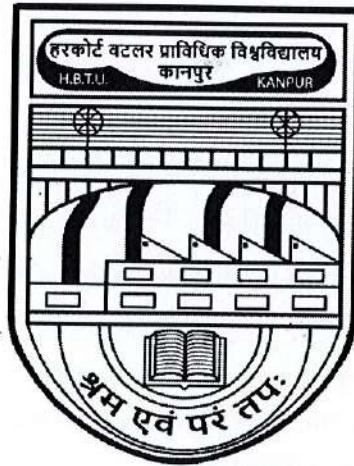


ORDINANCES
FOR
BACHELOR OF PHARMACY

(Effective from the session 2024-25)



HARCOURT BUTLER TECHNICAL UNIVERSITY
KANPUR-208002 (UP) – INDIA

First Ordinances

1. INTRODUCTION

Short Title, Commencement and Definitions

- 1.1 In pursuance of the provision of Section 45 (1-3) of the Uttar Pradesh Harcourt Butler Technical University, Kanpur Act, 2016, these are the first ordinances for Bachelor of Pharmacy degree course at Harcourt Butler Technical University, Kanpur.
- 1.2 These Ordinances shall be called as “The First Ordinances for the B. Pharm. Degree Program (CBCS) of the Pharmacy Council of India, New Delhi”.
- 1.3 They shall come into effect from the Academic Year 2024-25. The Ordinances framed are subject to modifications from time to time by Pharmacy Council of India.
- 1.4 In these Ordinances, unless the context otherwise requires,
- ‘Act’ means the Uttar Pradesh Harcourt Butler Technical University Act, 2016 as amended from time to time.
 - ‘Section’ means a section of the Act.
 - ‘Clause’ means a clause of the Ordinances.
 - ‘University’ means the Harcourt Butler Technical University, Kanpur.
- 1.5 Words and expression used herein but not defined in the Act shall have the same meaning as assigned to them in the Act.
- 1.6 The admission of students, eligibility to course of study, qualifications, attendance, registration, course structure, grading system, award of degrees, certificates, medals and other academic distinctions are covered in these Ordinances.
- The ‘University’ may start other Degree, Diploma, Certificate programmes and other academic distinctions as deemed necessary for fulfilling its objectives. The Ordinances for the same shall be as prescribed by the Academic Council and the Executive Council.
 - The ‘Courses of Study’ shall be as prescribed by the Academic Council and approved by the Executive Council.
 - Fellowships and Awards shall be instituted as per the requirements with approval of the Vice Chancellor under intimation to the Academic Council and the Executive Council.

2. SCHOOL AND PROGRAMME OF STUDY

The University offers Bachelor of Pharmacy (B. Pharm.) programme under the School of Pharmaceutical and Biological Sciences of the University.

3. ADMISSIONS AND ELIGIBILITY

- 3.1 The University offers 4 year Full Time B.Pharm Degree programme.
- 3.2 Admissions to B.Pharm programme shall be made as per the rules prescribed by the University from time to time.
- 3.3 Qualifications for admission to B.Pharm programme shall be as per the provisions of the Ordinances and the decisions of the Academic Council/Admission Committee of the University.
- 3.4 The admissions shall be based on the merit of the candidates in CUET (UG) / University Entrance Test or any other National Level Entrance Examination as specified by the University.
- 3.5 Admission to B. Pharm. programme through lateral entry for Diploma holder candidates is allowed directly in Second year (third semester). These admissions shall be based on the merit of the candidates in the CUET (UG).
- 3.6 The reservation policy as prescribed by the U.P. State Government or its directions issued from time to time shall be followed by the University.

3.7 Eligibility

(a) First year B. Pharm

Candidates with UP Domicile passed Intermediate (10+2) qualifying examination from U.P. Board or its equivalent from any other recognized Board/University with a minimum of five subjects in which Physics and Chemistry are compulsory subjects along with one of the subjects from Mathematics/ Biology/ Chemistry/ Biotechnology/ Computer Science/ Technical Vocational subject with min. 55% (50% for SC/ST/OBC-NCL/PwD) aggregate marks.

Any other qualification approved by the Pharmacy Council of India as equivalent to any of the above examinations.

