DEPARTMENT OF

PHARMACEUTICAL SCIENCES

VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be UNIVERSITY)
-Estd. u/s 3 of UGC Act 1956

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R18

ACADEMIC REGULATIONS, CURRICULUM
AND COURSE CONTENTS FOR

B.Pharmacy

FOUR YEAR DEGREE PROGRAMME
(AS PER PHARMACY COUNCIL OF INDIA)

Department of
PHARMACEUTICAL SCIENCES

Bachelor of Pharmacy

(Regulations & Syllabus for the Bachelor of Pharmacy (B. Pharm) Course)
(Pharmacy Council of India New Delhi)

R18

FACULTY OF PHARMACY

VIGNAN'S
Foundation for Science, Technology & Research
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-Estd. u/s 3 of UGC Act 1956

NAAC A+ Accredited

1. Short Title and Commencement

These regulations shall be called as "The Revised Regulations for the B. Pharm. Degree Program (CBCS) of the Pharmacy Council of India, New Delhi". They shall come into effect from the Academic Year 2016-17. The regulations framed are subject to modifications from time to time by Pharmacy Council of India.

2. Minimum qualification for admission

2.1 First year B. Pharm:

Candidate shall have passed 10+2 examination conducted by the respective state/central government authorities recognized as equivalent to 10+2 examination by the Association of Indian Universities (AIU) with English as one of the subjects and Physics, Chemistry, Mathematics (P.C.M) and or Biology (P.C.B / P.C.M.B.) as optional subjects individually. Any other qualification approved by the Pharmacy Council of India as equivalent to any of the above examinations.

2.2. B. Pharm lateral entry (to third semester):

A pass in D. Pharm. course from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act.

3. Duration of the program

The course of study for B.Pharmacy shall extend over a period of eight semesters (four academic years) and six semesters (three academic years) for lateral entry students. The curricula and syllabi for the program shall be prescribed from time to time by Pharmacy Council of India, New Delhi.

4. Medium of instruction and examinations

Medium of instruction and examination shall be in English.

5. Working days in each semester

Each semester shall consist of not less than 100 working days. The odd semesters shall be conducted from the month of June/July to November/December and the even semesters shall be conducted from December/January to May/June in every calendar year.

6. Attendance and progress

A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations

Program/Course credit structure

As per the philosophy of Credit Based Semester System, certain quantum of academic work viz. theory classes, tutorial hours, practical classes, etc. are measured in terms of credits. On satisfactory completion of the courses, a candidate earns credits. The amount of credit associated with a course is dependent upon the number of hours of instruction per week in that course. Similarly, the credit associated with any of the other academic, co/extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week.

6.1. Credit assignment

6.1.1. Theory and Laboratory courses

Courses are broadly classified as Theory and Practical. Theory courses consist of lecture (L) and /or tutorial (T) hours, and Practical (P) courses consist of hours spent in the laboratory. Credits (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and tutorial hours, and a multiplier of half (1/2) for practical (laboratory) hours. Thus, for example, a theory course having three lectures and one tutorial per week throughout the semester carries a credit of 4. Similarly, a practical having four laboratory hours per week throughout semester carries a credit of 2.

6.2. Minimum credit requirements

The minimum credit points required for award of a B. Pharm. degree is 208. These credits are divided into Theory courses, Tutorials, Practical, Practice School and Project over the duration of eight semesters. The credits are distributed semester-wise as shown in Table IX. Courses generally progress in sequences, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester-wise schedule of courses given in the syllabus.

The lateral entry students shall get 52 credit points transferred from their D. Pharm program. Such students shall take up additional remedial courses of ‘Communication Skills’ (Theory and Practical) and ‘Computer Applications in Pharmacy’ (Theory and Practical) equivalent to 3 and 4 credit points respectively, a total of 7 credit points to attain 59 credit points, the maximum of I and II semesters.

7. Academic work

A regular record of attendance both in Theory and Practical shall be maintained by the teaching staff of respective courses.

8. Course of study

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

9. Program Committee

1. The B. Pharm. program shall have a Program Committee constituted by the Head of the institution in consultation with all the Heads of the departments.

