UNIVERSITY OF JAMMU

(NAAC ACCREDITED A++ GRADE UNIVERSITY)
Baba Sahib Ambedkar Road, Jammu-180006 (J&K)
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NOTIFICATION

(26/Nov/Adp/ 51)

It is hereby notified for the information of all concerned that the Vice-Chancellor, in anticipation of the approval of the Competent Bodies, has been pleased to authorize the adoption of the revised Statutes and Syllabus of Bachelor of Pharmacy (B. Pharm) as per the guideline of Pharmacy Council of India (PCI) aligned with National Education Policy-2020 from the Academic Session 2026-27 onwards (as given in Annexure).

SD/-
DEAN ACADEMIC AFFAIRS

No. F.Acd/III/26/6898-6903
Dated: 2-/11/2026

Copy to:

1. Dean, Faculty of Science
2. Director, Prabha Harjilal College of Pharmacy & Paraclinical Sciences
3. C.A to the Controller of Examinations
4. Assistant Registrar (Confidential/Exam. Prof.)
5. Guard File

Assistant Registrar (Academics)
02/11/26
24/11/26
02/11/26

B. PHARMACY
STATUTES
2026

REGULATION

1. Short title and commencement

This regulation shall be called as "The Regulation for the B.Pharm. Degree Programme Choice Based Credit System (CBCS) as per National Education Policy 2020 of the Pharmacy Council of India, New Delhi". It shall come into effect immediately upon notification by the Pharmacy Council of India. The regulations framed are subject to modification from time to time by Pharmacy Council of India.

2. Minimum qualification for admission

First year B.Pharm:

i. A candidate shall have passed the 10+2 examination conducted by the respective State or Central Government authorities, or any equivalent examination recognized by bodies such as the Association of Indian Universities (AIU) or the Council of Boards of School Education in India (COBSE), including wings such as IGNOU and NIOS, with English as one of the subjects and with Physics and Chemistry as compulsory subjects, along with either Mathematics or Biology.

ii. 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):

Candidate shall have passed 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 Programme

The course of study for B.Pharm 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 Programme shall be prescribed from time to time by Pharmacy Council of India.

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 90 working days. The odd semesters shall be conducted from the month of June/July to December/January and the even semesters shall be conducted from December/January to May/June in every calendar year. A break of not less than 7 days shall be provided between the semesters.

6. Attendance and progress

A candidate must maintain a minimum of 75% attendance in each individual course .Attendance for theory and practical components shall be considered separately. Only candidates who satisfactorily complete the prescribed course requirements shall be eligible to appear for the respective examinations.

7. Programme / Course credit structure

As per the Choice Based Credit System (CBCS), certain quantum of academic work viz .theory classes, 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.

Credit assignment

Theory and Practical courses

Courses are broadly classified as Theory, Practical, Project and Internship. Theory (T) courses consist of lecture (L) hours, while Practical(P) courses consist of hours spent in the laboratory. The Credits (C) assigned to a course dependent on the number of instructional hours per week and are calculated using a multiplier of one (1) for lecture hours, and a multiplier of one-half (1/2) for practical (laboratory) hours. For example, a theory course having three lectures per week throughout the semester carries 3 credits. Similarly, a practical course with four laboratory hours per week throughout semester carries 2 credits. If the calculated credit value results in a fraction of 0.5 or below, the lower integer value will be assigned as the credit. Every 30 hours spent on internship (I) and projects shall be considered equivalent to 1 credit.

7.1.2 Minimum credit requirements

The minimum credit points required for award of a B. Pharm. degree is 193. These credits are distributed across Theory courses, Practical courses, Internship and Project over the duration of eight semesters. The semester-wise distribution of credits is presented in Table IX. Courses generally progress in sequences, building competencies and their positioning indicate certain levels of 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 take additional courses, namely Healthcare Psychology and Communication Skills (Theory and Practical) and Basics of Python Programming for Pharmaceutical Sciences (Theory) during Semester III, and Applied Biostatistics and Data Analytics for Pharmaceutical Sciences (Theory) during Semester IV of the programme. The lateral entry student shall be awarded 47 credit points, equivalent to the cumulative credits earned as per the scheme of their Diploma in Pharmacy (D. Pharm.) programme, upon successful completion of the above-mentioned courses. Out of the total 47 credits, 41 credits shall be accounted for the Diploma programme, and the remaining 6 credits shall be awarded for the above-mentioned additional courses. The 41 credits accounted for the lateral entry students shall be recorded in the Semester III marks sheet.

8. Academic work

A regular record of attendance in Theory, Practical, Internship and Research Projects shall be maintained by the teaching staff of respective courses.