(b) B.Pharm (Lateral Entry) (to third semester)

Candidates with UP Domicile passed D. Pharm from an Institution approved u/s 12 of the Pharmacy Act with min. 55% (50% for SC/ST/OBC-NCL/PwD) aggregate marks.

- 3.8 Admission of a candidate from any other University to Harcourt Butler Technical University on migration shall not be permitted.
- 3.9 If at any time after admission, it is found that a candidate has not fulfilled all the requirements stipulated in the offer of admission or has resorted to some fraudulent means to obtain admission; the University reserves the right to cancel the admission of the candidate.

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4. PROGRAMME DURATION

- 4.1 The course of study for B. Pharm. shall extend over a period of eight semesters (four academic years).
- 4.2 The duration for Diploma holder candidates admitted through lateral entry in Second Year shall be of three academic years (six semesters).
- 4.3 Maximum duration for completion of B. Pharm. programme is six years while for Diploma holder candidates, it shall be five years. Additional relaxation of one year may be granted by the Vice Chancellor on case to case basis on specific recommendation of Head of the Department, concerned Dean of School and Dean of Academic Affairs. Admission of the candidates who are not able to complete their degree requirements in stipulated period shall automatically be cancelled.
- 4.4 Each semester shall have a minimum of 100 working days (including the days of examinations) or as prescribed by PCI from time to time.
- 4.5 There shall be two regular semesters in one academic year. The semester that begins in July (July to December) is known as the Odd Semester and the one that begins in January (January to May) is known as the Even Semester.
- 4.6 The curricula and syllabi for the program shall be prescribed from time to time by Pharmacy Council of India, New Delhi.

5. MEDIUM OF INSTRUCTION AND EXAMINATIONS

Medium of instruction and examination shall be in English.

6. ATTENDANCE

- 6.1 Students are required to attend 100 % classes in each of the course registered in a particular semester: lectures, tutorials, practical's, projects and other prescribed curricular and co-curricular activities. However, a relaxation of 20 percent attendance may be granted by the concerned Head of Department on genuine ground. A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately.
- 6.2 A further relaxation of 15 percent may be granted by the Vice Chancellor on specific recommendations of the concerned Head of Department/Dean of School and the Dean of Academic Affairs, provided that the student was absent on medical grounds and / or any other exigencies beyond the control of the student. In such cases, prior permission from the concerned Head/Dean of School is required. In case of medical exigencies, the student is required to report immediately after the fitness is issued by the hospital.
- 6.3 No student shall be allowed to appear in the Mid Semester / End Semester Examination of a particular course (as the case may be), if he/ she does not have requisite 80% (or requisite 65% after availing relaxation as per the provisions of **Clause 6.2**). Students not allowed to appear in the examination due to short attendance shall be awarded 'U' grade. Such candidates, who do


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not fulfill the eligibility of minimum attendance in end semester examination, shall have to register as readmitted student in the subsequent year.

- 6.4 The attendance shall be counted from the date of start of academic session or the actual date of admission/registration. The commencement of classes shall begin one day after the date of registration.
- 6.5 A regular record of attendance both in Theory and Practical shall be maintained by the teaching staff of respective courses.

7. CURRICULUM 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.

7.1. Credit assignment

a) 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.

7.2. Minimum credit requirements

- a) The minimum credit points required for award of a B. Pharm. degree is 213/214. 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.
- b) 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.

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.

Table-I: Course of study for semester I

Course code	Name of the course	No. of hours	Tutorial	Credit points
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 BP106RMT	Remedial Biology/Remedial Mathematics–Theory*	2	-	2
BP107P	Human Anatomy and Physiology–Practical	4	-	2
BP108P	Pharmaceutical Analysis I–Practical	4	-	2
BP109P	Pharmaceutics I–Practical	4	-	2
BP110P	Pharmaceutical Inorganic Chemistry–Practical	4	-	2
BP111P	Communication skills–Practical*	2	-	1
BP112RBP	Remedial Biology–Practical*	2	-	1
Total		34^S/36[#]	4	29^S/30[#]

