



**BRAINWARE UNIVERSITY**  
**SCHOOL OF MEDICAL & ALLIED HEALTH SCIENCES**  
**DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY**  
**Bachelor of Pharmacy – 2026**  
**(As per UGC NEP 2020)**

**Semestar-1**

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	BP101T	Basics of Python Programming for Pharmaceutical Sciences (Theory)	2	0	0	20	30	50	2	Core
2	BP102T	General Pharmacy (Theory)	3	0	0	30	45	75	3	Core
3	BP103T	Healthcare Psychology and Communication Skills (Theory)	1	0	0	20	30	50	1	Core
4	BP104T	Human Anatomy, Physiology and Pathophysiology I (Theory)	4	0	0	40	60	100	4	Core
5	BP105T	Introduction to Pharmacognosy (Theory)	3	0	0	30	45	75	3	Core
6	BP106T	Pharmaceutical Inorganic and Analytical Chemistry (Theory)	3	0	0	30	45	75	3	Core
7	BP107P	General Pharmacy (Practical)	0	0	3	20	30	50	1	Core
8	BP108P	Healthcare Psychology and Communication Skills (Practical)	0	0	2	20	30	50	1	Core
9	BP109P	Human Anatomy, Physiology and Pathophysiology I (Practical)	0	0	3	20	30	50	1	Core
10	BP110P	Introduction to Pharmacognosy (Practical)	0	0	3	20	30	50	1	Core
11	BP111P	Pharmaceutical Inorganic and Analytical Chemistry (Practical)	0	0	3	20	30	50	1	Core
<b>Total</b>			<b>16</b>	<b>0</b>	<b>14</b>	<b>270</b>	<b>405</b>	<b>675</b>	<b>21</b>	



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**Semestar-2**

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	BP201T	Applied Biostatistics and Data Analytics for Pharmaceutical Sciences (Theory)	2	0	0	20	30	50	2	Core
2	BP202T	Biochemistry (Theory)	3	0	0	30	45	75	3	Core
3	BP203T	Human Anatomy, Physiology and Pathophysiology II (Theory)	4	0	0	40	60	100	4	Core
4	BP204T	Pharmaceutical Organic Chemistry (Theory)	4	0	0	40	60	100	4	Core
5	BP205T	Pharmacognosy and Phytochemistry (Theory)	4	0	0	40	60	100	4	Core
6	BP206T	Physical Pharmaceutics (Theory)	3	0	0	30	45	75	3	Core
7	BP207P	Biochemistry (Practical)	0	0	3	20	30	50	1	Core
8	BP208P	Human Anatomy, Physiology and Pathophysiology II (Practical)	0	0	3	20	30	50	1	Core
9	BP209P	Pharmaceutical Organic Chemistry (Practical)	0	0	3	20	30	50	1	Core
10	BP210P	Pharmacognosy and Phytochemistry (Practical)	0	0	3	20	30	50	1	Core
11	BP211P	Physical Pharmaceutics (Practical)	0	0	3	20	30	50	1	Core
12	BP212P SEC*	BP212P SEC1	0	0	2	20	30	50	1	Elective
		BP212P SEC2								
		BP212P SEC3								
<b>Total</b>			<b>20</b>	<b>0</b>	<b>17</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>26</b>	



