

IX. FACULTY OF PHARMACEUTICAL SCIENCES

UNIVERSITY INSTITUTE OF PHARMACEUTICAL SCIENCES

ABOUT THE INSTITUTE

The University Institute of Pharmaceutical Sciences (UIPS) was established almost 80 years ago in Lahore in 1944 and got re-located on the campus of Panjab University, Chandigarh in 1959. The Institute is one of the most prestigious academic organizations committed and catering to excellence in all the domains of pharmaceutical sciences. More than 4300 research papers, 297 Ph.Ds, 82 books, 76 patents granted, 50 published & filed, numerous national and international awards, and meritorious recognitions to the faculty are some of the notable accomplishments of the Institute. Remarkable discoveries of new drugs, molecules & patented products have seen the reality of industrial commercialization after their successful technology transfers. UIPS has successfully transferred various technologies and pharmaceutical products to various pharmaceutical industries. Three of the faculty members have been elected as National Presidents of the prestigious Indian Pharmaceutical Congress too. Three faculty members have received award from president of India for their outstanding contribution to science and technology. The alumni occupy the highest echelons in industry, research organizations and academia in India and abroad. Alumni's significant donations helped the institute to create several annual scholarship schemes to support meritorious and economically weaker students. Institute has very strong alumni network and scientific collaborations throughout the globe. Because of strong alumni connect and scientific/academic exposure to diverse domains for overall holistic development of young students, majority of students gets their job through institute placement cell.

In recognition to its contributions in research and teaching, the University Grants Commission (UGC) has accorded the highest level of status to the Institute as Centre of Advanced Study (CAS-II) in Pharmaceutical Sciences, the first university Institution in the country to be granted with this status. The UIPS has been the sole institute of the country that imparted training to more than 700 pharmacy professionals/teachers/ researchers in frontier and thrust domains of pharmaceutical sciences under UGC Networking Resource Centre (NRC) program.

The institute has recently received DST FIST grants (3rd time) with a tune of Rs. 1.18 crores for improvement of S&T infrastructure. UIPS Faculty have received approximately more than 1 Cr grant for their various research projects funded by various national governmental/industrial agencies in 2024-25. By virtue of its remarkable persistent and consistent attainments, UIPS has been ranked among top 10 Pharmacy Institutes of the country in NIRF ranking in last 10 years [Ranked 3 (2025), 8 (2023), 3 (2022), 2 (2021), 2 (2020), 2(2019), 2(2018), 3(2017), 2 (2016)]

FACULTY

Designation	Name	Field of Research Specialization
Professors Emeritus	S.K.Kulkarni	Pharmacology
Professors	Anil Kumar (Chairperson)	Pharmacology
	V.R. Sinha	Pharmaceutics
	Kanwaljit Chopra	Pharmacology
	Indu Pal Kaur	Pharmaceutics
	Ranju Bansal	Pharmaceutical Chemistry
	Poonam Piplani	Pharmaceutical Chemistry
	Maninder Karan	Pharmacognosy
	Alka Bali	Pharmaceutical Chemistry
Associate Professors	Anurag Khuhad	Pharmacology
	Neelima Dhingra	Pharmaceutical Chemistry
	Ashwani Kumar	Pharmacognosy
	Jai Malik	Pharmacognosy
	Vandita Kakkar	Pharmaceutics
	Amita Sarwal	Pharmaceutics
	Sangeeta Pilkhwal Sah	Pharmacology
Assistant Professors	Gurpal Singh (UGC FRP)	Pharmaceutics
	Ashok Kumar Yadav (UGC FRP)	Pharmaceutical Chemistry
	Sandeep V. Pawar (UGC FRP)	Pharmacology
	Ranjana Bhandari (Temporary)	Pharmaceutics

COURSES OFFERED

Courses	Seats	Duration	Eligibility/Admission Criteria
BACHELOR OF PHARMACY (B. PHARM.):			
B. Pharm.	46+6NRI + 12 Foreign National	4 years	50% Marks in 10+2 with English, Physics, Chemistry and Biology or Mathematics. Admission based on P.U. CET (UG)-2026

