	1
PHPT4173	Pharmaceutics-IVA (Industrial Pharmacy)	Pharmaceutics	3
PHPT4171	Pharmaceutics-IVA (Industrial Pharmacy) Lab	Pharmaceutics	1
PHPT4213	Pharmaceutics-VA (Biopharmaceutics & Pharmacokinetics)	Pharmaceutics	3
PHPT4211	Pharmaceutics-VA (Biopharmaceutics & Pharmacokinetics) Lab	Pharmaceutics	1
PHPT4233	Pharmaceutics-VIA (Pharmaceutical Quality Management)	Pharmaceutics	3
PHPT4231	Pharmaceutics-VIA (Pharmaceutical Quality Management) Lab	Pharmaceutics	1

## Semester VIII (19 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
PHPP4843	Pharmacy Practice-IVB (Hospital Pharmacy)	Pharmacy Practice	3
PHPP4863	Pharmacy Practice-VB (Clinical Pharmacy-I)	Pharmacy Practice	3
PHPP4861	Pharmacy Practice-VB (Clinical Pharmacy-I) Lab	Pharmacy Practice	1
PHPT4183	Pharmaceutics-IVB (Industrial Pharmacy)	Pharmaceutics	3
PHPT4181	Pharmaceutics-IVB (Industrial Pharmacy) Lab	Pharmaceutics	1
PHPT4223	Pharmaceutics-VB (Biopharmaceutics & Pharmacokinetics)	Pharmaceutics	3
PHPT4221	Pharmaceutics-VB (Biopharmaceutics & Pharmacokinetics) Lab	Pharmaceutics	1
PHPT4243	Pharmaceutics-VIB (Pharmaceutical Quality Management)	Pharmaceutics	3
PHPT4241	Pharmaceutics-VIB (Pharmaceutical Quality Management) Lab	Pharmaceutics	1

## Semester IX (18 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
PHPT5253	Pharmaceutics-VIIA (Pharmaceutical Technology)	Pharmaceutics	3
PHPT5251	Pharmaceutics-VIIA (Pharmaceutical Technology) Lab	Pharmaceutics	1
PHPP5873	Pharmacy Practice-VIA (Advanced Clinical Pharmacy-II)	Pharmacy Practice	3
PHPP5871	Pharmacy Practice-VIA (Advanced Clinical Pharmacy-II) Lab	Pharmacy Practice	1
PHPP5913	Pharmacy Practice-VIIA (Forensic Pharmacy)	Pharmacy Practice	3
PHPP5933	Pharmacy Practice-VIIIA (Pharmaceutical Management & Marketing)	Pharmacy Practice	3
PHPC5373	Pharmaceutical Chemistry-IVA (Medicinal Chemistry)	Pharmaceutical Chemistry	3
PHPC5371	Pharmaceutical Chemistry-IVA (Medicinal Chemistry) Lab	Pharmaceutical Chemistry	1

## Semester X (18 Cr. Hrs.)

Course Code	Course Title	Category	Cr. Hrs.
PHPT5263	Pharmaceutics-VIIB (Pharmaceutical Technology)	Pharmaceutics	3
PHPT5261	Pharmaceutics-VIIB (Pharmaceutical Technology) Lab	Pharmaceutics	1
PHPP5883	Pharmacy Practice-VIB (Advanced Clinical Pharmacy-II)	Pharmacy Practice	3
PHPP5881	Pharmacy Practice-VIB (Advanced Clinical Pharmacy-II) Lab	Pharmacy Practice	1
PHPP5923	Pharmacy Practice-VIIB (Forensic Pharmacy)	Pharmacy Practice	3
PHPP5943	Pharmacy Practice-VIIIB (Pharmaceutical Management & Marketing)	Pharmacy Practice	3
PHPC5383	Pharmaceutical Chemistry-IVB (Medicinal Chemistry)	Pharmaceutical Chemistry	3
PHPC5381	Pharmaceutical Chemistry-IVB (Medicinal Chemistry) Lab	Pharmaceutical Chemistry	1

## Admission Requirements

- (i) 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.
- (ii) UCP Admission / HEC Approved Test.

## Degree Requirements

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

- (i) 24 Cr. Hrs. course work with 6 Cr. Hrs. Thesis
- (ii) Course work only (10 Courses)

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

Area	Cr. Hrs.
a) Core Courses	06
b) Specialization Courses	18

## a) Core Courses

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

## b) Specialization Courses

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

### Program Duration

This is nominally a 2-year degree program comprising of 04 semesters. There is a Fall and a Spring semester in each year. The maximum duration to complete the program is 4-years.

