

**SEMESTER- I (B. Pharmacy)**

S. N.	Category	Paper Code	Subject	L	T	P/D	Credits	Evaluation Scheme				
								Internal Assessment			ESE	Subject Total
								CT	TA	Total		
<b>Theory:</b>												
1	PC	BP101 T	Human Anatomy and Physiology I– Theory	3	1	-	4	15	10	25	75	100
2	PC	BP102 T	BP102T Pharmaceutical Analysis I – Theory	3	1	-	4	15	10	25	75	100
3	PC	BP103 T	BP103T Pharmaceutics I – Theory	3	1	-	4	15	10	25	75	100
4	PC	BP104 T	Pharmaceutical Inorganic Chemistry – Theory	3	1	-	4	15	10	25	75	100
5	MC	BP105 T	BP105T Communication skills – Theory *	2	-	-	2	10	5	15	35	50
6	MC	BP106 RBT BP106 RMT	Remedial Biology/ Remedial Mathematics – Theory*	2	-	-	2	10	5	15	35	50
<b>Labs:</b>												
1	PC	BP107 P	Human Anatomy and Physiology – Practical	-	-	4	2	10	5	15	35	50
2	P C	BP108 P	BP108P Pharmaceutical Analysis I – Practical	-	-	4	2	10	5	15	35	50
3	P C	BP109 P	BP109P Pharmaceutics I – Practical	-	-	4	2	10	5	15	35	50
4	PC	BP110 P	Pharmaceutical Inorganic Chemistry – Practical	-	-	4	2	10	5	15	35	50
	MC	BP111 P	Communication skills – Practical*	-	-	2	1	5	5	10	15	25
	MC	BP112 RBP	Remedial Biology – Practical*	-	-	2	1	5	5	10	15	25
<b>Total</b>				<b>16</b>	<b>4</b>	<b>18/20</b>	<b>29/30</b>					<b>675/725 \$/ 750#</b>
<b>Total work Load=27 Hrs.</b>							<b>Total Credit = 27/29\$/30#</b>					

#Applicable ONLY for the students who have studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB)course.

\$Applicable ONLY for the students who have studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM)course.

\* Non University Examination (NUE)

**Legend:**

L	Lecture	ESE	End Semester Examination
T	Tutorial	PC	Program Core Courses
P	Practical	FC	Foundation Courses
CT	Class Test	HS	Humanities and social science
TA	Teacher's Assessment	MC	Mandatory Course

**SEMESTER – II (B. Pharmacy)**

S. N.	Category	Paper Code	Subject	L	T	P/D	Credits	Evaluation Scheme				
								Internal Assessment			ESE	Subject Total
								CT	TA	Total		
<b>Theory:</b>												
1	MC	BP201 T	Human Anatomy and Physiology II – Theory	3	1	-	4	15	10	25	75	100
2	PC	BP202 T	Pharmaceutical Organic Chemistry I – Theory	3	1	-	4	15	10	25	75	100
3	PC	BP203 T	Biochemistry – Theory	3	1	-	4	15	10	25	75	100
4	PC	BP204 T	Pathophysiology – Theory	3	1	-	4	15	10	25	75	100
5	PC	BP205 T	Computer Applications in Pharmacy – Theory *	3	-	-	3	15	10	25	75	100
6	FC	BP206 T	Environmental sciences – Theory *	3	-	-	3	15	10	25	75	100
<b>Labs:</b>												
1	PC	BP207 P	Human Anatomy and Physiology II – Practical		-	4	2	10	5	15	35	50
2	PC	BP208 P	Pharmaceutical Organic Chemistry I – Practical		--	4	2	10	5	15	35	50
3	PC	BP209 P	Biochemistry – Practical		-	4	2	10	5	15	35	50
4	PC	BP210 P	Computer Applications in Pharmacy – Practical*		-	2	1	5	5	10	15	25
<b>Total</b>				<b>18</b>	<b>0</b>	<b>14</b>	<b>29</b>					<b>725</b>
<b>Total Work Load 32 Hrs.</b>				<b>Total Credit 29</b>								

\* The subject experts at college level shall conduct examinations

**Legend:**

L	Lecture	ESE	End Semester Examination
T	Tutorial	PC	Program Core Courses
P	Practical	FC	Foundation Courses
CT	Class Test	HS	Humanities and social science
TA	Teacher's Assessment	MC	Mandatory Course