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

^SApplicable 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
BP201T	Human Anatomy and Physiology II–Theory	3	1	4
BP202T	Pharmaceutical Organic Chemistry I–Theory	3	1	4
BP203T	Biochemistry–Theory	3	1	4
BP204T	Pathophysiology–Theory	3	1	4
BP205T	Computer Applications in Pharmacy–Theory*	3	-	3
BP206T	Environmental Sciences–Theory*	3	-	3
BP207P	Human Anatomy and Physiology II–Practical	4	-	2
BP208P	Pharmaceutical Organic Chemistry I–Practical	4	-	2
BP209P	Biochemistry–Practical	4	-	2
BP210P	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
BP301T	Pharmaceutical Organic Chemistry II–Theory	3	1	4
BP302T	Physical Pharmaceutics I–Theory	3	1	4
BP303T	Pharmaceutical Microbiology–Theory	3	1	4
BP304T	Pharmaceutical Engineering–Theory	3	1	4
BP305P	Pharmaceutical Organic Chemistry II–Practical	4	-	2
BP306P	Physical Pharmaceutics I–Practical	4	-	2
BP307P	Pharmaceutical Microbiology–Practical	4	-	2
BP308P	Pharmaceutical Engineering–Practical	4	-	2
Total		28	4	24

*The lateral entry students taking admission directly to second year shall compulsorily appear for and pass the Communications Skill Subject Examination in the Third Semester.

Table-IV: Course of study for semester IV

Course code	Name of the course	No. of hours	Tutorial	Credit points
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 and Phytochemistry I–Theory	3	1	4
BP406P	Medicinal Chemistry I–Practical	4	-	2
BP407P	Physical Pharmaceutics II–Practical	4	-	2
BP408P	Pharmacology I–Practical	4	-	2
BP409P	Pharmacognosy and Phytochemistry I–Practical	4	-	2
Total		31	5	28

* The lateral entry students taking admission directly to second year shall compulsorily appear for and pass the Computer Applications in Pharmacy Subject Examination in the Fourth Semester.

Table-V: Course of study for semester V

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP501T	Medicinal Chemistry II–Theory	3	1	4
BP502T	Industrial Pharmacy–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
BP506P	Industrial Pharmacy–Practical	4	-	2
BP507P	Pharmacology II– Practical	4	-	2
BP508P	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
BP601T	Medicinal Chemistry III–Theory	3	1	4
BP602T	Pharmacology III–Theory	3	1	4
BP603T	Herbal Drug Technology–Theory	3	1	4
BP604T	Biopharmaceutics and Pharmacokinetics– Theory	3	1	4
BP605T	Pharmaceutical Biotechnology–Theory	3	1	4
BP606T	Quality Assurance–Theory	3	1	4
BP607P	Medicinal Chemistry III–Practical	4	-	2
BP608P	Pharmacology III–Practical	4	-	2
BP609P	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
BP701T	Instrumental Methods of Analysis-Theory	3	1	4
BP702T	Industrial Pharmacy II-Theory	3	1	4
BP703T	Pharmacy Practice-Theory	3	1	4
BP704T	Novel Drug Delivery System-Theory	3	1	4
BP705P	Instrumental Methods of Analysis-Practical	4	-	2
BP706PS	Practice School*	12	-	6
Total		28	4	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
BP801T	Biostatistics and Research Methodology	3	1	4
BP802T	Social and Preventive Pharmacy	3	1	4
BP803ET	Pharma Marketing Management	3+3= 6	1+1=2	4+4= 8
BP804ET	Pharmaceutical Regulatory Science			
BP805ET	Pharmacovigilance			
BP806ET	Quality Control and Standardization of Herbals			
BP807ET	Computer Aided Drug Design			
BP808ET	Cell and Molecular Biology			
BP809ET	Cosmetic Science			
BP810ET	Experimental Pharmacology			
BP811ET	Advanced Instrumentation Techniques			
BP812ET	Dietary Supplements and Nutraceuticals			
BP813PW	Project Work	12	-	6
Total		24	4	22

Table-IX: Semester wise credits distribution

Semester	Credit Points
I	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	213[§]/214[#]

* The credit points assigned for extracurricular and or co-curricular activities shall be given by the Dean of the School and the same shall be submitted to the Controller of the Examination of the University. The criteria to acquire this credit point shall be defined by the School 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.