9. Course of study

The course of study for B. Pharm shall include Semester wise Theory& Practical as given in Tables – I to VIII. The number of hours allotted to each theory and practical course in any semester shall not be less than that shown in Tables – Ito VIII.

Table-I: Course of study for semester-I

Course Code	Name of the course	No. of hours Per week (L/P)	Credit points
BP115T	Basics of Python Programming for Pharmaceutical Sciences(Theory)	2	2
BP116T	General Pharmacy(Theory)	3	3
BP117T	Healthcare Psychology and Communication Skills (Theory)	1	1
BP118T	Human Anatomy, Physiology and Pathophysiology I (Theory)	4	4
BP119T	Introduction to Pharmacognosy (Theory)	3	3
BP120T	Pharmaceutical Inorganic and Analytical Chemistry (Theory)	3	3
BP121P	General Pharmacy(Practical)	3	1
BP122P	Healthcare Psychology and Communication Skills (Practical)	2	1
BP123P	Human Anatomy, Physiology and Pathophysiology I (Practical)	3	1
BP124P	Introduction to Pharmacognosy (Practical)	3	1
BP125P	Pharmaceutical Inorganic and Analytical Chemistry (Practical)	3	1
Total		**30**	**21**

Table-II: Course of study for semester II

Course Code	Name of the course		No. of hours perweek(L/P)	Credit points
BP215T	Applied Biostatistics and Data Analytics for Pharmaceutical Sciences (Theory)		2	2
BP216T	Biochemistry (Theory)		3	3
BP217T	Human Anatomy, Physiology and Pathophysiology II (Theory)		4	4
BP218T	Pharmaceutical Organic Chemistry (Theory)		4	4
BP219T	Pharmacognosy and Phytochemistry (Theory)		4	4
BP220T	Physical Pharmaceutics(Theory)		3	3
BP221P	Biochemistry(Practical)		3	1
BP222P	Human Anatomy, Physiology and Pathophysiology II (Practical)		3	1
BP223P	Pharmaceutical Organic Chemistry(Practical)		3	1
BP224P	Pharmacognosy and Phytochemistry (Practical)		3	1
BP225P	Physical Pharmaceutics(Practical)		3	1
BP226P SEC*	BP226 PSE C1	Communication Skills	2	1
	BP226 PSE C2	Mental Well-Being, Stress & Conflict Management		
	BP226 PSEC3	Fundamentals of Computer Operations		
Total			**37**	**26**

Table-III: Course of study for semester III

Course Code	Name of the course		No. of hours per week(L/P)	Credit points
BP315T	Introduction to Machine Learning in Pharmaceutical Sciences (Theory)		2	2
BP316T	Environmental Sciences(Theory)		1	1
BP317T	Ethics and Universal Human Values(Theory)		1	1
BP318T	General Pharmacology(Theory)		3	3
BP319T	Heterocyclic Compounds and Stereochemistry (Theory)		3	3
BP320T	Pharmaceutical Dosage Forms I (Theory)		3	3
BP321T	Pharmaceutical Engineering (Theory)		3	3
BP322T	Pharmaceutical Microbiology (Theory)		3	3
BP323P	General Pharmacology (Practical)		4	2
BP324P	Heterocyclic Compounds and Stereochemistry (Practical)		4	2
BP325P	Pharmaceutical Dosage Forms I (Practical)		3	1
BP326P AEC*	BP326P AEC1	Nutraceuticals and Functional Foods	2	1
	BP326P AEC2	Food Analysis		
	BP326P AEC3	Yoga and Life Sciences		
Total			**32**	**25**

Table-IV: Course of study for semester IV

Course Code	Name of the course	No. of hours per week (L/P)	Credit points
BP415T	Herbal Drug Technology (Theory)	3	3
BP416T	Medicinal Chemistry (Theory)	3	3
BP417T	Pharmaceutical Biotechnology (Theory)	3	3
BP418T	Social Pharmacy and Public Health(Theory)	2	2
BP419T	Systemic Pharmacology I (Theory)	3	3
BP420P	Herbal Drug Technology (Practical)	3	1
BP421P	Medicinal Chemistry (Practical)	3	1
BP422P	Pharmaceutical Biotechnology (Practical)	3	1
BP423P	Social Pharmacy and Public Health(Practical)	2	1
BP424P	Systemic Pharmacology I (Practical)	3	1
BP425I	Internship(Mandatory)	8	4
Total		**28**	**23**