**SEMESTER- III (B. Pharmacy)**

S. N.	Category	Paper Code	Subject	L	T	P/D	Credits	Evaluation Scheme				
								Internal Assessment			ESE	Subject Total
								CT	TA	Total		
<b>Theory:</b>												
1	PC	BP301 T	Pharmaceutical Organic Chemistry II – Theory	3	1		4	15	10	25	75	100
2	PC	BP302 T	Physical Pharmaceutics I – Theory	3	1		4	15	10	25	75	100
3	PC	BP303 T	Pharmaceutical Microbiology – Theory	3	1		4	15	10	25	75	100
4	PC	BP304 T	Pharmaceutical Engineering – Theory	3	1		4	15	10	25	75	100
Labs:												
1	PC	BP305 P	Pharmaceutical Organic Chemistry II – Practical			4	2	10	5	15	35	50
2	PC	BP306 P	Physical Pharmaceutics I – Practical			4	2	10	5	15	35	50
3	PC	BP307 P	Pharmaceutical Microbiology – Practical			4	2	10	5	15	35	50
4	PC	BP 308P	Pharmaceutical Engineering –Practical			4	2	10	5	15	35	50
<b>Total</b>				<b>12</b>	<b>4</b>	<b>16</b>	<b>24</b>					<b>600</b>
<b>Total Work Load=32 Hrs.</b>							<b>Total Credit 24</b>					

**Legend:**

L	Lecture	ESE	End Semester Examination
T	Tutorial	PC	Program Core Courses
P	Practical	FC	Foundation Courses
CT	Class Test	HS	Humanities and social science
TA	Teacher's Assessment	MC	Mandatory Course

**SEMESTER- IV (B. Pharmacy)**

S. N.	Category	Paper Code	Subject	L	T	P/D	Credits	Evaluation Scheme				
								Internal Assessment			ESE	Subject Total
								CT	TA	Total		
<b>Theory:</b>												
1	FC	BP401 T	Pharmaceutical Organic Chemistry III– Theory	3	1		4	15	10	25	75	100
2	PC	BP402 T	Medicinal Chemistry I – Theory	3	1		4	15	10	25	75	100
3	PC	BP403 T	Physical Pharmaceutics II – Theory	3	1		4	15	10	25	75	100
4	PC	BP404 T	Pharmacology I – Theory	3	1		4	15	10	25	75	100
5	PC	BP405 T	Pharmacognosy and Phytochemistry I– Theory	3	1		4	15	10	25	75	100
Labs:												
1	CC	BP406 P	Medicinal Chemistry I – Practical			4	2	10	5	15	35	50
2	PC	BP407 P	Physical Pharmaceutics II– Practical			4	2	10	5	15	35	50
3	PC	BP408 P	Pharmacology I – Practical			4	2	10	5	15	35	50
4	PC	BP409 P	Pharmacognosy and Phytochemistry I – Practical			4	2	10	5	15	35	50
<b>Total</b>				<b>15</b>	<b>5</b>	<b>16</b>	<b>28</b>					<b>700</b>
<b>Total Working = 36 Hrs.</b>							<b>Total Credit =28</b>					

**Legend:**

L	Lecture	ESE	End Semester Examination
T	Tutorial	PC	Program Core Courses
P	Practical	FC	Foundation Courses
CT	Class Test	HS	Humanities and social science
TA	Teacher's Assessment	MC	Mandatory Course

**SEMESTER- V (B. Pharmacy)**

S. N.	Category	Paper Code	Subject	L	T	P/D	Credits	Evaluation Scheme				
								Internal Assessment			ESE	Subject Total
								CT	TA	Total		
<b>Theory:</b>												
1	PC	BP 501T	Medicinal Chemistry II – Theory	3	1	-	4	15	10	25	75	100
2	PC	BP 502T	Industrial Pharmacy I – Theory	3	1	-	4	15	10	25	75	100
3	PC	BP 503T	Pharmacology II – Theory	3	1	-	4	15	10	25	75	100
4	PC	BP 504T	Pharmacognosy and Phytochemistry II – Theory	3	1	-	4	15	10	25	75	100
5	PC	BP 505T	Pharmaceutical Jurisprudence – Theory	3	1	-	4	15	10	25	75	100
<b>Labs:</b>												
1	PC	BP 506P	Industrial Pharmacy I – Practical	-	-	4	2	10	5	15	35	50
2	PC	BP 507P	Pharmacology II – Practical	-	-	4	2	10	5	15	35	50
3	PC	BP 508P	Pharmacognosy and Phytochemistry II – Practical	-	-	4	2	10	5	15	35	50
<b>Total</b>				<b>15</b>	<b>5</b>	<b>12</b>	<b>26</b>					<b>650</b>
<b>Total Work Load=32 Hrs.</b>							<b>Total Credit 26</b>					

**Legend:**

L	Lecture	ESE	End Semester Examination
T	Tutorial	PC	Program Core Courses
P	Practical	FC	Foundation Courses
CT	Class Test	HS	Humanities and social science
TA	Teacher's Assessment	MC	Mandatory Course