2. The composition of the Program Committee shall be as follows:
   A senior teacher shall be the Chairperson; One Teacher from each department handling B.Pharmacy courses; and four student representatives of the program (one from each academic year), nominated by the Head of the institution.

3. Duties of the Program Committee:

i. Periodically reviewing the progress of the classes.
ii. Discussing the problems concerning curriculum, syllabus and the conduct of classes.
iii. Discussing with the course teachers on the nature and scope of assessment for the course and the same shall be announced to the students at the beginning of respective semesters.
iv. Communicating its recommendation to the Head of the institution on academic matters.
v. The Program Committee shall meet at least thrice in a semester preferably at the end of each Sectional exam (Internal Assessment) and before the end semester exam.

10. Examinations/Assessments

The scheme for internal assessment and end semester examinations is given in Table – X.

10.1. End semester examinations

The End Semester Examinations for each theory and practical course through semesters I to VIII shall be conducted by the university except for the subjects with asterix symbol (*) in table I and II for which examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.

Table-I: Course of study for semester - I

Course code	Name of the course	No. of Hours	Tutorial	Credit Points
18BP001	Human Anatomy and Physiology I– Theory	3	1	4
18BP002	Pharmaceutical Analysis I – Theory	3	1	4
18BP003	Pharmaceutics I – Theory	3	1	4
18BP004	Pharmaceutical Inorganic Chemistry – Theory	3	1	4
18BP005	Communication skills – Theory *	2	-	2
18BP006 18BP007	Remedial Biology/ Remedial Mathematics – Theory*	2	-	2
18BP008	Human Anatomy and Physiology – Practical	4	-	2
18BP009	Pharmaceutical Analysis I – Practical	4	-	2
18BP010	Pharmaceutics I – Practical	4	-	2
18BP011	Pharmaceutical Inorganic Chemistry – Practical	4	-	2
18BP012	Communication skills – Practical*	2	-	1
18BP013	Remedial Biology – Practical*	2	-	1
	Total	**32/34$/36#**	**4**	**27/29$/30#**

#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)

Table-II: Course of study for semester - II

Course Code	Name of the course	No.of hours	Tutorial	Credit Points
18BP016	Human Anatomy and Physiology II – Theory	3	1	4
18BP017	Pharmaceutical Organic Chemistry I – Theory	3	1	4
18BP018	Biochemistry – Theory	3	1	4
18BP019	Pathophysiology – Theory	3	1	4
18BP020	Computer Applications in Pharmacy – Theory *	3	-	3
18BP021	Environmental sciences – Theory *	3	-	3
18BP022	Human Anatomy and Physiology II –Practical	4	-	2
18BP023	Pharmaceutical Organic Chemistry I– Practical	4	-	2
18BP024	Biochemistry – Practical	4	-	2
18BP025	Computer Applications in Pharmacy – Practical*	2	-	1
	Total	**32**	**4**	**29**

*Non University Examination (NUE)

Table-III: Course of study for semester - III

Course code	Name of the course	No.of hours	Tutorial	Credit Points
18BP031	Pharmaceutical Organic Chemistry II – Theory	3	1	4
18BP032	Physical Pharmaceutics I – Theory	3	1	4
18BP033	Pharmaceutical Microbiology – Theory	3	1	4
18BP034	Pharmaceutical Engineering – Theory	3	1	4
18BP035	Pharmaceutical Organic Chemistry II – Practical	4	-	2
18BP036	Physical Pharmaceutics I – Practical	4	-	2
18BP037	Pharmaceutical Microbiology – Practical	4	-	2
18BP038	Pharmaceutical Engineering –Practical	4	-	2
	Total	**28**	**4**	**24**