Table-V:Course of study for semester V

Course Code	Name of the course	No. of hours Per week(L/P)	Credit points
BP515T	Biomedicinal Chemistry(Theory)	3	3
BP516T	Industrial Pharmacognosy(Theory)	3	3
BP517T	Innovation and Startup Ecosystem (Theory)	2	2
BP518T	Pharmaceutical Dosage Form II(Theory)	2	2
BP519T	Pharmaceutical Quality Assurance(Theory)	3	3
BP520T	Systemic Pharmacology II(Theory)	3	3
BP521P	Biomedicinal Chemistry(Practical)	4	2
BP522 P	Industrial Pharmacognosy (Practical)	3	1
BP523 P	Pharmaceutical Dosage Form II(Practical)	3	1
BP524 P	Systemic Pharmacology II(Practical)	4	2
Total		**30**	**22**

Table-VI: Course of study for semester VI

Course Code	Name of the course		No. of hours Per week (L/P)	Credit points
BP615T	Advanced Pharmacognosy (Theory)		3	3
BP616T	Biopharmaceutics and Pharmacokinetics (Theory)		3	3
BP617T	Intellectual Property Rights(Theory)		2	2
BP618T	AIapplications in Pharmaceutical Sciences (Theory)		2	2
BP619T	Pharmaceutical Analysis(Theory)		3	3
BP620T	Pharmaceutical Jurisprudence(Theory)		3	3
BP621T AEC*	BP621T AEC1	Green Chemistry	1	1
	BP621T AEC2	Materiovigilance and Hemovigilance		
	BP621T AEC3	Scientific Writing		
	BP621T AEC4	Drug Store and Business Management		
	BP621T AEC5	Career Building in Cultivation of Medicinal Plants		
	BP621T AEC6	Active Pharmaceutical Ingredients and Excipient Sciences		
BP622P	Biopharmaceutics and Pharmacokinetics (Practical)		3	1
BP623P	Pharmaceutical Analysis(Practical)		4	2
BP624P SEC*	BP624P SEC1	Computer-Aided Drug Design	2	1
	BP624P SEC2	Analytical Method Development and Validation		
	BP624P SEC3	Principles of Preclinical Studies		

BP626P VAC*	BP626P VAC1	Professional Skills	2	1
	BP626P VAC2	Process Analytical Technology(PAT) And QbD in Formulation Science		
BP627I	Internship(Mandatory)		8	4
Total			**28**	**26**

Table-VII: Course of study for semester VII

Course Code	Name of the course		No. of hours Per week(L/P)	Credit points
BP715T	Biostatistics Research methodology (Theory)		3	3
BP716T	Cosmetics and Cosmeceuticals (Theory)		2	2
BP717T	AI in Clinical applications (Theory)		2	2
BP718T	Modern Analytical Techniques(Theory)		3	3
BP719T	Pharmacovigilance(Theory)		3	3
BP720T	Pharmacy Practice(Theory)		3	3
BP721T	Regulatory Affairs (Theory)		2	2
BP722T AEC	BP722T AEC1	Current Good Manufacturing Practices (c GMP)	1	1
	BP722T AEC2	Pharmaceutical Automation		
	BP722T AEC3	Modern Techniques in Cellular Biology		
	BP722T AEC4	Medical Devices		
	BP722T AEC5	Transformation of Food Waste into Medicinal Products		
	BP722T AEC6	Biosimilars, Vaccines &Macromolecules		
BP723P	Modern Analytical Techniques(Practical)		3	1
BP724RP	Research Project		-	6
Total			**22**	**26**

Table-VIII: Course of study for semester VIII

Course Code	Name of the course		No. of hours Per week (L/P)	Credit points
BP815T	Ethical Considerations and Translational Applications of AI in Pharmacy(Theory)		2	2
BP816T	Clinical Pharmacotherapeutics (Theory)		2	2
BP817T	Industrial Pharmacy and Facility Design (Theory)		3	3
BP818T	Pharmaceutical Management (Theory)		2	2
BP819T	Sterile Dosage Forms and Novel Drug Delivery System (Theory)		3	3
BP820T AEC*	BP820TAEC1	Pharmaceutical Packaging	2	2
	BP820TAEC2	Supply Chain Management		
	BP820TAEC3	Industrial Safety and Waste Management		
	BP820TAEC4	Traditional Healing Practices Of India		
	BP820TAEC5	Futuristic Pharma through AR/VR:Pharma4.0		
	BP820TAEC6	Herbal Cosmetics for Industry Perspective		
BP821P	Pharmaceutical Marketing Skills(Practical)		2	1
BP822P	Sterile Dosage Forms and Novel Drug Delivery System (Practical)		4	2
BP823P VAC*	BP823 PVAC1	Cleaning Validation	2	1
	BP823 PVAC2	Basic Training in Aseptic Handling Techniques		
	BP823 PVAC3	Impurity Profiling		
BP824RP	Research Project		-	6
Total			22	24

Table-IX: Total Credits per Semester

Semester	TotalCredits
I	21
II	26
III	25
IV	23
V	22
VI	26
VII	26
VIII	24
Grand Total	193

10. **Note:** Earning a total of **193 credits**, as mentioned above, is mandatory for the award of the degree. However, the Institute/University has the liberty to offer additional courses as per its academic mandates and may also offer additional credits through various MOOCs, subject to the approval of its respective Academic Council.

