

Bachelor of Pharmacy

Batch 2026-2030

Semester I		
S No	Course Code	Course Title
1	BP101T	Basics of Python Programming for Pharmaceutical Sciences (Theory)
2	BP102T	General Pharmacy (Theory)
3	BP103T	Healthcare Psychology and Communication Skills (Theory)
4	BP104T	Human Anatomy, Physiology and Pathophysiology I (Theory)
5	BP105T	Introduction to Pharmacognosy (Theory)
6	BP106T	Pharmaceutical Inorganic and Analytical Chemistry (Theory)
7	BP107P	General Pharmacy (Practical)
8	BP108P	Healthcare Psychology and Communication Skills (Practical)
9	BP109P	Human Anatomy, Physiology and Pathophysiology I (Practical)
10	BP110P	Introduction to Pharmacognosy (Practical)
11	BP111P	Pharmaceutical Inorganic and Analytical Chemistry (Practical)

SEMESTER II		
S No	Course Code	Course Title
1	BP201T	Applied Biostatistics and Data Analytics for Pharmaceutical Sciences (Theory)
2	BP202T	Biochemistry (Theory)
3	BP203T	Human Anatomy, Physiology and Pathophysiology II (Theory)
4	BP204T	Pharmaceutical Organic Chemistry (Theory)
5	BP205T	Pharmacognosy and Phytochemistry (Theory)
6	BP206T	Physical Pharmaceutics (Theory)
7	BP207P	Biochemistry (Practical)
8	BP208P	Human Anatomy, Physiology and Pathophysiology II (Practical)

9	BP209P	Pharmaceutical Organic Chemistry (Practical)
10	BP210P	Pharmacognosy and Phytochemistry (Practical)
11	BP211P	Physical Pharmaceutics (Practical)
Optional to choose (Open Elective Basket)*		
12	*BP212P SEC1	Communication Skills
	*BP212P SEC2	Mental Well-Being, Stress & Conflict Management
	*BP212P SEC3	Fundamentals of Computer Operations

* Only one elective course shall be selected

The syllabi for elective subjects are given in the appendix

SEMESTER III		
S No	Course Code	Course Title
1	BP301T	Introduction to Machine Learning in Pharmaceutical Sciences (Theory)
2	BP302T	Environmental Sciences (Theory)
3	BP303T	Ethics and Universal Human Values (Theory)
4	BP304T	General Pharmacology (Theory)
5	BP305T	Heterocyclic Compounds and Stereochemistry (Theory)
6	BP306T	Pharmaceutical Dosage Forms I (Theory)
7	BP307T	Pharmaceutical Engineering (Theory)
8	BP308T	Pharmaceutical Microbiology (Theory)
9	BP309P	General Pharmacology (Practical)
10	BP310P	Heterocyclic Compounds and Stereochemistry (Practical)
11	BP311P	Pharmaceutical Dosage Forms I (Practical)
Optional to choose (Open Elective Basket)*		
12	*BP312P (AEC1)	Nutraceuticals and Functional Foods
	*BP312P (AEC2)	Food Analysis
	*BP312P (AEC3)	Yoga and Life Sciences

* Only 1 elective course shall be selected

SEMESTER IV		
S No	Course Code	Course Title
1	BP401T	Herbal Drug Technology (Theory)
2	BP402T	Medicinal Chemistry (Theory)
3	BP403T	Pharmaceutical Biotechnology (Theory)
4	BP404T	Social Pharmacy and Public Health (Theory)
5	BP405T	Systemic Pharmacology I (Theory)
6	BP406P	Herbal Drug Technology (Practical)
7	BP407P	Medicinal Chemistry (Practical)
8	BP408P	Pharmaceutical Biotechnology (Practical)
9	BP409P	Social Pharmacy and Public Health (Practical)
10	BP410P	Systemic Pharmacology I (Practical)
11	BP411I	Internship (Mandatory)

SEMESTER V		
S No	Course Code	Course Title
1	BP501T	Biomedical Chemistry (Theory)
2	BP502T	Industrial Pharmacognosy (Theory)
3	BP503T	Innovation and Startup Ecosystem (Theory)
4	BP504T	Pharmaceutical Dosage Form II (Theory)

