Bachelor of Pharmacy (Undergraduate)



Annexure I

SEMESTER	CREDIT POINTS
Ι	27/29\$/30#
Π	25
III	28
IV	28
V	26
VI	26
VII	28
VIII	22
Extracurricular/ Co-curricular activities	01*
Total credit points for the program	211/213\$/214#

Table I: Semester wise credits distribution

Note:

* 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.

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

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

Bachelor of Pharmacy (Undergraduate)



Annexure-II

The course of study for B. Pharm shall include Semester Wise Theory, Tutorial & Practical. The number of hours devoted to each theory, tutorial and practical course in any semester shall not be less than that shown in Table - I to VIII.

Course	Name of the Course	No. of hours		Credit
Code	Name of the Course			Points
		Theory/ Practical	Tutorial	
BP101T	Human Anatomy and Physiology-I (Theory)	3	1	4
BP102T	Pharmaceutical Analysis I (Theory)	3	1	4
BP103T	Pharmaceutics-I (Theory)	3	1	4
BP104T	Pharmaceutical Inorganic Chemistry (Theory)	3	1	4
BP105T	Communication Skills (Theory)*	2	-	2
BP106RBT	Remedial Biology (Theory)#*	2	-	2
BP106RMT	Remedial Mathematics (Theory) ^{\$} *	2	-	2
BP101P	Human Anatomy and Physiology-I (Practical)	4	-	2
BP102P	Pharmaceutical Analysis I (Practical)	4	-	2
BP103P	Pharmaceutics-I (Practical)	4	-	2
BP104P	Pharmaceutical Inorganic Chemistry (Practical)	4	-	2
BP105P	Communication Skills (Practical)*	2	-	1
BP106RBP	Remedial Biology (Practical) #*	2	-	1
	Total	32/34 ^{\$} /36 #	4	27/29\$/30#

Table I: Course of Study for B. Pharm Semester I

Note:

* Non-University Examination (NUE)

#Applicable ONLY for the students who have studied Physics / Chemistry/ Mathematics 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.

Bachelor of Pharmacy (Undergraduate)



Course Code	Name of the Course	No. of hours		Credit Points
		Theory/ Practical	Tutorial	
BP201T	Human Anatomy and physiology-II (Theory)	3	1	4
BP202T	Pharmaceutical Organic Chemistry-I (Theory)	3	1	4
BP203T	Pharmaceutical Engineering (Theory)	3	1	4
BP204T	Computer Applications in Pharmacy Theory)*	3	-	3
BP205T	Environmental Sciences (Theory)*	3	-	3
BP201P	Human Anatomy and Physiology-II (Practical)	4	-	2
BP202P	Pharmaceutical Organic Chemistry-I (Practical)	4	-	2
BP203P	Pharmaceutical Engineering (Practical)	4	-	2
BP204P	Computer Applications in Pharmacy (Practical)*	2	-	1
	Total	29	3	25

Table II: Course of Study for B. Pharm Semester II

*Non-University Examination (NUE)

Table III: Course of Study for B. Pharm Semester III

Course Code	Name of the Course	No. of hours		Credit Points
		Theory/ Practical	Tutorial	
BP301T	Pharmaceutical Organic Chemistry-II (Theory)	3	1	4
BP302T	Biochemistry (Theory)	3	1	4
BP303T	Physical Pharmaceutics-I (Theory)	3	1	4
BP304T	Pharmaceutical Microbiology (Theory)	3	1	4
BP305T	Pathophysiology (Theory)	3	1	4
BP301P	Pharmaceutical Organic Chemistry-II (Practical)	4	-	2
BP302P	Biochemistry (Practical)	4	-	2
BP303P	Physical Pharmaceutics-I (Practical)	4	-	2
BP304P	Pharmaceutical Microbiology (Practical)	4	-	2
	Total	31	5	28

Bachelor of Pharmacy (Undergraduate)