11. Programme Committee and Internal Examination Committee

Programme Committee

1. The B. Pharm. Programme shall have a Programme Committee constituted by the Head of theInstitution/Principalinconsultationwithalltheheadsofthedepartmentsandreconstitutedannually.

2. The composition of the Programme Committee shall beas follows:
   - The Principal/HOD I shall serve as the Chairperson
   - One senior teacher from any department shall act as the B.Pharm Coordinator
   - One teacher form each department offering B.Pharm courses and
   - Four student representatives of the programme (one from each academic year), nominated by the Head of the Institution.

3. The Programme Committee shall meet at least twice in every semester to perform the following duties.

4. Duties of the Programme Committee (not limited to):
   i. Periodically reviewing the progress of classes and attendance.
   ii. Discussing problems concerning the curriculum, syllabus, and conduct of classes.
   iii. Communicating its recommendations on academic matters to the Head of the Institution, with such communications being duly recorded.
   iv. Periodically reviewing and monitoring the attainment of Programme Outcomes and Course Outcomes along with Bloom's Taxonomy Levels and/or Miller's Pyramid.
   v. Encouraging the use of ICT tools and providing – learning resources for higher-order learning.
   vi. Ensuring effective implementation of participative, problem-based, experiential learning, and innovative pedagogical approaches for effective outcomes.

Internal Examination Committee

1. The B. Pharm. Programme shall have an Internal Examination Committee constituted by the Principal/HoI in consultation with all the Heads of the Departments and may be reconstituted as and when necessary.
2. The composition of the Internal Examination Committee shall be as follows:
    - Principal/ HoI– Chairperson
    - B.Pharm Programme Coordinator –Member Secretary
    - One senior faculty member from each department involved in B. Pharm teaching Members
    - Examination Cell In-charge– Member

3. The Committee shall meet periodically, before each Sessional Examination (Internal Assessment) and before the end-semester examination.
4. Duties of the Internal Examination Committee (not limited to):
    i. Plan and approve the internal assessment calendar for all semesters.
    ii. Ensure uniformity, transparency, and fairness in continuous assessment, sessional, and practical examinations.
    iii. Moderation of sessional question papers and assessment tools in alignment with programme and course outcomes, incorporating Bloom's Taxonomy Levels and/or Miller's Pyramid.
    iv. Monitor the conduct and evaluation of theory, practical, internship, and project assessments.
    v. Ensure compliance with PCI regulations, university ordinances, and NEP-2020 assessment reforms.
    vi. Promote out come-based, skill-oriented, and innovative assessment methods.
    vii. Review, moderate, and finalize internal assessment marks prior to submission to the university.
    viii. Addressstudentgrievancesrelatedtointernalassessmentsinatimelyandstructuredmanner.
    ix. Maintain proper records, reports, and minutes related to internal examinations and assessments.
    x. Recommend remedial measures and academic support as and when required.

Scheme for credit based marks distribution for assessment

The general scheme for credit wise marks distribution is as given below. The detailed scheme for internal assessment and end semester examinations is given in Table – X(a-h).

Credits	Maximum Marks	Internal Assessment	External Assessment
4	100	40	60
3	75	30	45
2 or1	50	20	30

12. End semester examinations

The End Semester Examinations for each theory and practical course through semesters I to VIII shall be conducted by the university. (Table-X).

Table-Xa: Semester I

Course Code	Name of the Course	Credit	Continuous Mode (Marks)	Sessional Exam (Marks)	Sessional Duration	Internal Total	End Semester Marks	EndSem Exam Duration	Total Marks
BP115T	Basics of Python Programming for Pharmaceutical Sciences(Theory)	2	10	10	1 Hr	20	30	1.5 Hr	50
BP116T	General Pharmacy(Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP117T	Healthcare Psychology and Communication Skills (Theory)	1	10	10	1 Hr	20	30	1.5 Hr	50
BP118T	Human Anatomy, Physiology and Pathophysiology I (Theory)	4	20	20	1 Hr	40	60	3 Hr	100
BP119T	Introduction to Pharmacognosy (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP120T	Pharmaceutical Inorganic and Analytical Chemistry (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP121P	General Pharmacy(Practical)	1	10	10	3 Hr	20	30	3 Hr	50

