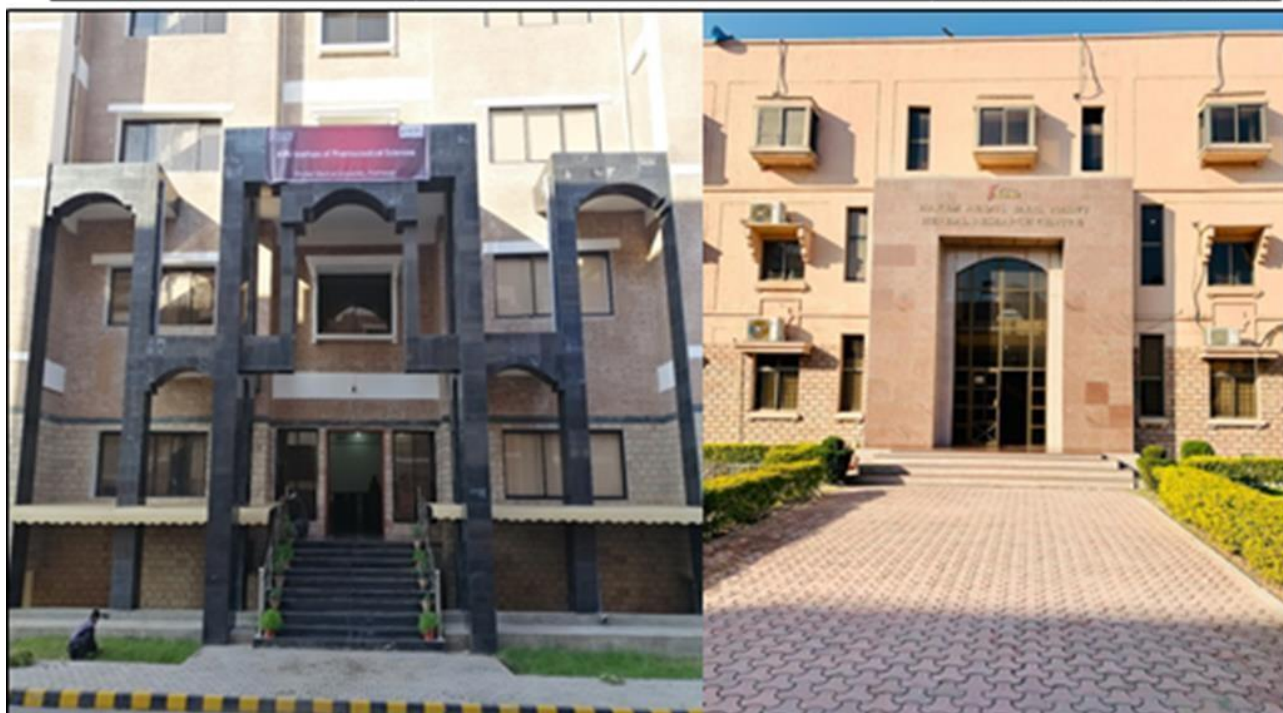


KHYBER MEDICAL UNIVERSITY
INSTITUTE OF PHARMACEUTICAL SCIENCES
Prospectus 2026-27



IPS Block

Phase-V, Hayatabad Peshawar, Khyber Pakhtunkhwa, Pakistan Contact: 091-9217838

MESSAGE OF THE DIRECTOR

It gives me immense pleasure to welcome you to the Institute of Pharmaceutical Sciences (IPS), Khyber Medical University. Since its inception, IPS has been committed to excellence in pharmacy education, research, and professional practice. Our mission is to prepare competent pharmacists, researchers, and academicians who can contribute meaningfully to the healthcare system and pharmaceutical industry, both nationally and globally.

The institute offers a comprehensive academic pathway, beginning with the Doctor of Pharmacy (Pharm-D) program and extending to advanced postgraduate studies including MS and PhD in Pharmaceutics and Pharmacology. These programs are designed to foster innovation, critical thinking, and leadership, equipping our graduates with the skills required to address the dynamic challenges of modern healthcare and drug development.