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**Semestar-3**

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	BP301T	Introduction to Machine Learning in Pharmaceutical Sciences (Theory)	2	0	0	20	30	50	2	Core
2	BP302T	Environmental Sciences (Theory)	1	0	0	20	30	50	1	Core
3	BP303T	Ethics and Universal Human Values (Theory)	1	0	0	20	30	50	1	Core
4	BP304T	General Pharmacology (Theory)	3	0	0	30	45	75	3	Core
5	BP305T	Heterocyclic Compounds and Stereochemistry (Theory)	3	0	0	30	45	75	3	Core
6	BP306T	Pharmaceutical Dosage Forms I (Theory)	3	0	0	30	45	75	3	Core
7	BP307T	Pharmaceutical Engineering (Theory)	3	0	0	30	45	75	3	Core
8	BP308T	Pharmaceutical Microbiology (Theory)	3	0	0	30	45	75	3	Core
9	BP309P	General Pharmacology (Practical)	0	0	4	20	30	50	2	Core
10	BP310P	Heterocyclic Compounds and Stereochemistry (Practical)	0	0	4	20	30	50	2	Core
11	BP311P	Pharmaceutical Dosage Forms I (Practical)	0	0	3	20	30	50	1	Core
12	BP312 PAEC*	BP312P AEC1	0	0	1	20	30	50	1	Elective
		BP312P AEC2								
		BP312P AEC3								
<b>Total</b>			<b>19</b>	<b>0</b>	<b>12</b>	<b>290</b>	<b>435</b>	<b>725</b>	<b>25</b>	



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**Semestar-4**

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	BP401T	Herbal Drug Technology (Theory)	3	0	0	30	45	75	3	Core
2	BP402T	Medicinal Chemistry (Theory)	3	0	0	30	45	75	3	Core
3	BP403T	Pharmaceutical Biotechnology (Theory)	3	0	0	30	45	75	3	Core
4	BP404T	Social Pharmacy and Public Health (Theory)	2	0	0	20	30	50	2	Core
5	BP405T	Systemic Pharmacology I (Theory)	3	0	0	30	45	75	3	Core
6	BP406P	Herbal Drug Technology (Practical)	0	0	3	20	30	50	1	Core
7	BP407P	Medicinal Chemistry (Practical)	0	0	3	20	30	50	1	Core
8	BP408P	Pharmaceutical Biotechnology (Practical)	0	0	3	20	30	50	1	Core
9	BP409P	Social Pharmacy and Public Health (Practical)	0	0	2	20	30	50	1	Core
10	BP410P	Systemic Pharmacology I (Practical)	0	0	3	20	30	50	1	Core
11	BP411I	Internship (Mandatory)	0	0	8	0	100	100	4	Internship
<b>Total</b>			<b>14</b>	<b>0</b>	<b>22</b>	<b>240</b>	<b>460</b>	<b>700</b>	<b>23</b>	



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**Semestar-5**

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	BP501T	Biomedical Chemistry (Theory)	3	0	0	30	45	75	3	Core
2	BP502T	Industrial Pharmacognosy (Theory)	3	0	0	30	45	75	3	Core
3	BP503T	Innovation and Startup Ecosystem (Theory)	2	0	0	20	30	50	2	Core
4	BP504T	Pharmaceutical Dosage Form II (Theory)	2	0	0	20	30	50	2	Core
5	BP505T	Pharmaceutical Quality Assurance (Theory)	3	0	0	30	45	75	3	Core
6	BP506T	Systemic Pharmacology II (Theory)	3	0	0	30	45	75	3	Core
7	BP507P	Biomedical Chemistry (Practical)	0	0	4	20	30	50	2	Core
8	BP508P	Industrial Pharmacognosy (Practical)	0	0	3	20	30	50	1	Core
9	BP509P	Pharmaceutical Dosage Form II (Practical)	0	0	3	20	30	50	1	Core
10	BP510P	Systemic Pharmacology II(Practical)	0	0	4	20	30	50	2	Core
<b>Total</b>			<b>16</b>	<b>0</b>	<b>14</b>	<b>240</b>	<b>360</b>	<b>600</b>	<b>22</b>	



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**Semestar-6**

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type	
						CIA	TEE				
1	BP601T	Advanced Pharmacognosy (Theory)	3	0	0	30	45	75	3	Core	
2	BP602T	Biopharmaceutics and Pharmacokinetics (Theory)	3	0	0	30	45	75	3	Core	
3	BP603T	Intellectual Property Rights (Theory)	2	0	0	20	30	50	2	Core	
4	BP604T	AI applications in Pharmaceutical Sciences (Theory)	2	0	0	20	30	50	2	Core	
5	BP605T	Pharmaceutical Analysis (Theory)	3	0	0	30	45	75	3	Core	
6	BP606T	Pharmaceutical Jurisprudence (Theory)	3	0	0	30	45	75	3	Core	
7	BP607T AEC*	BP607T AEC1	1	0	0	20	30	50	1	Elective	
		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)	0	0	3	20	30	50	1	Core	
9	BP609P	Pharmaceutical Analysis (Practical)	0	0	4	20	30	50	2	Core	
10	BP610P SEC*	BP610P SEC1	0	0	2	20	30	50	2	Elective	
		BP610P SEC2									Analytical Method Development and Validation