BP122P	Healthcare Psychology and Communication Skills (Practical)	1	10	10	3 Hr	20	30	3Hr	50
BP123P	Human Anatomy, Physiology and Pathophysiology I (Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP124P	Introduction to Pharmacognosy (Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP125P	Pharmaceutical Inorganic and Analytical Chemistry (Practical)	1	10	10	3 Hr	20	30	3 Hr	50

Table-Xb: Semester II

Course Code	Name of the Course	Credit	Continuous Mode (Marks)	Sessional Exam (Marks)	Sessional Duration	Internal Total	End Semester Marks	Exam Duration	Total Marks
BP215T	Applied Biostatistics and Data Analytics for Pharmaceutical Sciences (Theory)	2	10	10	1 Hr	20	30	1.5 Hr	50
BP216T	Biochemistry (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP217T	Human Anatomy, Physiology and Pathophysiology II (Theory)	4	20	20	1 Hr	40	60	3 Hr	100
BP218T	Pharmaceutical Organic Chemistry(Theory)	4	20	20	1 Hr	40	60	3 Hr	100
BP219T	Pharmacognosy and Phytochemistry (Theory)	4	20	20	1 Hr	40	60	3 Hr	100
BP220T	Physical Pharmaceutics (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP221P	Biochemistry (Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP222P	Human Anatomy, Physiology and Pathophysiology II (Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP223P	Pharmaceutical Organic Chemistry(Practical)	1	10	10	3 Hr	20	30	3 Hr	50

BP224P	Pharmacognosy and Phytochemistry (Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP225P	Physical Pharmaceutics (Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP226P	SEC–Elective1 (Practical)	1	10	10	3 Hr	20	30	3 Hr	50

Table-Xc: Semester III

Course Code	Name of the Course	Credit	Continuous Mode (Marks)	Sessional Exam (Marks)	Sessional Duration	Internal Total	End Semester Marks	Exam Duration	Total Marks
BP315T	Introduction to Machine Learning in Pharmaceutical Sciences (Theory)	2	10	10	1 Hr	20	30	1.5 Hr	50
BP316T	Environmental Science (Theory)	1	10	10	1 Hr	20	30	1.5 Hr	50
BP317T	Ethics and Universal Human Values(Theory)	1	10	10	1 Hr	20	30	1.5 Hr	50
BP318T	General Pharmacology (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP319T	Heterocyclic Compounds and Stereochemistry (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP320T	Pharmaceutical Dosage Forms I (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP321T	Pharmaceutical Engineering (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP322T	Pharmaceutical Microbiology(Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP323P	General Pharmacology (Practical)	2	10	10	4 Hr	20	30	4 Hr	50

BP324P	Heterocyclic Compounds and Stereochemistry (Practical)	2	10	10	4 Hr	20	30	4 Hr	50
BP325P	Pharmaceutical Dosage Forms I (Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP326P	AEC–Elective2 (Practical)	1	10	10	3 Hr	20	30	3 Hr	50

Table-Xd: Semester IV

Course Code	Name of the Course	Credit	Continuous Mode(Marks)	Sessional Exam (Marks)	Sessional Duration	Internal Total	End Semester Marks	Exam Duration	Total Marks
BP415T	Herbal Drug Technology(Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP416T	Medicinal Chemistry (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP417T	Pharmaceutical Biotechnology (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP418T	Social Pharmacy and Public Health (Theory)	2	10	10	1 Hr	20	30	1.5 Hr	50
BP419T	Systemic Pharmacology I (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP420P	Herbal Drug Technology (Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP421P	Medicinal Chemistry (Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP422P	Pharmaceutical Biotechnology (Practical)	1	10	10	3 Hr	20	30	3 Hr	50

BP423P	Social Pharmacy and Public Health (Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP424P	Systemic Pharmacology I (Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP425I	Internship (Mandatory)	4	Refer Section 22		–	–	100	4 Hr	100

Table-Xc: Semester V

Course Code	Name of the Course	Credit	Continuous Mode(Marks)	Sessional Exam (Marks)	Sessional Duration	Internal Total	End Semester Marks	Exam Duration	Total Marks
BP515T	Biomedicinal Chemistry(Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP516T	Industrial Pharmacognosy (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP517T	Innovation and StartupEcosystem (Theory)	2	10	10	1 Hr	20	30	1.5 Hr	50
BP518T	Pharmaceutical DosageFormsII (Theory)	2	10	10	1 Hr	20	30	1.5 Hr	50
BP519T	Pharmaceutical Quality Assurance (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP520T	Systemic Pharmacology II (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP521P	Biomedicinal Chemistry(Practical)	2	10	10	4 Hr	20	30	4 Hr	50
BP522P	Industrial Pharmacognosy (Practical)	1	10	10	3 Hr	20	30	3 Hr	50