Our mission at IPS is to expand high-quality research activities, enhance diagnostic and laboratory services, and strengthen the vital link between basic science and clinical practice. We are dedicated to addressing local and regional health challenges through innovative, evidence-based research, while ensuring that our academic programs remain aligned with international standards.

At IPS, students benefit from highly qualified faculty, state-of-the-art laboratories, and a research-driven environment that nurtures scientific inquiry and professional growth. We emphasize not only academic excellence but also ethical practice, community service, and lifelong learning.

I invite you to explore the opportunities IPS offers and to join us in our mission of advancing pharmaceutical sciences for the betterment of society. Together, we can shape a healthier future through knowledge, innovation, and dedication.

Prof. Dr. Sami Siraj

Director Institute of Pharmaceutical Sciences

1. Introduction

The Institute of Pharmaceutical Sciences (IPS), Khyber Medical University, stands as a premier center of excellence dedicated to advancing education, research, and innovation in the field of pharmacy. With a vision to produce highly skilled professionals who contribute to the health and well-being of society, IPS offers comprehensive academic programs including the Doctor of Pharmacy (Pharm-D), Master of Science (MS), and Doctor of Philosophy (PhD) in Pharmaceutics and Pharmacology.

Our programs are designed to cultivate critical thinking, scientific inquiry, and professional competence, equipping graduates to meet the evolving challenges of healthcare and pharmaceutical

industries. Through a blend of rigorous coursework, hands-on training, and cutting-edge research opportunities, IPS fosters an environment where students can thrive as clinicians, researchers, and innovators.

At IPS, we are committed to nurturing future leaders in pharmacy who uphold the highest standards of ethics, knowledge, and service. By integrating modern scientific advancements with community-focused healthcare, the institute continues to play a pivotal role in strengthening Pakistan's pharmaceutical sector and contributing to global health solutions.

2. Vision

To be a global leader in pharmacy and pharmacology education, research, and practice, advancing patient-centered care and transformative healthcare innovation.

3. Mission

To educate and empower future pharmacists with clinical excellence, ethical practice, and innovation, equipping them to advance healthcare through evidence-based practice, research, and community engagement.

4. Program Objectives

1. To keep pace with the advancements in the modern sciences.
2. To prepare the students to fulfill the industrial needs and be well versed with the basic medical and pharmaceutical sciences in order to prepare a dosage regimen for an individual patient.
3. To make our graduates more skillful, competitive and knowledgeable both practically and theoretically.
4. To cater the local and international pharmacy needs.
5. To make a health care practitioner who is expert in the use of medicine in all practical fields and are capable of disease state management specially to improve public health at large.
6. To prepare pharmacy graduates for better pharmacy practice in the areas including clinical pharmacy, community pharmacy, hospital pharmacy and industrial pharmacy.

5. Core values

- Perform integrated interdisciplinary teaching and research with the highest level of ethics and professionalism, to meet the needs of stakeholders; and be responsive to changing global trends.
- Promote and defend the freedom of thought, academic inquiry, expression and association.
- Demonstrate sensitivity to student welfare and staff needs, and to practice environmental stewardship to the highest standards.

6. Faculty

FACULTY OF IPS-KMU		
		
Dr. Sami Siraj Professor/Director IPS B. Pharmacy, PhD, Post Doc	Dr. Niaz Ali Professor B. Pharmacy, PhD, CHPE, MHPE, Post Doc	Dr. Haji Bahadur Associate Professor Pharm-D, PhD
		
Dr. Shakir Ullah Associate Professor Pharm-D, M. Phil, PhD, Post Doc	Dr. Muhammad Nabi Associate Professor Pharm-D, M-Phil, PhD, CHR	Dr. Muhammad Ikram Assistant Professor Pharm-D, PhD, Post Doc