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		BP610P SEC3	Principles of Preclinical Studies								
11	<b>BP611P VAC*</b>	BP611P VAC1	Professional Skills	0	0	2	20	30	50	1	Elective
		BP611P VAC2	Process Analytical Technology (PAT) and QbD in Formulation Science								
12		BP612I	Internship (Mandatory)	0	0	0	0	100	100	4	Core
<b>Total</b>				<b>17</b>	<b>0</b>	<b>11</b>	<b>260</b>	<b>490</b>	<b>750</b>	<b>27</b>	



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**Semestar-7**

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type	
						CIA	TEE				
1	BP701T	Biostatistics Research methodology (Theory)	3	0	0	30	45	75	3	Core	
2	BP702T	Cosmetics and Cosmeceuticals (Theory)	2	0	0	20	30	50	2	Core	
3	BP703T	AI in Clinical applications (Theory)	2	0	0	20	30	50	2	Core	
4	BP704T	Modern Analytical Techniques (Theory)	3	0	0	30	45	75	3	Core	
5	BP705T	Pharmacovigilance (Theory)	3	0	0	30	45	75	3	Core	
6	BP706T	Pharmacy Practice (Theory)	3	0	0	30	45	75	3	Core	
	BP707T	Regulatory Affairs (Theory)	2	0	0	20	30	50	2	Core	
7	<b>BP708T AEC</b>	BP708T AEC1	1	0	0	20	30	50	1	Elective	
		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
BP708T AEC7	Precision Medicine										
	<b>BP709P</b>	Modern Analytical Techniques (Practical)	0	0	3	20	30	50	1	Core	
	<b>BP710RP</b>	Research Project	0	0	0	0	150	150	6	Core	
<b>Total</b>			<b>19</b>	<b>0</b>	<b>3</b>	<b>220</b>	<b>480</b>	<b>700</b>	<b>26</b>		



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**Semestar-8**

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course Type	
						CIA	TEE				
1	BP801T	Ethical Considerations and Translational Applications of AI in Pharmacy (Theory)	2	0	0	20	30	50	2	Core	
2	BP802T	Clinical Pharmacotherapeutics (Theory)	2	0	0	20	30	50	2	Core	
3	BP803T	Industrial Pharmacy and Facility Design (Theory)	3	0	0	30	45	75	3	Core	
4	BP804T	Pharmaceutical Management (Theory)	2	0	0	20	30	50	2	Core	
5	BP805T	Sterile Dosage Forms and Novel Drug Delivery System (Theory)	3	0	0	30	45	75	3	Core	
6	<b>BP806T AEC*</b>	BP806T AEC1	2	0	0	20	30	50	2	Elective	
		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	<b>BP807P</b>	Pharmaceutical Marketing Skills (Practical)	0	0	2	20	30	50	1	Core	
8	<b>BP808P</b>	Sterile Dosage Forms and Novel Drug Delivery System (Practical)	0	0	4	20	30	50	2	Core	



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9	<b>BP809 P VAC*</b>	BP809P VAC1	Cleaning Validation	0	0	2	20	30	50	1	Elective
		BP809P VAC2	Basic Training in Aseptic Handling Techniques								
		BP809P VAC3	Impurity Profiling								
10	<b>BP810RP</b>		Research Project	0	0	0	0	150	150	6	Core
<b>Total</b>				<b>14</b>	<b>0</b>	<b>8</b>	<b>200</b>	<b>450</b>	<b>650</b>	<b>24</b>	