

## B. Pharmacy

### Curriculum

**For (2026-27 admitted batch)**

#### Total Credits per Semester

S. No	Semester	Credit Points
1	I	21
2	II	26
3	III	25
4	IV	23
5	V	22
6	VI	26
7	VII	26
8	VIII	24
9	<b>Grand Total</b>	<b>193</b>

#### Semester I

S. No	Course code	Course title	L	P	Credits
1	BP101T	Basics of Python Programming for Pharmaceutical Sciences (Theory)	2	0	2
2	BP102T	General Pharmacy (Theory)	3	0	3
3	BP103T	Healthcare Psychology and Communication Skills (Theory)	1	0	1
4	BP104T	Human Anatomy, Physiology, and Pathophysiology I (Theory)	4	0	4
5	BP105T	Introduction to Pharmacognosy (Theory)	3	0	3
6	BP106T	Pharmaceutical Inorganic and Analytical Chemistry (Theory)	3	0	3
7	BP107P	General Pharmacy (Practical)	0	3	1
8	BP108P	Healthcare Psychology and Communication Skills (Practical)	0	2	1
9	BP109P	Human Anatomy, Physiology and Pathophysiology I (Practical)	0	3	1
10	BP110P	Introduction to Pharmacognosy (Practical)	0	3	1
11	BP111P	Pharmaceutical Inorganic and Analytical Chemistry (Practical)	0	3	1
<b>Total</b>			<b>30</b>		<b>21</b>

## Semester II

S. No	Course code	Course title	T	P	Credits	
1	BP201T	Applied Biostatistics and Data Analytics for Pharmaceutical Sciences (Theory)	2	0	2	
2	BP202T	Biochemistry (Theory)	3	0	3	
3	BP203T	Human Anatomy, Physiology and Pathophysiology II (Theory)	4	0	4	
4	BP204T	Pharmaceutical Organic Chemistry (Theory)	4	0	4	
5	BP205T	Pharmacognosy and Phytochemistry (Theory)	4	0	4	
6	BP206T	Physical Pharmaceutics (Theory)	3	0	3	
7	BP207P	Biochemistry (Practical)	3	3	1	
8	BP208P	Human Anatomy, Physiology and Pathophysiology II (Practical)	3	2	1	
9	BP209P	Pharmaceutical Organic Chemistry (Practical)	3	3	1	
10	BP210P	Pharmacognosy and Phytochemistry (Practical)	3	3	1	
11	BP211P	Physical Pharmaceutics (Practical)	3	3	1	
12	BP212P SEC*	BP212P SEC1	Communication Skills		2	1
		BP212P SEC2	Mental Well-Being, Stress & Conflict Management			
		BP212P SEC3	Fundamentals of Computer Operations			
<b>Total</b>			<b>37</b>		<b>26</b>	

Semester III

<b>S. No</b>	<b>Course Code</b>	<b>Course title</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	
1	BP301T	Introduction to Machine Learning in Pharmaceutical Sciences (Theory)	2	0	2	
2	BP302T	Environmental Sciences (Theory)	1	0	1	
3	BP303T	Ethics and Universal Human Values (Theory)	1	0	1	
4	BP304T	General Pharmacology (Theory)	3	0	3	
5	BP305T	Heterocyclic Compounds and Stereochemistry (Theory)	3	0	3	
6	BP306T	Pharmaceutical Dosage Forms I (Theory)	3	0	3	
7	BP307T	Pharmaceutical Engineering (Theory)	3	0	3	
8	BP308T	Pharmaceutical Microbiology (Theory)	3	0	3	
9	BP309P	General Pharmacology (Practical)	0	4	2	
10	BP310P	Heterocyclic Compounds and Stereochemistry (Practical)	0	4	2	
11	BP311P	Pharmaceutical Dosage Forms I (Practical)	0	3	1	
12	BP312P AEC*	BP312P AEC1	Nutraceutical and Functional Foods		2	1
		BP312P AEC2	Food Analysis			
		BP312P AEC3	Yoga and Life Sciences			
<b>Total</b>			<b>32</b>	<b>25</b>		

Semester IV

<b>S.No</b>	<b>Course code</b>	<b>Course title</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
1	BP401T	Herbal Drug Technology (Theory)	3	0	3
2	BP402T	Medicinal Chemistry (Theory)	3	0	3
3	BP403T	Pharmaceutical Biotechnology (Theory)	3	0	3
4	BP404T	Social Pharmacy and Public Health (Theory)	2	0	2
5	BP405T	Systemic Pharmacology I (Theory)	3	0	3
6	BP406P	Herbal Drug Technology (Practical)	0	3	1
7	BP407P	Medicinal Chemistry (Practical)	0	3	1
8	BP408P	Pharmaceutical Biotechnology (Practical)	0	3	1
9	BP409P	Social Pharmacy and Public Health (Practical)	0	2	1
10	BP410P	Systemic Pharmacology I (Practical)	0	3	1
11	BP411I	Internship (Mandatory)	8	4	4
<b>Total</b>			<b>28</b>		<b>23</b>