Dr. Muhammad Samie
Assistant Professor
Pharm-D, PhD



Dr. Muhammad Waseem Khan
Assistant Professor
Pharm-D, PhD



Dr. Shehla Akbar
Assistant Professor
Pharm-D, PhD



Dr. Nasir Ahmad
Assistant Professor
Pharm-D, PhD



Dr. Kashif Khan
Assistant Professor
Pharm-D, PhD, Post Doc



Dr. Mehreen Rahman
Lecturer
Pharm-D, PhD



Dr. Rabeea Sharif
Lecturer
Pharm-D, PhD



Dr. Zikria
Lecturer
Pharm-D, PhD



Dr. Abdul Razzaq
Lecturer
Pharm-D, PhD

 Dr. Waheed Iqbal Lecturer Pharm-D, M-Phil, PhD	 Ms. Kiran Ijaz Lecturer Pharm-D, M-Phil	 Mr. Fawad Khalil Lecturer/Clinical Pharmacist Pharm-D, M-Phil
 Ms. Irum Rasool Lecturer/Clinical Pharmacist Pharm-D, M-Phil	 Ms. Faryal Shams Lecturer/Clinical Pharmacist Pharm-D, M-Phil	 Ms. Aiman Sohaib Teaching Assistant Pharm-D, M-Phil
 Ms. Hira Siyar Teaching Assistant Pharm-D, M-Phil	 Ms. Haseena Teaching Assistant Pharm-D, M-Phil	 Ms. Rubina Begum Teaching Assistant Pharm-D, M-Phil



Mr. Ihtesham

Teaching Assistant/Clinical Pharmacist
Pharm-D



Mr. Furqan

Teaching Assistant/Clinical Pharmacist
Pharm-D

7. Facilities

IPS is providing excellent educational resources, services and facilities to fulfill the teaching, learning and research needs of its faculty members, students and staff. The institute is run by well trained, internationally qualified, professional PhD faculty members.

8. Infrastructure

Purpose built and renovated IPS block in main campus of the university with well-furnished departments, spacious, air-conditioned class rooms, demonstration rooms and laboratories equipped with multimedia projectors and audio-video equipment. The university has a well-equipped and furnished multipurpose hall with multi demonstration rooms, where all the national and international conferences, seminars and workshops take place. Administration, faculty, students and guests have separate cars parking with shades which are vigilantly watched by the veteran security personnel.

9. Accommodation

A new hostel is being built which is almost complete and will be functional soon on campus. Resident students will be provided with furnished accommodation comprising cubicles and dorms. The hostel will be provided with Wi-Fi, mess and common room.

10. Wi-Fi and IT support

Wi-Fi support through HEC smart university to the university has 80MPS broadband connection to all areas of the campus. KMU offers both faculty and students official email addresses, so as to make it easy to communicate with colleagues nationally and internationally with increased authenticity. In the IT lab students can work on their research and there is also a Prime Minister Laptop scheme for students to keep abreast of the digital age.

11. Library

IPS comprises a well maintained and spacious library equipped with comfortable chairs and environment. Latest edition books in pharmaceutical sciences both local and international, to facilitate both students and faculty in their course works are available. Local and international

journals are made available in the library. The library has a computer lab, with access to university broadband which instantly helps the students browse for contents online.

The university has provided free access to the **Medline database** to facilitate scholars in research. Medline contains journal citations, full text and abstracts for biomedical literature from around the world.



12.Sports Facilities

Besides academics, sports are one of the most important co-curricular activities. Sports attribute to the academic performance and character building of the students. It is said, “A healthy body is a promise of a healthy mind”, and combination of both can do wonders for students. Thus the institute has provided sports facilities to the indoor as well as outdoor games. Annual Sports Gala is also arranged annually by the Directorate of Sports for active participation of students from all the affiliated institutes.



13.Laboratories

IPS has a well-equipped laboratory with cutting edge instruments. Students with the help of capable technicians and faculty members perform all their research work in these laboratories.

Pharmaceutical Chemistry Lab

IPS has established a pharmaceutical chemistry lab for the conduction of the practical labs of organic chemistry, biochemistry, and medicinal chemistry. The lab is equipped with specialized equipment such as fume hood, polari meter, UV spectroscope, digital weighing balance, water bath, etc.