BP523P	Pharmaceutical Dosage FormsII (Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP524P	Systemic Pharmacology II (Practical)	2	10	10	4 Hr	20	30	4 Hr	50

Table-X f: Semester VI

Course Code	Name of the Course	Credit	Continuous Mode(Marks)	Sessional Exam (Marks)	Sessional Duration	Internal Total	End Semester Marks	Exam Duration	Total Marks
BP615T	Advanced Pharmacognosy (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP616T	Biopharmaceutics and Pharmacokinetics (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP617T	Intellectual Property Rights(Theory)	2	10	10	1 Hr	20	30	1.5 Hr	50
BP618T	AI Applications in Pharmaceutical Sciences (Theory)	2	10	10	1 Hr	20	30	1.5 Hr	50
BP619T	Pharmaceutical Analysis (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP620T	Pharmaceutical Jurisprudence (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP621T	AEC–Elective3 (Theory)	1	10	10	1 Hr	20	30	1.5 Hr	50
BP622P	Biopharmaceutics and Pharmacokinetics (Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP623P	Pharmaceutical Analysis (Practical)	2	10	10	4 Hr	20	30	4 Hr	50

BP624P	SEC–Elective4 (Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP625P	VAC–Elective5 (Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP626I	Internship (Mandatory)	4	Refer Section 22	–	–	–	100	4 Hr	100

Table-X g: Semester VII

Course Code	Name of the Course	Credit	Continuous Mode (Marks)	Sessional Exam (Marks)	Sessional Duration	Internal Total	End Semester Marks	Exam Duration	Total Marks
BP715T	Biostatistics and Research Methodology (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP716T	Cosmetics and Cosmeceuticals (Theory)	2	10	10	1 Hr	20	30	1.5 Hr	50
BP717T	AI in Clinical Applications(Theory)	2	10	10	1 Hr	20	30	1.5 Hr	50
BP718T	Modern Analytical Techniques(Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP719T	Pharmacovigilance (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP720T	Pharmacy Practice (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP721T	Regulatory Affairs (Theory)	2	10	10	1 Hr	20	30	1.5 Hr	50
BP722T	AEC–Elective6 (Theory)	1	10	10	1 Hr	20	30	1.5 Hr	50
BP723P	Modern Analytical Techniques(Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP724RP	Research Project	6	Refer Section 21	–	–	–	150	4 Hr	150

Table-Xh :Semester VIII

Course Code	Name of the Course	Credit	Continuous Mode (Marks)	Sessional Exam (Marks)	Sessional Duration	Internal Total	End Semester Marks	Exam Duration	Total Marks
BP815T	Ethical Considerations and Translational Applications of AI in Pharmacy (Theory)	2	10	10	1 Hr	20	30	1.5 Hr	50
BP816T	Clinical Pharmacotherapeutics (Theory)	2	10	10	1 Hr	20	30	1.5 Hr	50
BP817T	Industrial Pharmacy and Facility Design (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP818T	Pharmaceutical Management (Theory)	2	10	10	1 Hr	20	30	1.5 Hr	50
BP819T	Sterile Dosage Forms and Novel Drug Delivery System (Theory)	3	15	15	1 Hr	30	45	2 Hr	75
BP820T	AEC–Elective7 (Theory)	2	10	10	1 Hr	20	30	1.5 Hr	50
BP821P	Pharmaceutical Marketing Skills(Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP822P	Sterile Dosage Forms and Novel Drug Delivery System (Practical)	2	10	10	4 Hr	20	30	4 Hr	50
BP823P	VAC–Elective8(Practical)	1	10	10	3 Hr	20	30	3 Hr	50
BP824RP	Research Project	6	Refer Section 21	–	–	–	150	4 Hr	150

Internal assessment: Continuous internal assessment and Sessional examination

The marks allocated for Continuous mode of Internal assessment and Sessional examination shall be awarded as per the scheme given below.

