

**SCHOOL OF HEALTH SCIENCES**  
**COLLEGE OF PHARMACEUTICAL SCIENCES**  
**PROGRAMME: BACHELOR OF PHARMACY (B. PHARM) – 2017-18**  
**SCHEME OF COURSE OF STUDY & ASSESSMENTS**

**SEMESTER I**

SL.	COURSE CODE	COURSE TITLE	L	T	P	C	IA			SEE		TM
							CMM	SE		M	D	
								M	D			
1	17BP101	HUMAN ANATOMYAND PHYSIOLOGY I- THEORY	3	1	-	4	10	15	1	75	3	100
2	17BP102	PHARMACEUTICAL ANALYSIS- THEORY	3	1	-	4	10	15	1	75	3	100
3	17BP103	PHARMACEUTICS I-THEORY	3	1	-	4	10	15	1	75	3	100
4	17BP104	PHARMACEUTICAL INORGANIC CHEMISTRY- THEORY	3	1	-	4	10	15	1	75	3	100
5	17BP105	COMMUNICATION SKILLS-THEORY*	2	-	-	2	5	10	1	35	1.5	50
6	17BP106B	REMEDIAL BIOLOGY-THEORY*	2	-	-	2	5	10	1	35	1.5	50
7	17BP106M	REMEDIAL MATHEMATICS-THEORY*	2	-	-	2	5	10	1	35	1.5	50
8	17BP107	HUMAN ANATOMYAND PHYSIOLOGY I – PRACTICAL	-	-	4	2	5	10	4	35	4	50
9	17BP108	PHARMACEUTICAL ANALYSIS – PRACTICAL	-	-	4	2	5	10	4	35	4	50
10	17BP109	PHARMACEUTICS I- PRACTICAL	-	-	4	2	5	10	4	35	4	50
11	17BP110	PHARMACEUTICAL INORGANIC CHEMISTRY-PRACTICAL	-	-	4	2	5	10	4	35	4	50
12	17BP111	COMMUNICATION SKILLS-PRACTICAL*	-	-	2	1	5	5	2	15	2	25
13	17BP112B	REMEDIAL BIOLOGY- PRACTICAL*	-	-	2	1	5	5	2	15	2	25
TOTAL						27	70	115	23	490	31.5	675
Applicable ONLY for the students studied Physics/Chemistry/Botany/ Zoology at HSC and appearing for Remedial Mathematics(RM) course.			34 HRS			29	75	125	24	525	33	725
Applicable ONLY for the students studied Mathematics/Physics/Chemistry at HSC and appearing for Remedial Biology(RB)course.			36 HRS			30	80	130	26	540	35	750

**L: Lecture , T:Tutorial , P:Practical , C:Credits, D : Duration in Hours**

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**SEMESTER II**

SL.	COURSE CODE	COURSE TITLE	L	T	P	C	IA			SEE		TM
							C M M	SE		M	D	
								M	D			
1	17BP201	HUMAN ANATOMYAND PHYSIOLOGY II- THEORY	3	1	-	4	10	15	1	75	3	100
2	17BP202	PHARMACEUTICAL ORGANIC CHEMISTRY I- THEORY	3	1	-	4	10	15	1	75	3	100
3	17BP203	BIOCHEMISTRY- THEORY	3	1	-	4	10	15	1	75	3	100
4	17BP204	PATHOPHYSIOLOGY- THEORY	3	1	-	4	10	15	1	75	3	100
5	17BP205	COMPUTER APPLICATIONS IN PHARMACY- THEORY*	3	-	-	3	10	15	1	50	2	75
6	17BP206	ENVIRONMENTAL SCIENCES- THEORY*	3	-	-	3	10	15	1	50	2	75
7	17BP207	HUMAN ANATOMYAND PHYSIOLOGY II -PRACTICAL	-	-	4	2	5	10	4	35	4	50
8	17BP208	PHARMACEUTICAL ORGANIC CHEMISTRY I – PRACTICAL	-	-	4	2	5	10	4	35	4	50
9	17BP209	BIOCHEMISTRY- PRACTICAL	-	-	4	2	5	10	4	35	4	50
10	17BP210	COMPUTER APPLICATIONS IN PHARMACY- PRACTICAL*	-	-	2	1	5	5	2	15	2	25
<b>TOTAL</b>			<b>18</b>	<b>4</b>	<b>14</b>	<b>29</b>	<b>80</b>	<b>125</b>	<b>20</b>	<b>520</b>	<b>30</b>	<b>725</b>