Basic Medical Sciences Lab

The Basic Medical Sciences lab is one of the well-equipped labs at IPS. It contains the latest instruments that have made the job of students easy. ECG Machine, ESR Fast detector, hemometer, kymograph, centrifuge, and Neubauer chamber are common processes involved during students' practical.



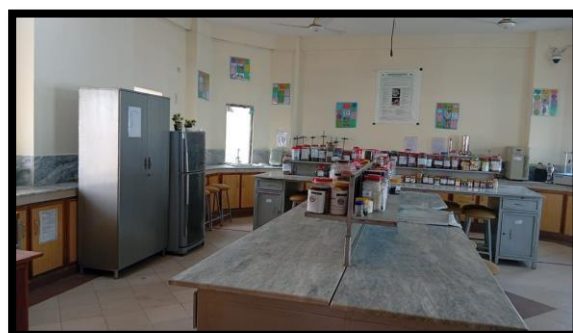
Pharmaceutics Lab

The pharmaceutics lab is established at IPS for the conduction of Pharm-D practical. The lab is well-equipped consisting of latest instruments like friability tester, disintegration apparatus, and cool incubator that have made the job of students easy.



Pharmacognosy Lab

The pharmacognosy lab established at IPS is well equipped for the extraction of crude drugs from different plants. The lab is equipped with latest instruments like microtome, microscope, and rotary evaporator which are helpful in the conduction of Pharm-D experiments.



Industrial Lab

The industrial lab has been recently established at IPS comprising of latest equipment for the dosage form formulation such as industry-grade Double Cone Mixer, Ball Mill, Bottle Screw Cooling Machine, Colloidal Mill Small Scale, Fluidized Bed Dryer, Horizontal/Z Mixer, Liquid Mixing Machine, Muffle Furnace, etc.



Analytical Chemistry Lab

The analytical chemistry laboratory established at IPS provides the services for the quality control of the pharmaceutical dosage forms. The lab is well equipped with latest instruments like Digital Dissolution Apparatus, Disintegration Tester, Flame Photometer, and UV Spectrophotometer Double Beam.



Microbiology Lab

The Microbiology Laboratory is actively developing and is equipped to support advanced teaching and research activities. The laboratory houses laminar flow hood, autoclave, microscopes, shaking incubator, and hot air oven.



Animal House

IPS also has a centralized animal house with air-conditioned facility which is located in a separate building with separate rooms for keeping the animals and for performing experiments. The facility houses a number of different strains of mice and rats as well as rabbits as per student research projects. Students can access this facility for testing and running animal trials and for carrying out metabolic studies for their research projects. We have now added a surgical room with live animal experiment equipment like anesthesia machine.



14. Eligibility and Admission Criteria

Candidates seeking admission must fulfill the following requirements:

- a. Higher Secondary School Certificate (involving 12 years of schooling) or an IBCC equivalent qualification in Pre-Medical Group with at least 60% cumulative score is the basic eligibility requirement for admission in the Doctor of Pharmacy (Pharm. D) program.
- b. Minimum 60% marks in the qualifying examination.
- c. Passing KMU admission test (if applicable). The following % weightage will be given to marks for display of merit list:
 - i. SSC: 10%
 - ii. FSC: 40%
 - iii. KMU-CAT: 50%
- d. Fulfillment of admission policies of Khyber Medical University. Admission shall be based on merit determined by KMU admission policy.
- e. Reserved seats may be allocated according to government and KMU policies.

15. Seat Distribution for Pharm-D program

Category	Number of Seats
Total	100
Open Merit	71
General seats	10
Disabled candidates	02
AJK, Punjab, Gilgit-Baltistan, Sindh, and Baluchistan domicile holder	01 seat each
Children of pharmacists registered by PCP in Category "A" under section 24 of pharmacy act 1967.	02
Nominee of the proprietors, partners and directors of pharmaceutical industry (Pharmacy council regulations 2005).	02
FATA/NMD's	02
Minorities	02

KMU employees with 50% fee concession as per Khyber Medical University Policy.