Table-IV: Course of study for semester - IV

Course code	Name of the course	No.of hours	Tutorial	Credit Points
18BP041	Pharmaceutical Organic Chemistry III– Theory	3	1	4
18BP042	Medicinal Chemistry I – Theory	3	1	4
18BP043	Physical Pharmaceutics II – Theory	3	1	4
18BP044	Pharmacology I – Theory	3	1	4
18BP045	Pharmacognosy and Phytochemistry I– Theory	3	1	4
18BP046	Medicinal Chemistry I – Practical	4	-	2
18BP047	Physical Pharmaceutics II – Practical	4		2
18BP048	Pharmacology I – Practical	4	-	2
18BP049	Pharmacognosy and Phytochemistry I – Practical	4	-	2
	Total	**31**	**5**	**28**

Table-V: Course of study for semester - V

Course code	Name of the course	No.of hours	Tutorial	Credit Points
18BP056	Medicinal Chemistry II – Theory	3	1	4
18BP057	Industrial PharmacyI– Theory	3	1	4
18BP058	Pharmacology II – Theory	3	1	4
18BP059	Pharmacognosy and Phytochemistry II– Theory	3	1	4
18BP060	Pharmaceutical Jurisprudence – Theory	3	1	4
18BP061	Industrial PharmacyI – Practical	4	-	2
18BP062	Pharmacology II – Practical	4	-	2
18BP063	Pharmacognosy and Phytochemistry II – Practical	4	-	2
Total		**27**	**5**	**26**

Table-VI: Course of study for semester VI

Course code	Name of the course	No.of hours	Tutorial	Credit points
18BP066	Medicinal Chemistry III – Theory	3	1	4
18BP067	Pharmacology III – Theory	3	1	4
18BP068	Herbal Drug Technology – Theory	3	1	4
18BP069	Biopharmaceutics and Pharmacokinetics – Theory	3	1	4
18BP070	Pharmaceutical Biotechnology – Theory	3	1	4
18BP071	Quality Assurance –Theory	3	1	4
18BP072	Medicinal chemistry III – Practical	4	-	2
18BP073	Pharmacology III – Practical	4	-	2
18BP074	Herbal Drug Technology – Practical	4	-	2
Total		**30**	**6**	**30**

Table-VII: Course of study for semester - VII

Course code	Name of the course	No.of hours	Tutorial	Credit points
18BP076	Instrumental Methods of Analysis – Theory	3	1	4
18BP077	Industrial PharmacyII – Theory	3	1	4
18BP078	Pharmacy Practice – Theory	3	1	4
18BP079	Novel Drug Delivery System – Theory	3	1	4
18BP080	Instrumental Methods of Analysis –Practical	4	-	2
18BP081	Practice School*	12	-	6
Total		**28**	**5**	**24**

***** Non University Examination (NUE)

Table-VIII: Course of study for semester - VIII

Course code	Name of the course	No.of hours	Tutorial	Credit points
18BP086	Biostatistics and Research Methodology	3	1	4
18BP087	Social and Preventive Pharmacy	3	1	4
18BP088	Pharma Marketing Management	3 + 3 = 6	1 + 1 = 2	4 + 4 = 8
18BP089	Pharmaceutical Regulatory Science			
18BP090	Pharmacovigilance			
18BP091	Quality Control and Standardization of Herbals			
18BP092	Computer Aided Drug Design			
18BP093	Cell and Molecular Biology			
18BP094	Cosmetic Science			
18BP095	Experimental Pharmacology			
18BP096	Advanced Instrumentation Techniques			
18BP097	Dietary Supplements and Nutraceuticals			
18BP098	Project Work	12	-	6
	Total	**24**	**4**	**22**

Table-IX: Semester wise credits distribution

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

* 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**.**

Tables-X: Schemes for internal assessments and end semester examinations semester wise

