



DEPARTMENT OF **PHARMACY**

MISSION STATEMENT

To provide its students with pharmacy education of the highest quality, promoting the academic and career growth of the students to prepare them for leadership roles in the pharmaceutical care system.



PROGRAMS OFFERED

- Doctor of Pharmacy (Pharm-D)
- MS Pharmacy (Pharmaceutics, Pharmacology, Pharmacy Practice)
- Ph.D Pharmacy (Pharmaceutics, Pharmacology)



HOD'S MESSAGE

The Department of Pharmacy at CECOS University offers a comprehensive Doctor of Pharmacy (Pharm-D) program designed to prepare students for impactful careers in the fast-growing pharmaceutical sector. Our experienced faculty is devoted to academic excellence and holistic student development. With modern facilities and a nurturing learning environment, we focus on building professional competence, ethical values, and personal growth. Join us and take the first step toward becoming a future leader in pharmacy.

Prof. Dr. Fazal Subhan

Ph.D Pharmacy (Pharmacology) Cardiff University of Wales, UK



FACULTY OF PHARMACY

Dr. Fazal Subhan

Professor (Dean FLS & HoD Pharmacy)
Ph.D Pharmacology, Cardiff University of
Wales, UK

Dr. Zia Ullah Shah

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Ph.D Microbiology, Quaid-e-Azam University,
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Ph.D Pharmacy, University of Peshawar,
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Associate Professor (HoD Biotechnology)
Ph.D Pharmacy, University of Peshawar,
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Associate Professor
Ph.D Pharmaceutical Chemistry, COMSATS
University Islamabad, Abbottabad Campus.

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Ph.D Basic Medical Sciences, Sungkyunkwan
University, South Korea

Dr. Sami Ullah Khan

Associate Professor
Ph.D in Pharmaceutics, The Islamia University
of Bahawalpur Pakistan

Dr. Saad Salman

Associate Professor
Ph.D Pharmaceutics, Government College
University Faisalabad

Dr. Asif Shehzad

Associate Professor
Ph.D Pharmaceutical Chemistry, Gomal
University, D.I.Khan

Dr. Jehan Zeb Khan

Associate Professor
Ph.D Clinical Pharmacy, University of Peshawar.

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Ph.D Pharmacognosy, COMSATS University
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Mr. Bakht Karam

Senior Lecturer
BSc, LLB, B.Pharm, MPH, MBA

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M. Phil (Pharmaceutics), Abasyn University
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M.Phil Pharmaceutics, Ripah International
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University Islamabad

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M. phil in Pharmacy Practice, University of
Peshawar

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Lecturer
M.Phil (Pharmacy) Kohat University Of
Science and Technology

Mr. Imran Jan

Lecturer
M.Phil (Pharmacy) Kohat University Of
Science and Technology

Ms. Marukh Murad

Lecturer
M.Phil in Pharmacology/ Khyber Medical
University



LABORATORIES

- Basic Medical Science Lab
- Pharmaceutical Chemistry Lab
- Pharmaceutics Lab
- Pharmacognosy Lab
- Industrial Lab
- Quality Control Lab



Curriculum of Doctor of Pharmacy

Semester-I

Course Code	Course Title	Credit Hours
PHM-111	Physical Pharmacy-I	3+1
PHM-121	Organic Chemistry-I	3+1
PHM-123	Biochemistry-I	2+1
PHM-141	Physiology-I	3+1
ENG-101	Functional English	3
Total Credit Hours		18

Semester-V

Course Code	Course Title	Credit Hours
PHM-333	Pharmacognosy (Applied)	3+1
PHM-325	Pharmaceutical Analysis-I	3+1
PHM-346	Pharmacology and Therapeutics-III	3+1
PHM-356	Hospital and Community Pharmacy	2
MATH-110	Quantitative Reasoning – I *	3
SS-203	Ideology & Constitution of Pakistan *	2
SS-114	Fehm-e-Quran II*	1
Total Credit Hours		20

Semester-IX

Course Code	Course Title	Credit Hours
PHM-511	Pharmaceutical Technology - I	3+1
PHM-553	Pharmaceutical Regulatory Science-I	3
PHM-527	Medicinal Chemistry-I	3+1
PHM-551	Advanced Clinical Pharmacy-I	3+1
PHM-548	Clinical Pharmacology	2+1
Total Credit Hours		18