5	BP505T	Pharmaceutical Quality Assurance (Theory)
6	BP506T	Systemic Pharmacology II (Theory)
7	BP507P	Biomedical Chemistry (Practical)
8	BP508P	Industrial Pharmacognosy (Practical)
9	BP509P	Pharmaceutical Dosage Form II (Practical)
10	BP510P	Systemic Pharmacology II (Practical)

SEMESTER VI		
S No	Course Code	Course Title
1	BP601T	Advanced Pharmacognosy (Theory)
2	BP602T	Biopharmaceutics and Pharmacokinetics (Theory)
3	BP603T	Intellectual Property Rights (Theory)
4	BP604T	AI Applications in Pharmaceutical Sciences (Theory)
5	BP605T	Pharmaceutical Analysis (Theory)
6	BP606T	Pharmaceutical Jurisprudence (Theory)
Optional to choose (Open Elective Basket)*		
7	BP607T (AEC1)	Green Chemistry
	BP607T (AEC2)	Materiovigilance and Hemovigilance
	BP607T (AEC3)	Scientific Writing
	BP607T (AEC4)	Drug Store and Business Management
	BP607T (AEC5)	Career Building in Cultivation of Medicinal Plants
	BP607T (AEC6)	Active Pharmaceutical Ingredients and Excipient Sciences
8	BP608P	Biopharmaceutics and Pharmacokinetics (Practical)
9	BP609P	Pharmaceutical Analysis (Practical)
Optional to choose (Open Elective Basket)*		
10	BP610P (SEC1)	Computer-Aided Drug Design
	BP610P (SEC2)	Analytical Method Development and Validation
	BP610P (SEC3)	Principles of Preclinical Studies
Optional to choose (Open Elective Basket)*		
11	BP611P (VAC1)	Professional Skills
	BP611P (VAC2)	Process Analytical Technology (PAT) and QbD in Formulation Science
12	BP612I	Internship (Mandatory)

* Only 1 course shall be selected from each

SEMESTER VII		
S No	Course Code	Course Title
1	BP701T	Biostatistics & Research Methodology (Theory)
2	BP702T	Cosmetics and Cosmeceuticals (Theory)
3	BP703T	AI in Clinical Applications (Theory)
4	BP704T	Modern Analytical Techniques (Theory)
5	BP705T	Pharmacovigilance (Theory)
6	BP706T	Pharmacy Practice (Theory)
7	BP707T	Regulatory Affairs (Theory)
Optional to choose (Open Elective Basket)*		
8	BP708T (AEC1)	Current Good Manufacturing Practices (cGMP)
	BP708T (AEC2)	Pharmaceutical Automation
	BP708T (AEC3)	Modern Techniques in Cellular Biology
	BP708T (AEC4)	Medical Devices
	BP708T (AEC5)	Transformation of Food Waste into Medicinal Products
	BP708T (AEC6)	Biosimilars, Vaccines & Macromolecules
9	BP709P	Modern Analytical Techniques (Practical)
10	BP710RP	Research Project

* One course shall be selected from the Elective Basket

SEMESTER VIII		
S No	Course Code	Course Title
1	BP801T	Ethical Considerations and Translational Applications of AI in Pharmacy (Theory)
2	BP802T	Clinical Pharmacotherapeutics (Theory)
3	BP803T	Industrial Pharmacy and Facility Design (Theory)
4	BP804T	Pharmaceutical Management (Theory)
5	BP805T	Sterile Dosage Forms and Novel Drug Delivery System (Theory)
Optional to choose (Open Elective Basket)*		
6	BP806T (AEC1)	Pharmaceutical Packaging
	BP806T (AEC2)	Supply Chain Management
	BP806T (AEC3)	Industrial Safety and Waste Management
	BP806T (AEC4)	Traditional Healing Practices of India
	BP806T (AEC5)	Futuristic Pharma through AR/VR: Pharma 4.0
	BP806T (AEC6)	Herbal Cosmetics for Industry Perspective
7	BP807P	Pharmaceutical Marketing Skills (Practical)
8	BP808P	Sterile Dosage Forms and Novel Drug Delivery System (Practical)
Optional to choose (Open Elective Basket)*		
9	BP809P (VAC1)	Cleaning Validation
	BP809P (VAC2)	Basic Training in Aseptic Handling Techniques
	BP809P (VAC3)	Impurity Profiling
10	BP810RP	Research Project

* One course shall be selected from the each elective Basket