Course Code	Name of the Course	No. of hours		Credit Points
		Theory/ Practical	Tutorial	
BP401T	Pharmaceutical Organic Chemistry-III (Theory)	3	1	4
BP402T	Medicinal Chemistry-I (Theory)	3	1	4
BP403T	Physical Pharmaceutics-II (Theory)	3	1	4
BP404T	Pharmacology-I (Theory)	3	1	4
BP405T	Pharmacognosy & Phytochemistry-I (Theory)	3	1	4
BP402P	Medicinal Chemistry-I (Practical)	4	-	2
BP403P	Physical Pharmaceutics-II (Practical)	4	-	2
BP404P	Pharmacology-I (Practical)	4	-	2
BP405P	Pharmacognosy & Phytochemistry-I (Practical)	4	-	2
	Total	31	5	28

Table IV: Course of Study for B. Pharm Semester IV

Table V: Course of Study for B. Pharm Semester V

Course Code	Name of the Course	No. of	No. of hours	
		Theory/ Practical	Tutorial	
BP501T	Medicinal Chemistry-II (Theory)	3	1	4
BP502T	Industrial Pharmacy-I (Theory)	3	1	4
BP503T	Pharmacology-II (Theory)	3	1	4
BP504T	Pharmacognosy and Phytochemistry-II (Theory)	3	1	4
BP505T	Pharmaceutical Jurisprudence (Theory)	3	1	4
BP502P	Industrial Pharmacy-I (Practical)	4	-	2
BP503P	Pharmacology-II (Practical)	4	-	2
BP504P	Pharmacognosy and Phytochemistry-II (Practical)	4	-	2
	Total	27	5	26

Bachelor of Pharmacy (Undergraduate)



Course Code	Name of the Course	No. of hours		Credit Points
		Theory/ Practical	Tutorial	
BP601T	Medicinal Chemistry-III (Theory)	3	1	4
BP602T	Pharmacology-III (Theory)	3	1	4
BP603T	Herbal Drug Technology (Theory)	3	1	4
BP604T	Industrial Pharmacy-II (Theory)	3	1	4
BP605T	Pharmaceutical Biotechnology (Theory)	3	1	4
BP601P	Medicinal Chemistry-III (Practical)	4	-	2
BP602P	Pharmacology-III (Practical)	4	-	2
BP603P	Herbal Drug Technology (Practical)	4	-	2
	Total	27	5	26

Table VI: Course of Study for B. Pharm Semester VI

Table VII: Course of Study for B. Pharm Semester VII

Course Code	Name of the Course	No. of hours		Credit Points
		Theory/ Practical	Tutorial	
BP701T	Instrumental Method of Analysis (Theory)	3	1	4
BP702T	Biopharmaceutics and Pharmacokinetics(Theory)	3	1	4
BP703T	Novel Drug Delivery System (Theory)	3	1	4
BP704T	Pharmacy Practice (Theory)	3	1	4
BP705P	Practice School*	12	-	6
BP706T	Quality Assurance (Theory)	3	1	4
BP701P	Instrumental Method of Analysis (Practical)	4	-	2
	Total	28	4	24

* Non-University Examination (NUE)

Bachelor of Pharmacy (Undergraduate)



Table VIII: Course of Study for B. Pharm Semester VIII

Course Code	Name of the course	No. ofhours		Credit Points
		Theory/ Practical	Tutorial	
BP801T	Biostatistics and Research Methodology (Theory)	3	1	4
BP802T	Social and Preventive Pharmacy (Theory)	3	1	4
BP803T	Pharma Marketing Management (Theory)			
BP804T	Pharmaceutical Regulatory Science (Theory)			
BP805T	Pharmacovigilance (Theory)			
BP806T	Quality Control and Standardization of Herbals (Theory)			
BP807T	Computer Aided Drug Design (Theory)	(Any two		
BP808T	Cell and Molecular Biology (Theory)	courses)	1+1=2	4+4=8
BP809T	Cosmetic Science (Theory)	3+3=6		
BP810T	Experimental Pharmacology (Theory)			
BP811T	Advanced Instrumentation Techniques (Theory)			
BP812T	Dietary Supplements and Nutraceuticals (Theory)			
BP813T	Pharmaceutical Product Development (Theory)			
BP814P	Project Work (Practical)	12		6
	Total	24	4	22

Bachelor of Pharmacy (Undergraduate)



Annexure-III

The assessment and evaluation of student's performance for B. Pharm shall include Semester Wise Internal assessment as well as End semester examination for both theory and practical (If applicable). The Internal assessment will be through Sessional exams and Continuous Mode of evaluation.

The scheme for internal assessment and end semester examinations for B. Pharm program is given in Table I to VIII.