MASTER OF PHARMACY (M. PHARMA.):			
Regular Courses#		2 years	55% Marks in B. Pharm. from PCI approved Institutions/ Universities with GPAT Qualified Admission to all M. Pharm. Courses is made on the basis of combined merit calculated from aggregate marks obtained in B. Pharm. 4-years Course (30% weightage) and GPAT score (70% weightage). The Non-GPAT candidates will be considered for admission to the Self-Finance courses, only if the seat(s) remain vacant after admitting all GPAT-qualified candidates.
M. Pharm. in Pharmaceutical Chemistry	Category A: 08 Category B: 02 NRI: 02 FN: 03		
M. Pharm. in Pharmaceutics	Category A: 08 Category B: 02 NRI: 02 FN: 03		
M. Pharm. in Pharmacognosy	Category A: 08 Category B: 02 NRI: 02 FN: 03		
M. Pharm. in Pharmacology	Category A: 08 Category B: 02 NRI: 02 FN: 03		
Self-Finance Courses:			
M. Pharm. in Pharmaceutical Analysis	15+2 NRI +4 Foreign National		
M. Pharm. in Quality Assurance	15+2 NRI +4 Foreign National		
The admission of B. Pharm. and M. Pharm. courses under NRI/Foreign Nationals students' category shall be done as per basic qualifications fixed by Pharmacy Council of India. For B.Pharm: 10+2 with English, Physics, Chemistry, Biology or Mathematics and for M. Pharm 55% Marks in B. Pharm degree. The equivalence of the degree will be verified by the PU General Branch			

*5% concession is admissible in eligibility marks to SC/ST/BC/PwD candidates

**Category A
Category B**

**Panjab University candidates
Candidates from Institute other than Panjab University**

- Any seat(s) remaining unfilled under Category A will be transferred to Category B, and vice-versa.
- The reservation for the other categories (SC, ST, etc) in the mentioned number of seats (Category-A and Category-B) will be calculated as separate entity according to the general guidelines of the University for reservation
- NRI/Foreign National and additional seats filled in M. Pharm. courses shall not have any guarantee to provide GPAT scholarship.

Doctor of Philosophy in Regular Mode:

GPAT/ Panjab University Ph.D. Entrance Test qualified are registered from time to time for Ph.D., depending upon the availability of the PU Fellowship received by Student/Selected in the Research Projects sanctioned to the faculty or Open fellowships granted to the students by the various funding agencies, as fellowship is an essential criteria for Ph.D registration in Faculty of Pharmaceutical Sciences.

Doctor of Philosophy in Self-Finance Mode:

GPAT / Panjab University Ph.D. Entrance qualified students shall be registered in Self Sponsored Ph.D. programme. The candidate shall pay a fee of 1.5 lakh +Rs. 1,00,000/- contingency i.e. Rs. 2.50 lakhs per annum.

TITLES OF SYLLABI : Detailed syllabi available at <https://puhcd.ac.in/syllabus.php>

Bachelor of Pharmacy (B. Pharm.)			
Paper	Semester-I	Paper	Semester-II
BP101T	Human Anatomy and Physiology I- Theory	BP201T	Human Anatomy and Physiology II - Theory
BP102T	Pharmaceutical Analysis I -Theory	BP202T	Pharmaceutical Organic Chemistry I - Theory
BP103T	Pharmaceutics I - Theory	BP203T	Biochemistry - Theory
BP104T	Pharmaceutical Inorganic Chemistry - Theory	BP204T	Pathophysiology - Theory
BP105T	Communication skills - Theory *	BP205T	Computer Applications in Pharmacy - Theory*
BP106	RBT Remedial Biology/	BP206T	Environmental sciences - Theory *
BP106	RMT Remedial Mathematics - Theory*	BP207P	Human Anatomy and Physiology II -Practical
BP107P	Human Anatomy and Physiology - Practical	BP208P	Pharmaceutical Organic Chemistry I- Practical
BP108P	Pharmaceutical Analysis I - Practical	BP209P	Biochemistry - Practical
BP109P	Pharmaceutics I - Practical	BP210P	Computer Applications in Pharmacy - Practical*