9. PROGRAM COMMITTEE

The B. Pharm. program shall have a Board of Studies constituted by the Head of the Institution as per the University norms.

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 School level and the marks/grades shall be submitted to the university.


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

Semester - I

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP101T	Human Anatomy and Physiology I–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP102T	Pharmaceutical Analysis I–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP103T	Pharmaceutics I–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP104T	Pharmaceutical Inorganic Chemistry – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP105T	Communication skills–Theory*	5	10	1 Hr	15	35	1.5Hrs	50
BP106RBT BP106RMT	Remedial Biology/Remedial Mathematics–Theory*	5	10	1 Hr	15	35	1.5Hrs	50
BP107P	Human Anatomy and Physiology–Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP108P	Pharmaceutical Analysis I–Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP109P	Pharmaceutics I–Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP110P	Pharmaceutical Inorganic Chemistry – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP111P	Communication skills–Practical*	5	5	2 Hrs	10	15	2 Hrs	25
BP112RBP	Remedial Biology–Practical*	5	5	2 Hrs	10	15	2Hrs	25
Total		75[§]/80[#]	125[§]/130[#]	24[§]/ 26[#]Hrs	200[§]/ 210[#]	525[§]/ 540[#]	33[§]/ 35[#]Hrs	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)


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Semester - II

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP201T	Human Anatomy and Physiology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP202T	Pharmaceutical Organic Chemistry I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP203T	Biochemistry–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP204T	Pathophysiology–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP205T	Computer Applications in Pharmacy – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP206T	Environmental Sciences–Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP207P	Human Anatomy and Physiology II –Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP208P	Pharmaceutical Organic Chemistry I– Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP209P	Biochemistry–Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP210P	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 conduct examinations


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Semester - III

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP301T	Pharmaceutical Organic Chemistry II– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP302T	Physical Pharmaceutics–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP303T	Pharmaceutical Microbiology–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP304T	Pharmaceutical Engineering–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP305P	Pharmaceutical Organic Chemistry II – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP306P	Physical Pharmaceutics I– Practical	5	10	4 Hr	15	35	4 Hrs	50
BP307P	Pharmaceutical Microbiology– Practical	5	10	4 Hr	15	35	4 Hrs	50
BP308P	Pharmaceutical Engineering – Practical	5	10	4 Hr	15	35	4 Hrs	50
Total		60	100	20	160	440	28Hrs	600

*The lateral entry students taking admission directly to second year shall compulsorily appear for and pass the Communications Skill Subject Examination in the Third Semester.


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Semester - IV

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP401T	Pharmaceutical Organic Chemistry III- Theory	10	15	1 Hr	25	75	3 Hrs	100
BP402T	Medicinal Chemistry I-Theory	10	15	1 Hr	25	75	3 Hrs	100
BP403T	Physical Pharmaceutics II-Theory	10	15	1 Hr	25	75	3 Hrs	100
BP404T	Pharmacology I-Theory	10	15	1 Hr	25	75	3 Hrs	100
BP405T	Pharmacognosy I-Theory	10	15	1 Hr	25	75	3 Hrs	100
BP406P	Medicinal Chemistry I-Practical	5	10	4 Hr	15	35	4 Hrs	50
BP407P	Physical Pharmaceutics II-Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP408P	Pharmacology I-Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP409P	Pharmacognosy I-Practical	5	10	4 Hrs	15	35	4 Hrs	50
Total		70	115	21 Hrs	185	515	31 Hrs	700

*The lateral entry students taking admission directly to second year shall compulsorily appear for and pass the Computer Applications in Pharmacy Subject Examination in the Subject Examination in the Third Semester.