Semester I

Coursecode	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sectional Exams		Total	Marks	Duration	
			Marks	Duration				
18BP001	Human Anatomy and Physiology I– Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP002	Pharmaceutical Analysis I Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP003	Pharmaceutics I – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP004	Pharmaceutical Inorganic Chemistry – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP005	Communication skills – Theory *	5	10	1 Hr	15	35	1.5 Hrs	50
18BP006 18BP007	Remedial Biology/ Mathematics – Theory*	5	10	1 Hr	15	35	1.5 Hrs	50
18BP008	Human Anatomy and Physiology – Practical	5	10	4 Hrs	15	35	4 Hrs	50
18BP009	Pharmaceutical Analysis- I Practical	5	10	4 Hrs	15	35	4 Hrs	50
18BP010	Pharmaceutics I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
18BP011	Pharmaceutical Inorganic Chemistry – Practical	5	10	4 Hrs	15	35	4 Hrs	50
18BP012	Communication skills – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
18BP013	Remedial Biology – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
Total		**70/75$/80#**	**115/125$/130#**	**/24$/26#Hrs**	**185/200$/210#**	**490/525$/ 540#**	**31.5/33$/ 35# Hrs**	**675/725$/ 750#**

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

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

* Non University Examination (NUE)

Semester II

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sectional Exams		Total	Marks	Duration	
			Marks	Duration				
18BP016	Human Anatomy and Physiology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP017	Pharmaceutical Organic Chemistry I – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP018	Biochemistry – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP019	Pathophysiology – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP020	Computer Applications in Pharmacy – Theory*	10	15	1 Hr	25	50	2 Hrs	75
18BP021	Environmental sciences – Theory*	10	15	1 Hr	25	50	2 Hrs	75
18BP022	Human Anatomy and Physiology II –Practical	5	10	4 Hrs	15	35	4 Hrs	50
18BP023	Pharmaceutical Organic Chemistry I– Practical	5	10	4 Hrs	15	35	4 Hrs	50
18BP024	Biochemistry – Practical	5	10	4 Hrs	15	35	4 Hrs	50
18BP025	Computer Applications in Pharmacy – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
Total		**80**	**125**	**20 Hrs**	**205**	**520**	**30 Hrs**	**725**

***** The subject experts at college level shall conductexaminations

Semester III

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sectional Exams		Total	Marks	Duration	
			Marks	Duration				
18BP031	Pharmaceutical Organic Chemistry II – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP032	PhysicalPharmaceutics I –Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP033	Pharmaceutical Microbiology – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP034	Pharmaceutical Engineering – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP035	Pharmaceutical Organic Chemistry II – Practical	5	10	4 Hr	15	35	4 Hrs	50
18BP036	Physical Pharmaceutics I – Practical	5	10	4 Hr	15	35	4 Hrs	50
18BP037	Pharmaceutical Microbiology – Practical	5	10	4 Hr	15	35	4 Hrs	50
18BP038	Pharmaceutical Engineering – Practical	5	10	4 Hr	15	35	4 Hrs	50
Total		**60**	**100**	**20**	**160**	**440**	**28Hrs**	**600**

Semester IV

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sectional Exams		Total	Marks	Duration	
			Marks	Duration				
18BP041	Pharmaceutical Organic Chemistry III– Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP042	Medicinal Chemistry I – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP043	Physical Pharmaceutics II – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP044	Pharmacology I – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP045	Pharmacognosy I – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP046	Medicinal Chemistry I – Practical	5	10	4 Hr	15	35	4 Hrs	50
18BP047	Physical Pharmaceutics II – Practical	5	10	4 Hrs	15	35	4 Hrs	50
18BP048	Pharmacology I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
18BP049	Pharmacognosy I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
Total		**70**	**115**	**21 Hrs**	**185**	**515**	**31 Hrs**	**700**

Semester V

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sectional Exams		Total	Marks	Duration	
			Marks	Duration				
18BP056	Medicinal Chemistry II – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP057	Industrial PharmacyI– Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP058	Pharmacology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP059	Pharmacognosy II – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP060	Pharmaceutical Jurisprudence– Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP061	Industrial PharmacyI– Practical	5	10	4 Hr	15	35	4 Hrs	50
18BP062	Pharmacology II – Practical	5	10	4 Hr	15	35	4 Hrs	50
18BP063	Pharmacognosy II – Practical	5	10	4 Hr	15	35	4 Hrs	50
Total		**65**	**105**	**17 Hr**	**170**	**480**	**27 Hrs**	**650**