Semester-II

Course Code	Course Title	Credit Hours
PHM-112	Physical Pharmacy - II	3+1
PHM-122	Organic Chemistry - II	3+1
PHM-124	Biochemistry - II	2+1
PHM-143	Anatomy & Histology	2+1
PHM-142	Physiology-II	3+1
SS-101	Islamic Studies*	2
Total Credit Hours		20

Semester-VI

Course Code	Course Title	Credit Hours
PHM-334	Pharmacognosy (Advanced)	3+1
PHM-354	Dispensing, Social & Administrative Pharmacy	2
PHM-326	Pharmaceutical Analysis-II	3+1
PHM-347	Pharmacology & Therapeutics-IV	3+1
PHM-355	Applications of ICT (Especially focus on Pharmacy)*	2+1
MATH-111	Quantitative Reasoning-II*	3
Total Credit Hours		20

Semester-X

Course Code	Course Title	Credit Hours
PHM-512	Pharmaceutical Technology - II	3+1
PHM-554	Pharmaceutical Regulatory Science II	3
PHM-528	Medicinal Chemistry-II	3+1
PHM-552	Advanced Clinical Pharmacy-II	3+1
-	Bioethics (Arts & Humanities Category) **	2
-	Capstone Project ***	3
Total Credit Hours		20

Semester-III

Course Code	Course Title	Credit Hours
PHM-213	Drug Delivery Systems & Formulation Science - I	3+1
PHM-244	Pharmacology and Therapeutics-I	3+1
PHM-231	Pharmacognosy - (Basic I)	3+1
PHM-248	Pathology	2+1
PHM-215	Basic Pharmaceutical Microbiology**	2+1
Total Credit Hours		18

Semester-VII

Course Code	Course Title	Credit Hours
PHM-411	Industrial Pharmacy - I	3+1
PHM-413	Biopharmaceutics and Pharmacokinetics - I	3+1
PHM-458	Clinical Pharmacy-I	3+1
PHM-415	Pharmaceutical Quality Management System	3
ENG-102	Expository Writing *	3
MGT-431	Entrepreneurship *	2
Total Credit Hours		20

Semester-IV

Course Code	Course Title	Credit Hours
PHM-214	Drug Delivery Systems & Formulation Science - II	3+1
PHM-216	Applied Pharmaceutical Microbiology & Immunology	3+1
PHM-245	Artificial Intelligence in Pharmacology & Therapeutics (Pharmacology & Therapeutics-II)	3+1
PHM-232	Pharmacognosy (Basic - II)	3+1
SS-102	Pakistan Studies *	2
SS-113	Fehm-e-Quran I*	1
Total Credit Hours		19

Semester-VIII

Course Code	Course Title	Credit Hours
PHM-412	Industrial Pharmacy - II	3+1
PHM-414	Biopharmaceutics and Pharmacokinetics - II	3+1
PHM-459	Clinical Pharmacy-II	3+1
PHM-354	Civics & Community Engagement* (Fulfillment requirement of Pharmacy Practice-III)	1+1
PHM-416	Pharmaceutical Quality Control	2+1
PHM-455	Pharmaceutical Management & Marketing**	2
Total Credit Hours		19

Total Credit Hours = 195 & 210

Fact File

Duration: Five Years

Eligibility: Minimum 60% marks in F.Sc Pre-Medical or Equivalent
Passing aptitude test of CECOS.

Master & PhD in Pharmacy

Plan-A MS & PhD by Research Work

1st SEMESTER		2nd SEMESTER	
Category	Credit Hours	Category	Credit Hours
Course I	3-0	Course IV	3-0
Course II	3-0	Course V	3-0
Course III	3-0	Course VI	3-0
Understanding of Holy Quran-I	1	Understanding of Holy Quran-II	1
3rd SEMESTER		4th SEMESTER	
Category	Credit Hours	Category	Credit Hours
Course VII	3-0	Thesis and Research	6
Course VIII	3-0		
Thesis and Research	Non credit		

PLAN B: MS by Course Work

1st SEMESTER		2nd SEMESTER	
Category	Credit Hours	Category	Credit Hours
Course I	3-0	Course IV	3-0
Course II	3-0	Course V	3-0
Course III	3-0	Course VI	3-0
Understanding of Holy Quran-I	1	Understanding of Holy Quran-II	1
3rd SEMESTER		4th SEMESTER	
Category	Credit Hours	Category	Credit Hours
Course VII	3-0	Course-X	3-0
Course VIII	3-0	Project	0
Thesis and Research	Non credit		
Project	Non credit		