**SEMESTER- VI (B. Pharmacy)**

S. N.		Paper Code	Subject	L	T	P/D	Credits	Evaluation Scheme				
								Internal Assessment			ESE	Subject Total
								CT	TA	Total		
<b>Theory:</b>												
1	PC	BP 601T	Medicinal Chemistry III – Theory	3	1	-	4	15	10	25	75	100
2	PC	BP 602T	Pharmacology III – Theory	3	1	-	4	15	10	25	75	100
3	PC	BP 603T	Herbal Drug Technology – Theory	3	1	-	4	15	10	25	75	100
4	PC	BP 604T	Biopharmaceutics and Pharmacokinetics – Theory	3	1	-	4	15	10	25	75	100
5	PC	BP 605T	Pharmaceutical Biotechnology – Theory	3	1	-	4	15	10	25	75	100
6	PC	BP 606T	Quality Assurance – Theory	3	1	-	4	15	10	25	75	100
<b>Labs:</b>												
1	PC	BP 607P	Medicinal chemistry III – Practical	-	-	4	2	10	5	15	35	50
2	PC	BP 608P	Pharmacology III – Practical	-	-	4	2	10	5	15	35	50
3	PC	BP 609P	Herbal Drug Technology – Practical	-	-	4	2	10	5	15	35	50
<b>Total</b>				<b>18</b>	<b>6</b>	<b>12</b>	<b>30</b>					<b>750</b>
<b>Total Work Load=36 Hrs.</b>							<b>Total Credit 30</b>					

**Note**

**Legend:**

L	Lecture	ESE	End Semester Examination
T	Tutorial	PC	Program Core Courses
P	Practical	FC	Foundation Courses
CT	Class Test	HS	Humanities and social science
TA	Teacher's Assessment	MC	Mandatory Course

**SEMESTER- VII (B. Pharmacy)**

S. N.	Category	Paper Code	Subject	L	T	P/D	Credits	Evaluation Scheme				
								Internal Assessment			ESE	Subject Total
								CT	TA	Total		
<b>Theory:</b>												
1	PC	BP 701T	Instrumental Methods of Analysis – Theory	3	1	-	4	15	10	25	75	100
2	PC	BP 702T	Industrial PharmacyII – Theory	3	1	-	4	15	10	25	75	100
3	PC	BP 703T	Pharmacy Practice – Theory	3	1	-	4	15	10	25	75	100
4	PC	BP704 T	Novel Drug Delivery System – Theory	3	1	-	4	15	10	25	75	100
<b>Labs:</b>												
1	PC	BP 705P	Instrumental Methods of Analysis – Practical			4	2	10	5	15	35	50
2	PC	BP 706P	Practice School*			12	6	20	30	50	50	100
<b>Total</b>				<b>12</b>	<b>4</b>	<b>16</b>	<b>24</b>					<b>600</b>
<b>Total Work Load=32 Hrs.</b>							<b>Total Credit 24</b>					

\* Non University Examination (NUE)



**SEMESTER- VIII (B. Pharmacy)**

S. N.	Category	Paper Code	Subject	L	T	P/D	Credits	Evaluation Scheme				
								Internal Assessment			ESE	Subject Total
								CT	TA	Total		
<b>Theory:</b>												
1	PC	BP 801T	Biostatistics and Research Methodology	3	1	-	4	15	10	25	75	100
2	PC	BP 802T	Social and Preventive Pharmacy	3	1	-	4	15	10	25	75	100
3	PC	BP 803ET	Pharma Marketing Management	3 +3 =6	1 + 1 =2	-	4+4=8	15	10	25	75	100
4	PC	BP 804ET	Pharmaceutical Regulatory Science					15	10	25	75	100
5	PC	BP 805ET	Pharmacovigilance					15	10	25	75	100
6	PC	BP 806ET	Quality Control and Standardization of Herbals					15	10	25	75	100
7	PC	BP 807ET	Computer Aided Drug Design					15	10	25	75	100
8	PC	BP 808ET	Cell and Molecular Biology					15	10	25	75	100
9	PC	BP 809ET	Cosmetic Science					15	10	25	75	100
10	PC	BP 810ET	Experimental Pharmacology					15	10	25	75	100
11	PC	BP 811ET	Advanced Instrumentation Techniques					15	10	25	75	100
12	PC	BP 812ET	Dietary Supplements and Nutraceuticals					15	10	25	75	100
Labs:												
1	PC	BP 813 PW	Project Work	-	-	12	6	-	-	-	150	150
<b>Total</b>				<b>12</b>	<b>4</b>	<b>12</b>	<b>22</b>					<b>550</b>
<b>Total Work Load=28</b>							<b>Total Credit 22</b>					

**Legend:**

L	Lecture	ESE	End Semester Examination
T	Tutorial	PC	Program Core Courses
P	Practical	FC	Foundation Courses

CT	Class Test	HS	Humanities and social science
TA	Teacher's Assessment	MC	Mandatory Course

### SEMESTER WISE CREDIT DISTRIBUTION

Semester	Credit Points
I	27/29 <sup>§</sup> /30 <sup>#</sup>
II	29
III	26
IV	28
V	26
VI	26
VII	24
VIII	22
Extracurricular/ Co curricular activities	01*
<b>Total credit points for the program</b>	<b>209/211<sup>§</sup>/212<sup>#</sup></b>

\* The credit points assigned for extracurricular and or co-curricular activities shall be given by the Principals of the colleges and the same shall be submitted to the University. The criteria to acquire this credit point shall be defined by the colleges from time to time.

<sup>§</sup>Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics course.

<sup>#</sup>Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology course.