Semester V

<b>S.No</b>	<b>Course code</b>	<b>Course title</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
1	BP501T	Biomedical Chemistry (Theory)	3	0	3
2	BP502T	Industrial Pharmacognosy (Theory)	3	0	3
3	BP503T	Innovation and Startup Ecosystem (Theory)	2	0	2
4	BP504T	Pharmaceutical Dosage Form II (Theory)	2	0	2
5	BP505T	Pharmaceutical Quality Assurance (Theory)	3	0	3
6	BP506T	Systemic Pharmacology II (Theory)	3	3	3
7	BP507P	Biomedical Chemistry (Practical)	4	3	2
8	BP508P	Industrial Pharmacognosy (Practical)	3	3	1
9	BP509P	Pharmaceutical Dosage Form II (Practical)	3	2	1
10	BP510P	Systemic Pharmacology II (Practical)	4	3	2
<b>Total</b>			<b>30</b>		<b>22</b>

Semester VI

S.No	Course Code	Course title	T	P	Credits
1	BP601T	Advanced Pharmacognosy (Theory)	3	0	3
2	BP602T	Biopharmaceutics and Pharmacokinetics (Theory)	3	0	3
3	BP603T	Intellectual Property Rights (Theory)	2	0	2
4	BP604T	AI applications in Pharmaceutical Sciences (Theory)	2	0	2
5	BP605T	Pharmaceutical Analysis (Theory)	3	0	3
6	BP607T AEC*	BP607T AEC1	1	1	1
7		BP607T AEC2			
8		BP607T AEC3			
9		BP607T AEC4			
10		BP607T AEC5			
11		BP607T AEC6			
12	BP608P	Biopharmaceutics and Pharmacokinetics (Practical)	0 0	3 2	1
		Pharmaceutical Analysis (Practical)			
	BP609P	BP312P AEC3			
14	BP610P SEC*	BP610P SEC1	2	1	1
		BP610P SEC2			
		BP610P SEC3			
15	BP611 P VAC*	BP611P VAC1	2	1	1
		BP611P VAC2			
16	BP612 I	Internship (Mandatory)	8	4	4
<b>Total</b>			<b>28</b>	<b>26</b>	

Semester VII

S.No	Course Code	Course title	T	P	Credits	
1	BP701T	Biostatistics Research methodology (Theory)	3	0	3	
2	BP702T	Cosmetics and Cosmeceuticals (Theory)	2	0	2	
3	BP703T	AI in Clinical applications (Theory)	2	0	2	
4	BP704T	Modern Analytical Techniques (Theory)	3	0	3	
5	BP705T	Pharmacovigilance (Theory)	3	0	3	
6	BP706T	Pharmacy Practice (Theory)	3	0	3	
7	BP707T	Regulatory Affairs (Theory)	2	0	2	
8	BP708T AEC	BP708T AEC1	Current Good Manufacturing Practices (cGMP)		1	1
		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)	0	3	1	
10	BP710RP	Research Project	-		6	
Total				22	26	

Semester VIII

S.No	Course Code	Course title	T	P	Credits	
1	BP801T	Ethical Considerations and Translational Applications of AI in Pharmacy (Theory)	2	0	2	
2	BP802T	Clinical Pharmacotherapeutics (Theory)	2	0	2	
3	BP803T	Industrial Pharmacy and Facility Design (Theory)	3	0	3	
4	BP804T	Pharmaceutical Management (Theory)	2	0	2	
5	BP805T	Sterile Dosage Forms and Novel Drug Delivery System (Theory)	3	0	3	
8	BP806T AEC*	BP806T AEC1	Pharmaceutical Packaging		2	2
		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			
9	BP807P	Pharmaceutical Marketing Skills (Practical)	0	2	1	
10	BP808P	Sterile Dosage Forms and Novel Drug Delivery System (Practical)	0	4	6	
11	BP809P VAC*	BP809P VAC1	Cleaning Validation		2	1
		BP809P VAC2	Basic Training in Aseptic Handling Techniques			
		BP809P VAC3	Impurity Profiling			
12	BP810RP	Research Project	-		6	
Total			22		24	