04

16.Fee Structure for Pharm-D 5 Years Program

Fee Structure		1 st Semester	2 nd Semester	3 rd Semester	4 th Semester	5 th Semester	6 th Semester	7 th Semester	8 th Semester	9 th Semester	10 th Semester
Tuition Fee*	Open Merit	70000	70000	70000	70000	70000	70000	70000	70000	70000	70000
	General Seats	140000	140000	140000	140000	140000	140000	140000	140000	140000	140000
KMU Registration Fee		3080	-	-	-	-	-	-	-	-	-
PCP Fee		2000	-	-	-	-	-	-	-	-	-
Examination fee		As per examination rules									

*10 % increment each year as per KMU policy.

17.Degree Award Requirements

The following minimum requirements are prescribed for the award of Doctor of Pharmacy:

- All courses in the General Education category as prescribed in HEC Undergraduate Education Policy V 1.1. Including the courses of “Pakistan Studies and Fehm-e-Quran” must be completed.
- Minimum of 195 credit hours are required for the award of Pharm-D degree, in case no specializations is opted by student.
- Minimum of 210 credit hours are required for the award of Pharm-D degree with specialization in particular domain.
- Capstone / research project of three (03) credit hours must be completed.

- e. Internship/Field experience of three (03) credit hours must be completed. This requirement cannot be substituted with additional coursework, capstone, research or project work.
- f. CGPA must not be below 2.00/4.00 at the time of completion of the degree program.
- g. A student who is declared fail in practical shall have to re-appear in practical only, while a student who is declared fail in theory shall have to re-appear in theory only.

18. Conduct of Semesters

There shall be two regular semesters in an academic year. Each semester will be spread over 18 weeks including examinations i.e.

- i. Fall Semester: September-January
- ii. Spring Semester: February- June

19. Program Overview

Total Number of Credit Hours	195-210
Semester Duration	16-18 weeks for regular semesters (1-2 weeks for examination) and 8-9 weeks for summer semesters (1 week for examination)
Program Duration	Minimum 5 years (Maximum 7 years)
Number of Regular Semesters	10 semesters
Number of Summer Semesters	One
Course Load per Semester	15-21 credit hours for regular semesters. Up-to 8 credit hours for summer semesters (for remedial/deficiency/failure/repetition courses only)

20.Course Outline

The Doctor of Pharmacy program comprises of minimum 195 credit hours spread over ten (10) regular semesters. The scheme of studies is given below:

Year 1 (Semester-I)			Year 1 (Semester-II)		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
PHARM-611	Physical Pharmacy-I	3+1	PHARM-615	Physical Pharmacy-II	3+1
PHARM-612	Organic Chemistry-I	3+1	PHARM-616	Organic Chemistry-II	3+1
PHARM-613	Biochemistry-I	2+1	PHARM-617	Biochemistry-II	2+1
PHARM-614	Physiology-I	3+1	PHARM-618	Anatomy & Histology	2+1
GEN-601	Functional English	3+1	PHARM-619	Physiology-II	3+1
Total		18	Total		20
Year 2 (Semester-III)			Year 2 (Semester-IV)		
GEN-602	Islamic Studies	2	PHARM-626	Drug Delivery Systems & Formulation-II	3+1
PHARM-621	Drug Delivery Systems & Formulation-I	3+1	PHARM-627	Applied Microbiology & Immunology	3+1
PHARM-622	Pharmacology & Therapeutics-I	3+1	PHARM-628	Pharmacology & Therapeutics-II	3+1
PHARM-623	Pharmacognosy-I	3+1	PHARM-629	Pharmacognosy-II	3+1
PHARM-624	Pathology	2+1	GEN-603	Pakistan Studies	2+0
PHARM-625	Pharmaceutical Microbiology	2+1	GEN-604	Fehm-e-Quran-I	1+0
Total		18	Total		19
Year 3 (Semester-V)			Year 3 (Semester-VI)		
PHARM-631	Pharmacognosy (Applied)	3+1	PHARM-635	Pharmacognosy (Advanced)	3+1
PHARM-632	Pharmaceutical Analysis-I	3+1	PHARM-636	Dispensing Pharmacy	2+0
PHARM-633	Pharmacology & Therapeutics-III	3+1	PHARM-637	Pharmaceutical Analysis-II	3+1
PHARM-634	Hospital & Community Pharmacy	2+0	PHARM-638	Pharmacology & Therapeutics-IV	3+1
GEN-605	Quantitative Reasoning-I	3+0	GEN-608	ICT in Pharmacy	2+1
GEN-606	Ideology & Constitution of Pakistan	2+0	GEN-609	Biostatistics	3
GEN-607	Fehm-e-Quran-II	2+0			
Total		20	Total		20