Semester VI

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sectional Exams		Total	Marks	Duration	
			Marks	Duration				
18BP066	Medicinal Chemistry III – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP067	Pharmacology III – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP068	Herbal Drug Technology – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP069	Biopharmaceutics and Pharmacokinetics – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP070	Pharmaceutical Biotechnology– Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP071	Quality Assurance– Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP072	Medicinal chemistry III – Practical	5	10	4 Hrs	15	35	4 Hrs	50
18BP073	Pharmacology III – Practical	5	10	4 Hrs	15	35	4 Hrs	50
18BP074	Herbal Drug Technology – Practical	5	10	4 Hrs	15	35	4 Hrs	50
Total		**75**	**120**	**18 Hrs**	**195**	**555**	**30 Hrs**	**750**

Semester VII

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sectional Exams		Total	Marks	Duration	
			Marks	Duration				
18BP076	Instrumental Methods of Analysis – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP077	Industrial Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP078	Pharmacy Practice – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP079	Novel Drug Delivery System – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP080	Instrumental Methods of Analysis – Practical	5	10	4 Hrs	15	35	4 Hrs	50
18BP081	Practice School*	25	-	-	25	125	5 Hrs	150
Total		**70**	**70**	**8Hrs**	**140**	**460**	**21 Hrs**	**600**

***** The subject experts at college level shall conductexaminations

Semester VIII

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sectional Exams		Total	Marks	Duration	
			Marks	Duration				
18BP086	Biostatistics and Research Methodology – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP087	Social and Preventive Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100
18BP088	Pharmaceutical Marketing – Theory	10 + 10 = 20	15 + 15 = 30	1 + 1 = 2 Hrs	25 + 25 = 50	75 + 75 = 150	3 + 3 = 6 Hrs	100 + 100 = 200
18BP089	Pharmaceutical Regulatory Science – Theory							
18BP090	Pharmacovigilance – Theory							
18BP091	Quality Control and Standardization of Herbals – Theory							
18BP092	Computer Aided Drug Design – Theory							
18BP093	Cell and Molecular Biology – Theory							
18BP094	Cosmetic Science – Theory							
18BP095	Experimental Pharmacology – Theory							
18BP096	Advanced Instrumentation Techniques – Theory							
18BP097	Project Work	-	-	-	-	150	4 Hrs	150
	Total	**40**	**60**	**4hrs**	**100**	**450**	**16hrs**	**550**

10.2. Internal assessment: Continuous mode

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

Table-XI: Scheme for awarding internal assessment: Continuous mode

Theory		
Criteria	**Maximum Marks**	
Attendance (Refer Table – XII)	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
Total	**10**	**5**
Practical		
Attendance (Refer Table – XII)	2	
Based on Practical Records, Regular viva voce, etc.	3	
Total	**5**	

Table- XII: Guidelines for the allotment of marks for attendance

Percentage of Attendance	**Theory**	**Practical**
95 – 100	4	2
90 – 94	3	1.5
85 – 89	2	1
80 – 84	1	0.5
Less than 80	0	0

11.2.1. Sessional Exams

Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college(s). The scheme of question paper for theory and practical Sectional examinations is given below. The average marks of two Sectional exams shall be computed for internal assessment as per the requirements given in tables –X.

Sectional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sectional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks.

Question paper pattern for theory Sectional examinations for subjects having University examination

I. Multiple Choice Questions (MCQs)	=	10 x 1 = 10
OR		OR
Objective Type Questions (5 x 2)	=	05 x 2 = 10
(Answer all the questions)		
I. Long Answers (Answer 1 out of 2)	=	1 x 10 = 10
II. Short Answers (Answer 2 out of 3)	=	2 x 5 = 10

Total	=	30 marks

For subjects having Non University Examination

I. Long Answers (Answer 1 outof2)	=	1 x 10 =10
II. Short Answers (Answer 4 outof6)	=	4x5 =2

Total = 30marks		

Question paper pattern for practical sectional examinations

I. Synopsis	=	10
II. Experiments	=	25
III. Viva voce	=	05

	Total=	40 marks
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11. Promotion and award of grades

A student shall be declared PASS and eligible for getting grade in a course of B.Pharmacy. Program if he/she secures at least 50% marks in that particular course including internal assessment. For example, to be declared as PASS and to get grade, the student has to secure a minimum of 50 marks for the total of 100 including continuous mode of assessment and end semester theory examination and has to secure a minimum of 25 marks for the total 50 including internal assessment and end semester practical examination.