BP110P	Pharmaceutical Inorganic Chemistry – Practical		
BP111P	Communication skills – Practical*		
BP112	RBP Remedial Biology – Practical*		
Semester-III		Semester-IV	
BP301T	Pharmaceutical Organic Chemistry II – Theory	BP401T	Pharmaceutical Organic Chemistry III – Theory
BP302T	Physical Pharmaceutics I – Theory	BP402T	Medicinal Chemistry I – Theory
BP303T	Pharmaceutical Microbiology – Theory	BP403T	Physical Pharmaceutics II – Theory
BP304T	Pharmaceutical Engineering – Theory	BP404T	Pharmacology I – Theory
BP305P	Pharmaceutical Organic Chemistry II – Practical	BP405P	Pharmacognosy and Phytochemistry I- Theory
BP306P	Physical Pharmaceutics I – Practical	BP406P	Medicinal Chemistry I – Practical
BP307P	Pharmaceutical Microbiology – Practical	BP407P	Physical Pharmaceutics II – Practical
BP308P	Pharmaceutical Engineering –Practical	BP408P	Pharmacology I – Practical
		BP409P	Pharmacognosy and Phytochemistry I – Practical
Semester-V		Semester-VI	
BP501T	Medicinal Chemistry II – Theory	BP601T	Medicinal Chemistry III – Theory
BP502T	Industrial Pharmacy I – Theory	BP602T	Pharmacology III – Theory
BP503T	Pharmacology II – Theory	BP603T	Herbal Drug Technology – Theory
BP504T	Pharmacognosy and Phytochemistry II- Theory	BP604T	Biopharmaceutics and Pharmacokinetics- Theory
BP505P	Pharmaceutical Jurisprudence – Theory	BP605T	Pharmaceutical Biotechnology – Theory
BP506P	Industrial Pharmacy I – Practical	BP606T	Quality Assurance – Theory
BP507P	Pharmacology II – Practical	BP607P	Medicinal chemistry III – Practical
BP508P	Pharmacognosy and Phytochemistry II – Practical	BP608P	Pharmacology III – Practical
		BP609P	Herbal Drug Technology – Practical
Semester-VII		Semester-VIII	
BP701T	Instrumental Methods of Analysis – Theory	BP801T	Biostatistics and Research Methodology – Theory
BP702T	Industrial Pharmacy II – Theory	BP802T	Social and Preventive Pharmacy – Theory
BP703T	Pharmacy Practice – Theory	BP803ET	Pharma Marketing Management – Theory
BP704T	Novel Drug Delivery System – Theory	BP804ET	Pharmaceutical Regulatory Science – Theory
BP705P	Instrumental Methods of Analysis – Practical	BP805ET	Pharmacovigilance – Theory
BP706PS	Practice School*	BP806ET	Quality Control and Standardization of Herbals – Theory
		BP807ET	Computer Aided Drug Design – Theory
		BP808ET	Cell and Molecular Biology – Theory
		BP809ET	Cosmetic Science – Theory
		BP810ET	Experimental Pharmacology – Theory
		BP811ET	Advanced Instrumentation Techniques – Theory
		BP812ET	Dietary Supplements and Nutraceuticals
		BP813ET	Pharmaceutical Product Development
		BP814PW	Project Work
* Non University Examination (NUE)			
Master of Pharmacy (M. Pharm.)			
M. Pharm. (Pharmaceutics)			
Semester-I		Semester-II	
MPH101T	Modern Pharmaceutical Analytical Techniques	MPH202T	Advanced Biopharmaceutics & Pharmacokinetics