Year 4 (Semester-VII)			Year 4 (Semester-VIII)		
PHARM-641	Industrial Pharmacy-I	3+1	PHARM-645	Industrial Pharmacy-II	3+1
PHARM-642	Biopharmaceutics & Pharmacokinetics-I	3+1	PHARM-646	Biopharmaceutics & Pharmacokinetics-II	3+1
PHARM-643	Clinical Pharmacy-I	3+1	PHARM-647	Clinical Pharmacy-II	3+1
PHARM-644	Pharmaceutical Quality Management	3+0	GEN-612	Civics & Community Engagement	1+1
GEN-610	Expository Writing	3+0	PHARM-648	Pharmaceutical Quality Control	2+1
GEN-611	Entrepreneurship	2+0	GEN-613	Pharmaceutical Marketing	2+0
Total		20	Total		19
Year 5 (Semester-IX)			Year 5 (Semester-X)		
PHARM-651	Pharmaceutical Technology-I	3+1	PHARM-656	Pharmaceutical Technology-II	3+1
PHARM-652	Regulatory Science-I	3+1	PHARM-657	Regulatory Science-II	3+0
PHARM-653	Medicinal Chemistry-I	3+1	PHARM-658	Medicinal Chemistry-II	3+1
PHARM-654	Advanced Clinical Pharmacy-I	3+1	PHARM-659	Advanced Clinical Pharmacy-II	3+1
PHARM-655	Clinical Pharmacology	2+1	GEN-614	Bioethics	2+0
			PHARM-650	Capstone Project	0+3
Total		18	Total		20

21. Internship/ Clinical Training

Internship is a mandatory degree award requirement comprising of three (03) credit hours for the Pharm-D Program. This internship is carried out during the 7th and 8th semesters. Pharm. D students are also required to complete three international certifications (non-credited, equivalent to 3 credit hours in total) over the period of five-year program as a mandatory condition for degree completion. Each certification will be considered equivalent to 1 credit hour if it comprises at least 16 hours. A Capstone project is a mandatory degree award requirement of three (03) credit hours for the Pharm. D Program. A capstone project is a multifaceted body of work that serves as culminating academic and intellectual experience for students. Students must complete hospital and industrial training in recognized institutions. The training areas include:

- Hospital pharmacy
- Community pharmacy
- Pharmaceutical manufacturing
- Quality control and quality assurance

Moreover, clinical training in hospitals is an integral part of the curriculum. Currently the Faculty of Pharmacy has undergone MOUs with the following hospitals for the conduction of the training:

- Lady Reading Hospital Peshawar.
- Khyber Teaching Hospital, Peshawar
- Hayatabad Medical Complex, Peshawar
- Rahman Medical Complex, Peshawar
- North West General Hospital and Research Centre, Peshawar