12. Carry forward of marks

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified in 12, then he/she shall reappear for the end semester examination of that course. However his/her marks of the Internal Assessment shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

13. Improvement of internal assessment

A student shall have the opportunity to improve his/her performance only once in the Sectional exam component of the internal assessment. The re-conduct of the Sectional exam shall be completed before the commencement of next end semester theory examinations.

14. Re-examination of end semester examinations

Reexamination of end semester examination shall be conducted as per the schedule given in table XIII. The exact dates of examinations shall be notified from time to time.

Table-XIII: Tentative schedule of end semester examinations

Semester	For Regular Candidates	For Failed Candidates
I, III, V and VII	November / December	May / June
II, IV, VI and VIII	May / June	November / December

Question paper pattern for end semester theory examinations

For 75 marks paper

: Choice Questions(MCQs) OR = 20 x1 = 20 OR
Objective Type Questions (10 x 2) = 10x2 =20

(Answer all the questions)
II. Long Answers (Answer 2 out of 3) = 2 x 10 = 20
III. Short Answers (Answer 7 out of 9) = 7x5 =35

Total =75 marks

For 50 marks paper

I. Long Answers (Answer 2 out of 3) =2 x 10 = 20
II. Short Answers (Answer 6 out of 8) =6x5 =30

Total =50 marks

For 35 marks paper

I. Long Answers (Answer 1 out of 2) =1 x 10 =10
II. Short Answers (Answer 5 out of 7) =5x5 =25

Total =35 marks

Question paper pattern for end semester practical examinations

I. Synopsis	=	5
II. Experiments	=	25
III. Viva voce	=	5

Total =35marks

15. Academic Progression:

No student shall be admitted to any examination unless he/she fulfills the norms given in

16. Academic progression rules are applicable as follows:

A student shall be eligible to carry forward all the courses of me, II and III semesters till the IV semester examinations. However, he/she shall not be eligible to attend the courses of V semester until all the courses of me and II semesters are successfully completed.

A student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of me, II, III and IV semesters are successfully completed.

A student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of me, II, III, IV, V and VI semesters are successfully completed.

A student shall be eligible to get his/her CGPA upon successful completion of the courses of me to VIII semesters within the stipulated time period as per the norms specified in 26.

A lateral entry student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of III and IV semesters are successfully completed.

A lateral entry student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of III, IV, V and VI semesters are successfully completed.

A lateral entry student shall be eligible to get his/her CGPA upon successful completion of the courses of III to VIII semesters within the stipulated time period as per the norms specified in26.

Any student who has given more than 4 chances for successful completion of I / III semester courses and more than 3 chances for successful completion of II / IV semester courses shall be permitted to attend V / VII semester classes ONLY during the subsequent academic year as the case may be. In simpler terms there shall NOT be ay ODD BATCH for any semester.

Note: Grade AB should be considered as failed and treated as one head for deciding academic progression. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

17. Grading of performances

17.1. Letter grades and grade points allocations:

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and their corresponding grade points are given in Table –XII.

Table – XII: Letter grades and grade points equivalent to Percentage of marks and performances

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00 – 100	O	10	Outstanding
80.00 – 89.99	A	9	Excellent
70.00 – 79.99	B	8	Good
60.00 – 69.99	C	7	Fair
50.00 – 59.99	D	6	Average
Less than 50	F	0	Fail
Absent	AB	0	Fail

A learner who remains absent for any end semester examination shall be assigned a letter grade of AB and a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

18. The Semester grade point average (SGPA)

The performance of a student in a semester is indicated by a number called 'Semester Grade Point Average' (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses by the student during the semester. For example, if a student takes five courses(Theory/Practical) in a semester with credits C1, C2, C3, C4 and C5 and the student's grade points in these courses are G1, G2, G3, G4 and G5, respectively, and then students' SGPA is equal to:

$$\text{SGPA} = \frac{C_1G_1 + C_2G_2 + C_3G_3 + C_4G_4 + C_5G_5}{C_1 + C_2 + C_3 + C_4 + C_5}$$