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**SEMESTER III**

SL.	COURSE CODE	COURSE TITLE	L	T	P	C	IA			SEE		TM
							C M M	SE		M	D	
								M	D			
1	17BP301	PHARMACEUTICAL ORGANIC CHEMISTRY II- THEORY	3	1	-	4	10	15	1	75	3	100
2	17BP302	PHYSICAL PHARMACEUTICS I - THEORY	3	1	-	4	10	15	1	75	3	100
3	17BP303	PHARMACEUTICAL MICROBIOLOGY- THEORY	3	1	-	4	10	15	1	75	3	100
4	17BP304	PHARMACEUTICAL ENGINEERING - THEORY	3	1	-	4	10	15	1	75	3	100
5	17BP305	PHARMACEUTICAL ORGANIC CHEMISTRY II - PRACTICAL	-	-	4	2	5	10	4	35	4	50
6	17BP306	PHYSICAL PHARMACEUTICS I- PRACTICAL	-	-	4	2	5	10	4	35	4	50
7	17BP307	PHARMACEUTICAL MICROBIOLOGY- PRACTICAL	-	-	4	2	5	10	4	35	4	50
8	17BP308	PHARMACEUTICAL ENGINEERING -PRACTICAL	-	-	4	2	5	10	4	35	4	50
<b>TOTAL</b>			<b>12</b>	<b>4</b>	<b>16</b>	<b>24</b>	<b>60</b>	<b>100</b>	<b>20</b>	<b>440</b>	<b>28</b>	<b>600</b>

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**SEMESTER IV**

SL.	COURSE CODE	COURSE TITLE	L	T	P	C	IA			SEE		TM
							C M M	SE		M	D	
								M	D			
1	17BP401	PHARMACEUTICAL ORGANIC CHEMISTRY III-THEORY	3	1	-	4	10	15	1	75	3	100
2	17BP402	MEDICINAL CHEMISTRY I-THEORY	3	1	-	4	10	15	1	75	3	100
3	17BP403	PHYSICAL PHARMACEUTICS II- THEORY	3	1	-	4	10	15	1	75	3	100
4	17BP404	PHARMACOLOGYI- THEORY	3	1	-	4	10	15	1	75	3	100
5	17BP405	PHARMACOGNOSY AND PHYTOCHEMISTRY I- THEORY	3	1	-	4	10	15	1	75	3	100
6	17BP406	MEDICINAL CHEMISTRY I-PRACTICAL	-	-	4	2	5	10	4	35	4	50
7	17BP407	PHYSICAL PHARMACEUTICS II- PRACTICAL	-	-	4	2	5	10	4	35	4	50
8	17BP408	PHARMACOLOGY I- PRACTICAL	-	-	4	2	5	10	4	35	4	50
9	17BP409	PHARMACOGNOSY AND PHYTOCHEMISTRY I- PRACTICAL	-	-	4	2	5	10	4	35	4	50
<b>TOTAL</b>			<b>15</b>	<b>5</b>	<b>16</b>	<b>28</b>	<b>70</b>	<b>115</b>	<b>21</b>	<b>515</b>	<b>31</b>	<b>700</b>

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**SEMESTER V**

SL.	COURSE CODE	COURSE TITLE	L	T	P	C	IA			SEE		TM
							C M M	SE		M	D	
								M	D			
1	17BP501	MEDICINAL CHEMISTRY II –THEORY	3	1	-	4	10	15	1	5	3	100
2	17BP502	FORMULATIVE PHARMACY–THEORY	3	1	-	4	10	15	1	75	3	100
3	17BP503	PHARMACOLOGY II- THEORY	3	1	-	4	10	15	1	75	3	100
4	17BP504	PHARMACOGNOSY AND PHYTOCHEMISTRY II- THEORY	3	1	-	4	10	15	1	75	3	100
5	17BP505	PHARMACEUTICAL JURISPRUDENCE – THEORY	3	1	-	4	10	15	1	75	3	100
6	17BP506	FORMULATIVE PHARMACY–PRACTICAL	-	-	4	2	5	10	4	35	4	50
7	17BP507	PHARMACOLOGY II- PRACTICAL	-	-	4	2	5	10	4	35	4	50
8	17BP508	PHARMACOGNOSY AND PHYTOCHEMISTRY II–PRACTICAL	-	-	4	2	5	10	4	35	4	50
<b>TOTAL</b>			<b>15</b>	<b>5</b>	<b>12</b>	<b>26</b>	<b>65</b>	<b>105</b>	<b>17</b>	<b>480</b>	<b>27</b>	<b>650</b>