22.Evaluation and Assessment

- Student performance shall be evaluated through continuous assessment including assignments/quizzes/presentations/mid-term and final-term examination.
- External evaluation will be mandatory for all practical courses of every exam. The teacher concerned shall be an internal evaluator/examiner.
- In each semester, students may be required to appear in quizzes, tests, midterms, final examinations, presentations (individual/group), group discussion, and submit projects/assignments/lab reports etc. These assessment marks (to be determined by the teacher concerned) will have different weightage contributing towards the overall assessment in percent marks. This weightage may be determined on the basis of following guidelines:

Course (Theory)		Course (Practical)	
Nature of Examination	Weightage	Nature of Examination	Weightage
Quizzes/Assignments/Presentations	10 %	External Viva Voce	50 %
Mid-Term Exam	20 %	Lab Exam (Written)	30 %
Final-Term Exam	70 %	Journal + Table viva (OSPE)	20 %
Total Marks	100		100

- Distribution of Sessional Marks (Quizzes / Assignments / Presentations /Mid Semester exam) for the courses is under:
 - ✓ Minimum 2 Assignments per subject 10 marks
 - ✓ Minimum 2 Quizzes per subject 10 marks
 - ✓ One Presentation per subject 05 marks
 - ✓ Mid-term exam 30 marks
 - ✓ Final-term exam 100 marks
- Practical and clinical courses may be evaluated using: Objective Structured Practical Examination (OSPE) and Objective Structured Clinical Examination (OSCE).

23.Grading Policy

Grade Point Average (GPA) system will be adopted for the evaluation of students in all subjects based on the absolute grading system. A student securing less than 50% aggregate marks in a subject will be awarded grade "F". The following grades will be applicable for Pharm-D program:

Grade	Grade Point	Percentage Obtained in Semester System
A	3.67 - 4.00	85 and Above

A-	3.34 – 3.66	80-84
B+	3.01- 3.33	75-79
B	2.67- 3.00	71-74
B-	2.34-2.66	68-70
C+	2.01-2.33	64-67
C	1.67-2.00	61-63
C-	1.31-1.66	58-60
D+	1.01-1.30	54-57
D	0.10-1.10	50-53
F	0.10-1.10	Below 50

24.CGPA Required for the Completion of Degree

For completion of the degree, the minimum qualifying CGPA will be 2.00. In case a student secures less than 2.00 CGPA (minimum qualifying CGPA) at the end of final Semester, s/he may be allowed to get readmission in one or more courses, in which his/her Grade is below C, along with the forthcoming semester, provided that s/he is not debarred under the CGPA Improvement Regulation and time duration specified for the program.

25.Probation/Relegation

Probation is a status granted to the student whose academic performance falls below the following minimum standard:

- ☐ Student acquiring less than 2.00/4.00 GPA in a semester
- ☐ Student having 5 F grades in a semester

Students placed on probation in two consecutive semesters even after attending the summer for one academic year will be considered as relegated. S/he will be considered as external student till s/he improves his/her GPA and comes out of two consecutive probations. After improving the GPA and becoming eligible for next semester, s/he will be allowed re-admission as a regular student.

26.Repetition of Courses/Improvement of CGPA

If a student gets 'F' grade, s/he will be required to repeat the course. Students may be allowed to repeat a course in which s/he has obtained grade below "C".

27.Academic Misconduct and Unfair Means

Academic misconduct includes:

- Copying during examinations
- Possession of unauthorized material
- Use of electronic devices
- Impersonation
- Plagiarism

Penalties shall be imposed as KMU examination regulations and all such cases shall be handled according to disciplinary policies of Khyber Medical University.

28.Study Tour

According PCP curriculum one medicinal plant collection and one industrial tour will be arranged during 3rd and 4th prof of Pharm-D Program. The bus and fuel cost will be paid by the Khyber Medical University.

29.Dress Code

In order to maintain academic dignity and sanctity of the institute to promote proper academic environment, students are required to be properly dressed.

- For male students: Blue qameez shalwar or blue dress pant and shirt with white overall are mandatory.
- For female students: White overall, white trouser with blue shirt is compulsory and in winter season blue Coat and Sweater.
- Every student will carry their own University/ Institute Identity Card duly displayed on his/her uniform.



THE END