The SGPA is calculated to two decimal points. It should be noted that, the SGPA for any semester shall take into consideration the F and ABS grade awarded in that semester. For example if a learner has an F or ABS grade in course 4, the SGPA shall then be computed as:

$$\textbf{SGPA} = \frac{C_1G_1 + C_2G_2 + C_3G_3 + C_4 * \text{ZERO} + C_5G_5}{C_1 + C_2 + C_3 + C_4 + C_5}$$

19. Cumulative Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the VIII semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all VIII semesters and their courses. The CGPA shall reflect the failed status in case of F grade(s), till the course(s) is/are passed. When the course(s) is /are passed by obtaining a pass grade on subsequent examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

$$\textbf{CGPA} = \frac{C_1S_1 + C_2S_2 + C_3S_3 + C_4S_4 + C_5S_5 + C_6S_6 + C_7S_7 + C_8S_8}{C_1 + C_2 + C_3 + C_4 + C_5 + C_6 + C_7 + C_8}$$

where C_1, C_2, C_3,.... is the total number of credits for semester I,II,III,…. and S_1,S_2, S_3,....is the SGPA of semester I,II,III,…. .

20. Declaration of class

The class shall be awarded on the basis of CGPA as follows: First Class with Distinction = CGPA of. 7.50 And above First Class = CGPA of 6.00 to7.49

Second Class= CGPA of 5.00 to5.99

21. Project work

All the students shall undertake a project under the supervision of a teacher and submit a report. The area of the project shall directly relate any one of the elective subject opted by the student in semester VIII. The project shall be carried out in group not exceeding 5 in number. The project report shall be submitted in triplicate (typed & bound copy not less than 25 pages).

The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of five students). The projects shall be evaluated as per the criteria given below.

Evaluation of Dissertation Book:

Objective(s) of the work done	15Marks
Methodology adopted	20Marks
Results and Discussions	20Marks
Conclusions and Outcomes	20Marks
Total	75Marks

Evaluation of Presentation:

Presentation of work	25Marks
Communication skills	20Marks
Question and answer skills	30Marks
Total	75Marks

Explanation: The 75 marks assigned to the dissertation book shall be same for all the students in a group. However, the 75 marks assigned for presentation shall be awarded based on the performance of individual students in the given criteria.

22. Industrial training (Desirable)

Every candidate shall be required to work for at least 150 hours spread over four weeks in a Pharmaceutical Industry/Hospital. It includes Production unit, Quality Control department, Quality Assurance department, Analytical laboratory, Chemical manufacturing unit, Pharmaceutical R&D, Hospital (Clinical Pharmacy), Clinical Research Organization, Community Pharmacy, etc. After the Semester – VI and before the commencement of Semester – VII, and shall submit satisfactory report of such work and certificate duly signed by the authority of training organization to the head of the institute.

23. Practice School

In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school declared by the program committee from time to time.

At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages). Along with the exams of semester VII, the report submitted by the student, knowledge and skills acquired by the student through practice school shall be evaluated by the subject experts at college level and grade point shall be awarded.

24. Award of Ranks

Ranks and Medals shall be awarded on the basis of final CGPA. However, candidates who fail in one or more courses during the B.Pharmacy program shall not be eligible for award of ranks. Moreover, the candidates should have completed the B. Pharm program in minimum prescribed number of years, (four years) for the award of Ranks.

25. Award of degree

Candidates who fulfill the requirements mentioned above shall be eligible for award of degree during the ensuing convocation.

26. Duration for completion of the program of study

The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the staid period, otherwise they have to get fresh Registration.

27. Re-admission after break of study

Candidate who seeks re-admission to the program after break of study has to get the approval from the university by paying a condonation fee.

No condonation is allowed for the candidate who has more than 2 years of break up period and he/she has to rejoin the program by paying the required fees.