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**SEMESTER VI**

S L.	COURSE CODE	COURSE TITLE	L	T	P	C	IA			SEE		TM
							C M M	SE		M	D	
								M	D			
1	17BP601	MEDICINAL CHEMISTRY III – THEORY	3	1	-	4	10	15	1	75	3	100
2	17BP602	PHARMACOLOGY III- THEORY	3	1	-	4	10	15	1	75	3	100
3	17BP603	HERBAL DRUGTECHNOLOGY- THEORY	3	1	-	4	10	15	1	75	3	100
4	17BP604	BIOPHARMACEUTICS AND PHARMACOKINETICS –THEORY	3	1	-	4	10	15	1	75	3	100
5	17BP605	PHARMACEUTICAL BIOTECHNOLOGY- THEORY	3	1	-	4	10	15	1	75	3	100
6	17BP606	QUALITYASSURANCE –THEORY	3	1	-	4	10	15	1	75	3	100
7	17BP607	MEDICINAL CHEMISTRY III- PRACTICAL	-	-	4	2	5	10	4	35	4	50
8	17BP608	PHARMACOLOGY III – PRACTICAL	-	-	4	2	5	10	4	35	4	50
9	17BP609	HERBAL DRUGTECHNOLOGY- PRACTICAL	-	-	4	2	5	10	4	35	4	50
<b>TOTAL</b>			<b>18</b>	<b>6</b>	<b>12</b>	<b>30</b>	<b>75</b>	<b>120</b>	<b>18</b>	<b>555</b>	<b>30</b>	<b>750</b>

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S L.	COURSE CODE	COURSE TITLE	L	T	P	C	IA		SEE		TM	
							C M M	SE		M		D
								M	D			
1	17BP701	INSTRUMENTAL METHODS OF ANALYSIS – THEORY	3	1	-	4	10	15	1	75	3	100
2	17BP702	INDUSTRIAL PHARMACY- THEORY	3	1	-	4	10	15	1	75	3	100
3	17BP703	PHARMACY PRACTICE – THEORY	3	1	-	4	10	15	1	75	3	100
4	17BP704	NOVEL DRUG DELIVERY SYSTEM- THEORY	3	1	-	4	10	15	1	75	3	100
5	17BP705	INSTRUMENTAL METHODS OF ANALYSIS – PRACTICAL	-	-	4	2	5	10	4	35	4	50
6	17BP706	PRACTICE SCHOOL*	-	-	12	6	25	-	-	125	5	150
<b>TOTAL</b>			<b>12</b>	<b>4</b>	<b>16</b>	<b>24</b>	<b>70</b>	<b>70</b>	<b>8</b>	<b>460</b>	<b>21</b>	<b>600</b>

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**1. The subject experts at college level shall conduct examinations**

**2. Student has to undergo 150 hrs practical training in the following domains declared by the programme committee from time to time.**

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SL.	COURSE CODE	COURSE TITLE	L	T	P	C	IA			SEE		TM
							C M M	SE		M	D	
								M	D			
1	17BP801	BIOSTATISTICS AND RESEARCH METHODOLOGY	3	1	-	4	10	15	1	75	3	100
2	17BP802	SOCIAL AND PREVENTIVE PHARMACY	3	1	-	4	10	15	1	75	3	100
3	17BP803	PHARMACEUTICAL MARKETING	3	1	-	4	10	15	1	75	3	100
4	17BP804	PHARMACEUTICAL REGULATORY SCIENCE										
5	17BP805	PHARMACOVIGILANCE										
6	17BP806	QUALITY CONTROL AND STANDARDIZATIONS OF HERBALS										
7	17BP807	COMPUTER AIDED DRUG DESIGN										
8	17BP808	CELL AND MOLECULAR BIOLOGY	6	2		8	20	30	4	150	6	200
9	17BP809	COSMETIC SCIENCE										
10	17BP810	EXPERIMENTAL PHARMACOLOGY										
11	17BP811	ADVANCED INSTRUMENTATION TECHNIQUES										
12	17BP812	DIETARY SUPPLEMENTS AND NEUTRACEUTICALS										
13	17BP813	PROJECT WORK **	12	-	-	6	-	-	-	150	4	150
<b>TOTAL</b>			<b>24</b>	<b>4</b>	<b>00</b>	<b>22</b>	<b>40</b>	<b>60</b>	<b>6</b>	<b>450</b>	<b>16</b>	<b>550</b>