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Semester - V

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP501T	Medicinal Chemistry II–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP502T	Industrial Pharmacy I–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP503T	Pharmacology II–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP504T	Pharmacognosy II–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP505T	Pharmaceutical Jurisprudence–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP506P	Industrial Pharmacy I–Practical	5	10	4 Hr	15	35	4 Hrs	50
BP507P	Pharmacology II–Practical	5	10	4 Hr	15	35	4 Hrs	50
BP508P	Pharmacognosy II– Practical	5	10	4 Hr	15	35	4 Hrs	50
Total		65	105	17 Hr	170	480	27 Hrs	650


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Semester - VI

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP601T	Medicinal Chemistry III– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP602T	Pharmacology III– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP603T	Herbal Drug Technology– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP604T	Biopharmaceutics and Pharmacokinetics–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP605T	Pharmaceutical Biotechnology– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP606T	Quality Assurance– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP607P	Medicinal Chemistry III– Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP608P	Pharmacology III– Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP609P	Herbal Drug Technology– Practical	5	10	4 Hrs	15	35	4 Hrs	50
Total		75	120	18 Hrs	195	555	30 Hrs	750


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Semester - VII

Course code	Name of the course	Internal Assessment			End Semester Exams		Total Marks	
		Continuous Mode	Sessional Exams		Total Marks	Duration		
			Marks	Duration				
BP701T	Instrumental Methods of Analysis–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP702T	Industrial Pharmacy--Theory	10	15	1 Hr	25	75	3 Hrs	100
BP703T	Pharmacy Practice–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP704T	Novel Drug Delivery System–Theory	10	15	1 Hr	25	75	3 Hrs	100
BP705P	Instrumental Methods of Analysis –Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP706PS	Practice School*	25	-	-	25	125	5 Hrs	150
Total		70	70	8Hrs	140	460	21 Hrs	600

*The subject experts at School level shall conduct examinations.



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Semester - VIII

Course code	Name of the course	Internal Assessment			End Semester Exams		Total Marks	
		Continuous Mode	Sessional Exams		Total	Marks		Duration
			Marks	Duration				
BP801T	Biostatistics and Research Methodology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP802T	Social and Preventive Pharmacy –Theory	10	15	1 Hr	25	75	3 Hrs	100
BP803ET	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
BP804ET	Pharmaceutical Regulatory Science–Theory							
BP805ET	Pharmacovigilance –Theory							
BP806ET	Quality Control and Standardization of Herbals–Theory							
BP807ET	Computer Aided Drug Design – Theory							
BP808ET	Cell and Molecular Biology–Theory							
BP809ET	Cosmetic Science –Theory							
BP810ET	Experimental Pharmacology–Theory							
BP811ET	Advanced Instrumentation Techniques – Theory							
BP812PW	Project Work							
Total		40	60	4 Hrs	100	450	16 Hrs	550

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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
Lessthan80	0	0

a) Sessional Exams

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

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

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

I. Multiple Choice Questions (MCQs)	OR	=	10x1=10
			OR
Objective Type Questions (5x 2)		=	05x2=10
(Answer all the questions)			
I. Long Answers (Answer 1 out of 2)		=	1x10=10
II. Short Answers (Answer 2 out of 3)		=	2x5 = 10
	Total	=	<u>30 Marks</u>

For subjects having Non-University Examination

I. Long Answers (Answer 1 out of 2)	=	1x10=10
II. Short Answers (Answer 4 out of 6)	=	4x5=20
	Total	= <u>30 Marks</u>

Question paper pattern for practical sessional examinations

I. Synopsis	=	10
II. Experiments	=	25
III. Viva voce	=	05
	Total	= <u>30 Marks</u>

Question paper pattern for end semester theory examinations for 75 marks paper

I. Multiple Choice Questions (MCQs)	=	20x1=20
OR		OR
Objective Type Questions (10x 2)	=	10x2=20
(Answer all the questions)		
I. Long Answers (Answer 2 out of 3)	=	2x10=20
II. Short Answers (Answer 7 out of 9)	=	7x5 = 35
	Total	= <u>75 Marks</u>



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For 50 marks paper

I. Long Answers (Answer 1 out of 2)	=	2x10 = 20
II. Short Answers (Answer 5 out of 7)	=	6x5 = 30
Total	=	<u>50 Marks</u>

For 35 marks paper

I. Long Answers (Answer 1 out of 2)	=	1x10 = 10
II. Short Answers (Answer 5 out of 7)	=	5x5 = 25
Total	=	<u>35 Marks</u>

Question paper pattern for end semester practical examinations

I. Synopsis	=	5
II. Experiments	=	25
III. Viva voce	=	5
Total	=	<u>35 Marks</u>

11. PROMOTION AND AWARD OF GRADES

A student shall be declared PASS and eligible for getting grade in a course of B. Pharm. 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 marks including continuous mode of assessment and end semester theory examination and has to secure a minimum of 25marks for the total 50 marks including internal assessment and end semester practical examination.