			Marks Dis	stribution	
Course		University	Ins	titute	
Code	Name of the Course	(End Semester Exam)	Sessional Exams	Continuous Mode	Total
BP101T	Human Anatomy and Physiology-I (Theory)	75	15	10	100
BP102T	Pharmaceutical Analysis I (Theory)	75	15	10	100
BP103T	Pharmaceutics-I (Theory)	75	15	10	100
BP104T	Pharmaceutical Inorganic Chemistry (Theory)	75	15	10	100
BP105T	Communication Skills (Theory)*	35	10	5	50
BP106RBT BP106RMT	Remedial Biology (Theory)/ Remedial Mathematics (Theory)*	35	10	5	50
BP101P	Human Anatomy and Physiology-I (Practical)	35	10	5	50
BP102P	Pharmaceutical Analysis I (Practical)	35	10	5	50
BP103P	Pharmaceutics-I (Practical)	35	10	5	50
BP104P	Pharmaceutical Inorganic Chemistry (Practical)	35	10	5	50
BP105P	Communication Skills (Practical)*	15	5	5	25
BP106RBP	Remedial Biology (Practical)*	15	5	5	25
	Total	490/525 ^{\$} /5 40 [#]	115/125 ^{\$} /1 30 [#]	70/75 ^{\$} /80 [#]	675/725 ^{\$} / 750 [#]

Table I: Assessment scheme for B. Pharm semester I

Note:

*Non-University Examination (NUE)

#Applicable ONLY for the students who have studied Physics / Chemistry/ Mathematics 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.

Bachelor of Pharmacy (Undergraduate)



		Marks Distribution			
Course		University	Ins		
Code	Name of the Course	(End Semester Exam)	Sessional Exams	Continuous Mode	Total
BP201T	Human Anatomy and physiology-II (Theory)	75	15	10	100
BP202T	Pharmaceutical Organic Chemistry-I (Theory)	75	15	10	100
BP203T	Pharmaceutical Engineering (Theory)	75	15	10	100
BP204T	Computer Applications in Pharmacy (Theory)*	50	15	10	75
BP205T	Environmental Sciences (Theory)*	50	15	10	75
BP201P	Human Anatomy and Physiology-II (Practical)	35	10	5	50
BP202P	Pharmaceutical Organic Chemistry-I (Practical)	35	10	5	50
BP203P	Pharmaceutical Engineering (Practical)	35	10	5	50
BP204P	Computer Applications in Pharmacy (Practical)*	15	5	5	25
	Total	445	110	70	625

Table II: Assessment scheme for B. Pharm semester II

Note: *Non-University Examination (NUE)

Table III: Assessment scheme for B. Pharm semester III

			Marks Di	stribution	
Course		University	Institute		
Code	Name of the Course	(End Semester Exam)	Sessional Exams	Continuous Mode	Total
BP301T	Pharmaceutical Organic Chemistry-II (Theory)	75	15	10	100
BP302T	Biochemistry (Theory)	75	15	10	100
BP303T	Physical Pharmaceutics-I (Theory)	75	15	10	100
BP304T	Pharmaceutical Microbiology (Theory)	75	15	10	100
BP305T	Pathophysiology (Theory)	75	15	10	100
BP301P	Pharmaceutical Organic Chemistry-II (Practical)	35	10	5	50
BP302P	Biochemistry (Practical)	35	10	5	50
BP303P	Physical Pharmaceutics-I (Practical)	35	10	5	50
BP304P	Pharmaceutical Microbiology (Practical)	35	10	5	50
	Total	515	115	70	700

Bachelor of Pharmacy (Undergraduate)



	Name of the Course	Marks Distribution					
Course Code		University	Inst	Total			
	Name of the Course	(End Semester	Sessional	Continuous			
		Exam)	Exams	Mode			
BP401T	Pharmaceutical Organic Chemistry-III	75	15	10	100		
	(Theory)						
BP402T	Medicinal Chemistry-I (Theory)	75	15	10	100		
BP403T	Physical Pharmaceutics-II (Theory)	75	15	10	100		
BP404T	Pharmacology-I (Theory)	75	15	10	100		
BP405T	Pharmacognosy & Phytochemistry-I	75 try-I 75	75	75	15	10	100
DI 403 I	(Theory)		15	10	100		
BP402P	Medicinal Chemistry-I (Practical)	35	10	5	50		
BP403P	Physical Pharmaceutics-II (Practical)	35	10	5	50		
BP404P	Pharmacology-I (Practical)	35	10	5	50		
BP405P	Pharmacognosy & Phytochemistry-I	35	10	5	50		
	(Practical)	33	10	5	50		
	Total		115	70	700		