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**\*\* The project work of the student should be related to choice of one of the elective subjects**

**One credit point assigned for extracurricular and co-curricular activities shall be given by the Dean of the college and the same shall be submitted to the University.**



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**SCHEME FOR AWARDING INTERNAL ASSESSMENT: CONTINUOUS MODE**

<b>THEORY</b>		
<b>CRITERIA</b>	<b>MAXIMUM MARKS</b>	
ATTENDANCE(REFER TABLE- BELOW)	4	2
ACADEMIC ACTIVITIES(AVERAGE OF ANY 3 ACTIVITIES E.G. QUIZ, ASSIGNMENT, OPEN BOOK TEST, FIELD WORK, GROUP DISCUSSION AND SEMINAR)	3	1.5
STUDENT – TEACHER INTERACTION	3	1.5
<b>TOTAL</b>	<b>10</b>	<b>5</b>
<b>PRACTICAL</b>		
ATTENDANCE(REFER TABLE- BELOW)	<b>2</b>	
BASED ON PRACTICAL RECORDS, REGULAR VIVA VOCE, ETC.	<b>3</b>	
<b>TOTAL</b>	<b>5</b>	

**GUIDELINES FOR THE ALLOTMENT OF MARKS FOR ATTENDANCE**

<b>PERCENTAGE OF</b>	<b>THEORY</b>	<b>PRACTICAL</b>
95 -100	4	2
90 -94	3	1.5
85 -89	2	1
80 -84	1	0.5
LESS THAN 80	0	0

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**QUESTION PAPER PATTERN**

**FOR THEORY END SEMESTER EXAMINATIONS (SEE)**

**I . For courses of 75 Marks**

- |       |                          |                        |           |
|-------|--------------------------|------------------------|-----------|
| (i)   | Objective Type Questions | (Answer all questions) | : 10x2=20 |
| (ii)  | Long Answers Questions   | ( Answer 2 out of 3)   | : 2x10=20 |
| (iii) | Short Answers Questions  | ( Answer 7 out of 9)   | : 7x5=35  |

**II . For courses of 50 Marks**

- |      |                         |                      |           |
|------|-------------------------|----------------------|-----------|
| (i)  | Long Answers Questions  | ( Answer 2 out of 3) | : 2x10=20 |
| (ii) | Short Answers Questions | ( Answer 6 out of 8) | : 6x5=30  |

**III . For courses of 35 Marks**

- |      |                         |                      |           |
|------|-------------------------|----------------------|-----------|
| (i)  | Long Answers Questions  | ( Answer 1 out of 2) | : 1x10=10 |
| (ii) | Short Answers Questions | ( Answer 5 out of 7) | : 5x5=25  |

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**QUESTION PAPER PATTERN**

**FOR PRACTICAL END SEMESTER EXAMINATIONS (SEE)**

**Total 35 Marks**

- |       |             |   |          |
|-------|-------------|---|----------|
| (i)   | Synopsis    | = | 05 Marks |
| (ii)  | Experiments | = | 25 Marks |
| (iii) | Viva Voce   | = | 05 Marks |

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**EVALUATION SCHEME FOR PROJECT WORK (150 MARKS)**

**EVALUATION OF DISSERTATION BOOK: (TOTAL 75 MARKS)**

Objective(s) of the work done	15 Marks
Methodology adopted	20 Marks
Results and Discussions	20 Marks
Conclusions and Outcomes	20 Marks

**EVALUATION OF PRESENTATION: (TOTAL 75 MARKS)**

Presentation of work	25 Marks
Communication skills	20 Marks
Question and answer skills	30 Marks