MS & PhD Pharmaceutics

SCHEME OF STUDIES

Courses of MS Pharmaceutics

Course Code	Subject	Credit Hours
PHARM-610	Radiopharmaceuticals	3
PHARM-611	Pharmaceutical Pre-formulation	3
PHARM-612	Sterile Formulations	3
PHARM-613	Stability Testing of Pharmaceuticals	3
PHARM-614	New Drug Delivery Systems	3

Combined Courses of MS & PhD Pharmaceutics

Course Code	Subject	Credit Hours
PHARM-710	Pharmaceutical Formulation and Manufacturing	3
PHARM-711	Advanced Pharmaceutical Biotechnology	3
PHARM-712	Formulation of Poorly Soluble Drugs	3
PHARM-713	Advanced Pharmaceutical Microbiology	3
PHARM-714	Polymeric Drug Delivery	3
PHARM-715	Molecular Biopharmaceutics	3

Courses of PhD Pharmaceutics

Course Code	Subject	Credit Hours
PHARM-810	Advanced Physical Pharmacy	3
PHARM-811	Nanotechnology and Nano-medicine	3
PHARM-812	Advanced Drug Delivery	3
PHARM-813	Microbial Control in Pharmaceuticals	3
PHARM-814	Modified Release Delivery System	3
PHARM-815	Advanced Pharmaceutical Technology	3
PHARM-816	Advanced Neuropharmaceutics	3

MS & PhD Pharmacology

SCHEME OF STUDIES

Courses of MS Pharmacology

Course Code	Subject	Credit Hours
PHARM-640	Special Topics in Experimental Pharmacology	3 + 1
PHARM-641	System Pharmacology-I (Gastrointestinal Pharmacology)	3
PHARM-642	System Pharmacology-I (Neuropharmacology)	3
PHARM-643	Molecular Pharmacology	3
PHARM-644	Drug Discovery and Evaluation	3
PHARM-645	Biochemical Toxicology	3

Combined Courses of MS & PhD Pharmacology

Course Code	Subject	Credit Hours
PHARM-741	Pain Management	3
PHARM-742	Autacoids Pharmacology	3
PHARM-743	Chemotherapy of Infectious Diseases	3
PHARM-744	Receptor Signaling Mechanisms	3
PHARM-745	Hematological Pharmacology	3
PHARM-746	Pharmacological Assays	3

Courses of PhD Pharmacology

Course Code	Subject	Credit Hours
PHARM-800	System Pharmacology-II (Cardiovascular)	3
PHARM-801	System Pharmacology-II (Renal)	3
PHARM-802	System Pharmacology-II (Endocrine Pharmacology)	3
PHARM-803	Pharmacogenomics	3
PHARM-804	Oncopharmacology	3
PHARM-805	Advanced Neuropharmacology	3
PHARM-806	Substance Abuse And Addiction	3

MS & PhD Pharmacy Practice

SCHEME OF STUDIES

Courses of MS Pharmacy Practice

Course Code	Subject	Credit Hours
PHARM-620	Advance Clinical Pharmacy	3
PHARM-621	Pharmacoeconomics	3
PHARM-622	Pharmacoepidemiology	3
PHARM-623	Pharmacovigilance	3
PHARM-624	Rational Drug Use	3
PHARM-625	Design of Clinical Trials	3
PHARM-626	Personalized Medication	3

Combined Courses of MS & PhD Pharmacy Practice

Course Code	Subject	Credit Hours
PHARM-720	Critical Care Pharmacy	3
PHARM-721	Pharmacotherapy	3
PHARM-722	Drug Literature Review	3
PHARM-723	Public Health Pharmacy	3
PHARM-724	Clinical Pharmacy Skills	3
PHARM-725	Advances in Pharmaceutical Care	3
PHARM-726	Role of Clinical Pharmacist in Measuring and Regulating Medicines Use	3
PHARM-727	Telepharmacy and digital health services	3

MS ELIGIBILITY

- Doctor of Pharmacy (5 years' program) with minimum 2.0 CGPA or 60% marks from University recognized by HEC.
- Qualifying GAT-General Test of CECOS University or any other approved testing body (NTS/ETEA)

PhD ELIGIBILITY

- Minimum 18-year Master Degree (Research Based) in relevant field with minimum 3 CGPA from HEC recognized University.

OR

- Those who have Completed Master degree by course work will be required to publish one research paper in HEC recognized Journal prior to admissions.