MPH102T	Drug Delivery System	MPH203T	Computer Aided Drug Delivery System
MPH103T	Modern Pharmaceutics	MPH201T	Molecular Pharmaceutics (Nano Tech and Targeted DDS)
MPH104T	Regulatory Affair	MPH204T	Cosmetic and Cosmeceuticals
MPH105P	Pharmaceutics Practical I	MPH205P	Pharmaceutics Practical II
-	Seminar/Assignment	-	Seminar/Assignment
M. Pharm. (Pharmaceutical Chemistry)			
	Semester-I		Semester-II
MPC101T	Modern Pharmaceutical Analytical Techniques	MPC201T	Advanced Spectral Analysis
MPC1012T	Advanced Organic Chemistry -I	MPC202T	Advanced Organic Chemistry -II
MPC103T	Advanced Medicinal chemistry	MPC203T	Computer Aided Drug Design
MPC104T	Chemistry of Natural Products	MPC204T	Pharmaceutical Process Chemistry
MPC105P	Pharmaceutical Chemistry Practical I	MPC205P	Pharmaceutical Chemistry Practical II
-	Seminar/Assignment	-	Seminar/Assignment
M. Pharm. (Pharmacology)			
Paper	Semester-I		Semester-II
MPL 101T	Modern Pharmaceutical Analytical Techniques	MPL 201T	Advanced Pharmacology II
MPL 102T	Advanced Pharmacology	MPL 102T	Pharmacological and Toxicological Screening Methods-II
MPL 103T	Pharmacological and Toxicological Screening Methods-I	MPL 203T	Principles of Drug Discovery
MPL 104T	Cellular and Molecular Pharmacology	MPL 204T	Experimental Pharmacology practical- II
MPL 105P	Pharmacology Practical I	MPL 205P	Pharmacology Practical II
-	Seminar/Assignment	-	Seminar/Assignment
M. Pharm. (Pharmacognosy)			
Paper	Semester-I		Semester-II
MPG101T	Modern Pharmaceutical Analytical Techniques	MPG201T	Medicinal Plant biotechnology
MPG102T	Advanced Pharmacognosy	MPG102T	Advanced Pharmacognosy-II
MPG103T	Phytochemistry	MPG203T	Indian system of medicine
MPG104T	Industrial Pharmacognostical Technology	MPG204T	Herbal cosmetics
MPG105P	Pharmacognosy Practical I	MPG205P	Pharmacognosy Practical II
-	Seminar/Assignment	-	Seminar/Assignment
M. Pharm. (Pharmaceutical Analysis)			
Paper	Semester-I		Semester-II
MPA101T	Modern Pharmaceutical Analytical Techniques	MPA201T	Advanced Instrumental Analysis
MPA102T	Advanced Pharmaceutical Analysis	MPA202T	Modern Bio-Analytical Techniques
MPA103T	Pharmaceutical Validation	MPA203T	Quality Control and Quality Assurance
MPA104T	Food Analysis	MPA204T	Herbal and Cosmetic Analysis
MPA105P	Pharmaceutical Analysis Practical I	MPA205P	Pharmaceutical Analysis Practical II
-	Seminar/Assignment	-	Seminar/Assignment
M. Pharm. (Pharmaceutical Quality Assurance)			
Paper	Semester-I		Semester-II
MQA101T	Modern Pharmaceutical Analytical Techniques	MQA201T	Hazards and Safety Management
MQA102T	Quality Management System	MQA202T	Pharmaceutical Validation
MQA103T	Quality Control and Quality Assurance	MQA203T	Audits and Regulatory Compliance
MQA104T	Product Development and Technology Transfer	MQA204T	Pharmaceutical Manufacturing Technology
MQA105P	Pharmaceutical Quality Assurance Practical I	MQA205P	Pharmaceutical Quality Assurance Practical II

-	Seminar/Assignment	-	Seminar/Assignment
Course of study for M. Pharm. III Semester (Common for All Specializations)		Course of study for M. Pharm. IV Semester (Common for All Specializations)	
MRM301T	Research Methodology and Biostatistics	Journal club	
	Journal club	Discussion / Presentation	
	Discussion / Presentation (Proposal Presentation)	Research Work, thesis and viva-voce	
	Research Work		

THRUST AREAS: New Drug Discovery & Drug Development, Novel Drug Delivery Systems & Pharmaceutical Technology Herbal Drug Technology, Technology Advancements and Translational Research. Some of the research areas include, search for new chemical entities (synthetic/semi-synthetic/natural), QbD-based development of novel and nanostructured drug delivery systems, advanced pharmacokinetic modeling, crystal engineering of active biomolecules, advanced pharmacological studies related to drug discovery and development, herbal drug standardization and development of novel herbal formulations.

PLACEMENTS: The quality and productivity of the trained and skilled human resources by the UIPS has been ranked as par excellence in the country. A placement cell has been fully functional under the banner of Panjab University Pharmaceutical Society (PUPS) to provide better job opportunities and trailing to our UG/PG/Ph.D. students. Recruitment of the students by various industries and academic institutes is carried out through campus interviews. The Institute's students have been placed in various industries located in different parts of the country. The most common recruiters are Procter & Gamble, Dr. Reddy's, IPCA, Novartis, Viatris, Abott, Zydus-Cadila, Sun Pharma, Panacea Biotec, Dabur, Nicholas-Piramal, Ind-Swift, Heron, Quantum Solutions, Jubilant Pharma, E-valueserve, Root Analysis, Sentiss, Parexel, Biocon, Grey-B, and the likes.

ALUMNI RELATIONS: More than 1800 graduates, over 1590 post-graduates and 297 Ph.Ds are the proud alumni of the Institute. Several of these alumni adorn prestigious professional positions in industry, research and academic institutes across the globe including US, Canada, Australia and Europe. The UIPS holds an alumni meet every year and acts as an interface for a viable alumni network.