Table IV: Assessment scheme for B. Pharm semester IV

Table V: Assessment scheme for B. Pharm semester V

		1	Marks Di	stribution				
		University	In	stitute				
Course Code	Name of the Course	(End Semester Exam)	Sessional Exams	Continuous Mode	Total			
BP501T	Medicinal Chemistry-II (Theory)	75	15	10	100			
BP502T	Industrial Pharmacy-I (Theory)	75	15	10	100			
BP503T	Pharmacology-II (Theory)	75	15	10	100			
BP504T	Pharmacognosy and Phytochemistry-II (Theory)	75	15	10	100			
BP505T	Pharmaceutical Jurisprudence (Theory)	75	15	10	100			
BP502P	Industrial Pharmacy-I (Practical)	35	10	5	50			
BP503P	Pharmacology-II (Practical)	35	10	5	50			
BP504P	Pharmacognosy and Phytochemistry-II (Practical)	35	10	5	50			
	Total	480	105	65	650			

Bachelor of Pharmacy (Undergraduate)



Course Code		Marks Distribution		stribution	
		University	Ins		
	Name of the Course	(End Semester Exam)	Sessional Exams	Continuous Mode	Total
BP601T	Medicinal Chemistry-III (Theory)	75	15	10	100
BP602T	Pharmacology-III (Theory)	75	15	10	100
BP603T	Herbal Drug Technology (Theory)	75	15	10	100
BP604T	Industrial Pharmacy-II (Theory)	75	15	10	100
BP605T	Pharmaceutical Biotechnology (Theory)	75	15	10	100
BP601P	Medicinal Chemistry-III (Practical)	35	10	5	50
BP602P	Pharmacology-III (Practical)	35	10	5	50
BP603P	Herbal Drug Technology (Practical)	35	10	5	50
	Total	480	105	65	650

Table VI: Assessment scheme for B. Pharm semester VI

Table VII: Assessment scheme for B. Pharm semester VII

			Marks Dis	stribution	
Course		University	Institute		Total
Code	Name of the Course	(End Semester Exam)	Sessional Exams	Continuous Mode	
BP701T	Instrumental Method of Analysis	75	15	10	100
BP702T	Biopharmaceutics and Pharmacokinetics (Theory)	75	15	10	100
BP703T	Novel Drug Delivery System (Theory)	75	15	10	100
BP704T	Pharmacy Practice (Theory)	75	15	10	100
BP706T	Quality Assurance	75	15	10	100
BP701P	Instrumental Method of Analysis (Practical)	35	10	5	50
BP705P	Practice School*	125	-	25	150
Total 535		535	85	80	700

Bachelor of Pharmacy (Undergraduate)



Table VIII: Assessment scheme for B. Pharm semester VIII

Course Code		Marks Distribution					
		University	Institute		Tot al		
	Name of the Course	(End Semester Exam)	Sessional Exams	Continuo us Mode			
BP801T	Biostatistics and Research Methodology (Theory)	75	15	10	100		
BP802T	Social and Preventive Pharmacy (Theory)	75	15	10	100		
BP803T	Pharma Marketing Management (Theory)						
BP804T	Pharmaceutical Regulatory Science (Theory)						
BP805T	Pharmacovigilance (Theory)						
BP806T	Quality Control and Standardization of Herbals (Theory)						
BP807T	Computer Aided Drug Design (Theory)						
BP808T	Cell and Molecular Biology (Theory)						
BP809T	Cosmetic Science (Theory)	- (Any two courses with above mark distribution)					
BP810T	Experimental Pharmacology (Theory)						
BP811T	Advanced Instrumentation Techniques (Theory)	-					
BP812T	Dietary Supplements and Nutraceuticals (Theory)						
BP813T	Pharmaceutical Product Development (Theory)						
BP814P	Project Work	125	-	25	150		
	Total	425	60	65	550		