Table–XI: Scheme for awarding internal assessment: Continuous mode and Sessional

a. Theory

Theory–Internal assessment pattern of marks distribution

Theory		Internal assessment pattern of marks distribution			
Credit Type	**Max. Marks**	**Total**	**Attendance** (Refer Table–XII)and Student–Teacher Interaction	**Academic Activities** (Average of Any three: quiz, assignment, open book test, fieldwork, group discussion, seminar, etc.)	**Sessional** (Average of two tests) Duration1 Hour
4	100	40	10	10	20
3	75	30	7.5	7.5	15
2 or 1	50	20	05	05	10

b. Practical

Practical–Internal assessment pattern of marks distribution

Theory		Internal assessment pattern of marks distribution			
Credit Type	**Max. Marks**	**Total**	**Attendance** (Refer Table–XII)and Student–Teacher Interaction	**Based on Practical Records, Regular viva voce, etc.**	**Sessional** (Average of two tests)Duration–As Per allotted hours#)
2 or1	50	20	05	05	10

For practical courses (core as well as elective), those having four hours per week shall have a four-hour duration for the sessional and end-semester examinations. Practical courses with less than four hours per week shall have a three-hour duration for the sessional and end-semester examinations.

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

Percentage of Attendance	Theory			Practical
	4 Credit	3 Credit	2or1 Credit	
90– 100	4	3.5	2	2
85 – 89	3	2.5	1.5	1.5
75 – 84	2	1.5	1	1
Less than 75	0	0	0	0

Sessional Exams

Two Sessional exams shall be conducted for each theory/ practical course as per the schedule fixed by the college(s)/University. The scheme of question paper for theory and practical Sessional examinations is given in Table XIII– XIV below.

Table–XIII: Internal Assessment Question Paper Pattern (Theory)

Type of questions	4 Credit Course	3 Credit Course	2 or1 Credit Course
I. Multiple Choice Questions (MCQs) Or Objective Type Questions	4×1 Mark each or 2×2 Marks each (Compulsory)	2×1 Mark each (Compulsory)	2×1 Mark each (Compulsory)
II. Short Answers	2×3 Marks each (2out of 3)	2×3 Marks each (2 out of 3)	1×3 Marks each (1 out of 2)
III. Long Answers	1×10 Marks each (1 out of 2)	1×7 Marks each (1 out of 2)	1×5 Marks each (1 out of 2)
Max. Marks	20	15	10
Duration	1 Hour	1 Hour	1 Hour

Table–XIV:Internal Assessment Question Paper Pattern(Practical)

Type of questions	2or1Credit Course
Synopsis	2
Major Experiment	4
Minor Experiment	2
Viva voce	2
Max. Marks	10
Duration	As per the allotted hours in scheme

The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in Table – XI.

End semester Examination

The End semester Theory and practical examination shall be conducted as per the scheme given in Table XV– XVI as per the credits allotted.

Table–XV: End Semester Question Paper Pattern(Theory)

Type of questions	4 Credit Course	3 Credit Course	2 or1 Credit Course
I. Multiple Choice Questions(MCQs)Or Objective Type Questions	20×1 Mark each or 10×2 Marks each (Compulsory)	10×1 Mark each (Compulsory)	10×1 Mark each (Compulsory)
II. Short Answers	5×4 Marks each (5outof 7)	5×4 Marks each (5 out of 7)	5×2 Marks each (5out of 7)

III. Long Answers	2×10Markseach (2out of 3)	2×7.5Markseach (2out of 3)	2×5Markseach (2out of 3)
Max. Marks	60	45	30
Duration	3 Hours	2 Hours	1.5 Hours

Table–XVI: End Semester Question Paper Pattern(Practical)

Type of questions	2or1Credit Course
Synopsis	7.5
Major Experiment	10
Minor Experiment	5
Viva voce	7.5
Max. Marks	30
Duration	As per the allotted hours in scheme#

For practical courses (core as well as elective), those having four hours per week shall have a four-hour duration for the sessional and end-semester examinations. Practical courses with less than four hours per week shall have a three-hour duration for the sessional and end-semester examinations.

13. Promotion and award of grades

Promotion: A student shall be declared PASS and eligible to receive a grade in a course of the B.Pharm. programme if he/she secures at least 50% marks in that particular course, including internal assessment. For example, to be declared PASS and to receive a grade, the student must secure a minimum of 50 marks out of a total of 100, inclusive of internal assessment marks (continuous internal assessment and sessional examination marks) and the end-semester theory examination marks as applicable.

Grace Marks and Moderation: Grace marks shall be awarded to the students as per the norms of the University, with due emphasis on promoting learner progression.

14. Carry forward of internal assessment 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.

15. Improvement of internal assessment

A student shall have the opportunity to improve his/her performance only once in the Sessional exam component of the internal assessment. There- conduct of the Sessional exam shall be completed within that particular semester only. The re-conduct of sessional examinations for failed candidates shall be conducted only once for the purpose of improving their sessional marks, without changing their continuous internal assessment.