12. CARRYOVER EXAMINATION

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified in Section 11 and awarded 'F' grade in any subject will be required to appear in the Carryover Examination in the subsequent years. In addition, all the students shall have the option of appearing in special carry over exams at the end of the year. 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 students shall have the opportunity to improve his/her performance only once in the Sessional exam component of the internal assessment. The re-conduct of the Sessional exam shall be completed before the commencement of next end semester theory examinations.

14. ACADEMIC PROGRESSION

No student shall be admitted to any examination unless she/she fulfills the norms given in 6. Academic progression rules are applicable as follows:

- a) A student shall be eligible to carry forward all the courses of I, II and III semester still the IV Semester examinations. However, he/she shall not be eligible to attend the courses of V Semester until all the courses of I and II semesters are successfully completed.
- b) 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 I, II, III and IV semesters are successfully completed.
- c) 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 I, II, III, IV, V and VI semesters are successfully completed.
- d) A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to VIII semesters within the stipulated time period as per the norms specified in 25.
- e) 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.
- f) 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.
- g) 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 in 26.
- h) 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 any 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.

15. GRADING OF PERFORMANCES

15.1 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

Table 2: Grading Scheme			
Marks (Out of 100)	Grade Obtained	Grade Point	Description
90 and above	O	10	Outstanding
80 and above	A	9	Excellent
70 and above	B	8	Good
60 and above	C	7	Fair
50 and above	D	6	Average
Less than 50	F	0	Fail
Absent	AB	0	Fail
Withdrawn	W	-	Withdrawn
Short Attendance	U	-	Short Attendance
Incomplete	I	-	Incomplete

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.

16. 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 AB grade awarded in that semester. For example, if a learner has an F or AB grade in course 4, the SGPA shall then be computed as:

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

17. 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:

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

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

18. AWARD OF DIVISION

The class shall be awarded on the basis of CGPA as follows:

First Class with Distinction	=	CGPA of 7.50
Above First Class	=	CGPA of 6.00 to 7.49
Second Class	=	CGPA of 5.00 to 5.99

19. CONVERSION OF CGPA TO ABSOLUTE PERCENTAGE

$$\text{CGPA} \times 10 = \text{Absolute Percentage}$$

20. 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 anyone of the elective subjects 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.

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Evaluation of Dissertation Book:

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

Evaluation of Presentation:

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

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.

21. 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.

22. 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 BoS 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.


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23. AWARD OF RANKS AND MEDALS

Ranks and Medals shall be awarded on the basis of final CGPA. However, candidates who fail in one or more courses during the B. Pharm. 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. Students securing First, Second and Third highest CGPA at the end of VIII semester in the B. Pharm. course in the first attempt will be awarded Vice-Chancellor's Gold, Silver and Bronze Medal respectively.

24. AWARD OF DEGREE

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

25. 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 said period, otherwise they have to get fresh Registration.

26. 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 re-admission fee. No re-admission is allowed for the candidate who has more than 2 years of breakup period and he/she have to rejoin the program by paying the required fees.

27. STUDENT DISCIPLINE

All the students who seek admission will have to abide by the discipline norms of the University and follow conduct or discipline rules/anti ragging measures in the University. In case of any act of indiscipline demonstrated by the student, the student shall be liable for punishment. On the recommendation of Proctorial Board punishment may be awarded in terms of suspension for the semester, expulsion from the hostel, withholding results, scholarships or other benefits, barring from the placement facility and/or termination from the University. The decision of the Vice Chancellor shall be final and binding.

28. POWER TO MODIFY

Notwithstanding all that has been stated above, the Academic Council of the University has the right to modify partly or completely the provisions of above Ordinances with the approval of the Executive Council. Under extreme exceptional circumstances arising out of certain inconsistency in the Ordinance or otherwise, Vice Chancellor can take suitable decision in deference to the laid down provisions, provided academic standard is not compromised and the same shall be reported to the ensuing Academic Council/Executive Council with proper justification. Such actions of the Vice Chancellor shall not be treated as precedence under any circumstance.


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