16. End semester supplementary examinations

Supplementary examination should be completed with in 2months of publishing results of regular end semester examination. The proposed end semester examinations to be conducted as per the schedule below

Table–XVI: Tentative schedule of end semester examinations

Semester	For Regular Examiantion
I,III,V and VII	December/January
II,IV,VI and VIII	May/ June

17. Academic progression

Students are permitted to progress to the next semester even if they fail a course. However, to appear for the Semester VIII end semester examination, a student must have successfully completed all courses up to Semester VII. The final CGPA shall be awarded only after successful completion of all courses from Semester I to Semester VIII within the maximum duration prescribed by PCI. Lateral entry students shall successfully complete all courses from Semester III to Semester VII before appearing for the Semester VIII end semester examination

18. Grading of performance

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 – XVII.

Table–XVII: Letter grades and grade points equivalent to percentage of marks and performance

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
Lessthan50	F	0	Fail
Absent	AB	0	Fail

A student 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. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

19. 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.

$$SGPA = \frac{C1G1 + C2G2 + C3G3 + C4G4 + C5G5}{C1 + C2 + C3 + C4 + C5}$$

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.

20. 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.

$$SGPA = \frac{C1S1 + C2S2 + C3S3 + C4S4 + C5S5 + C6S6 + C7S7 + C8S8}{C1 + C2 + C3 + C4 + C5 + C6 + C7 + c8}$$

CGPA To Percentage Conversion

It is mandatory for Examining Authority to mention both, marks and SGPA and/or CGPA scores, in the mark sheets. The conversion factor for calculation of CGPA into percentage should be 10.0 uniformly.

Credit Record and Transfer Mechanism

The Examining Authority shall be responsible for creation and verification of Academic Bank of Credits ID, uploading and maintenance of semester wise credits/grades and award in the ABC and National Academic Depository (NAD) to facilitate the credit transfer and redemption as per guidelines of statutory bodies.

21. Declaration of class

The classification of the degree shall be determined based on the Cumulative Grade Point Average (CGPA) obtained by the candidate, as indicated below:

- First Class with Distinction: **CGPA of 7.50 and above**
- First Class: **CGPA of 6.00 to 7.49**
- Second Class: **CGPA of 5.00 to5.99**

22. Project work

All students shall undertake a project under the supervision of a teacher and submit a report, preferably with the involvement of an external mentor from Industry, Hospital, NABL or CDSCO-approved labs, or an Allied/Interdisciplinary field. The project shall be carried out in groups not exceeding three members. The project report must be submitted in triplicate as a typed and bound copy of no less than 25pages. Internal and external examiners appointed by the University shall evaluate the project during the practical examinations of the respective semester(s), and students shall be evaluated in groups. Additionally, students are permitted the option to pursue a continuous research theme initiated in the seventh semester and extending through the eighth semester. Under this provision, the specific project mile stones achieved by the conclusion of the seventh semester shall under go formal evaluation by the appointed examiners during that semester's final examination.

The projects shall be evaluated as per the criteria given in **Table XVIII** and **Table XIX** below.

Table-XVIII: Evaluation of Dissertation Book

Sl. No.	Evaluation Criteria	Maximum Marks
1	Objectives of the work undertaken	10
2	Methodology adopted	20
3	Results and discussion	20
4	Conclusion and outcome	10
	Total	**60**

Table XIX. Evaluation of Dissertation Presentation

Sl. No.	Evaluation Criteria	Maximum Marks
1	Presentation of work	40
2	Communication skills	20
3	Question and answer skills	30
	Total	**90**

Explanation: The 60 marks assigned to the dissertation book shall be same for all the students in a group. However, the 90 marks assigned for presentation shall be awarded based on the performance of individual students in the given criteria.

23. Internship

Every candidate shall be required to complete a minimum of 240 hours of practical training, spread over a period of two semesters, in a Pharmaceutical/ Cosmetics/ Medical Devices/ Food Industry, or in a Hospital/Community Pharmacy, or any other relevant field as per the prescribed course content. He/she has to submit two internship reports which will be evaluated separately.

Certificate and Report submission: *75Marks*
Presentation and Discussion: *25 Marks*
Total: *100 Marks*

24. Industry/Field Visits and other Co-curricular Activities.

It shall be compulsory for pharmacy Institutions to organize industrial/field visit and other co-curricularactivitiestopromoteholisticlearningthroughparticipative,problem-based,experientialand innovative pedagogical methods. Students shall submit individual reports, which shall be assessed in continuous evaluation mode as part of any core course each year, as decided by the Programme Committee.

Industry/Field Visits

It shall be compulsory for students to undertake at least one industrial/field visit during each year to facilities involved in the manufacturing of active pharmaceutical ingredients, excipients, pharmaceutical formulations, medical devices, food, cosmetics, government/ NABL approved drug and medical device testing laboratories or NABH accredited hospital. It shall be assured by the institutions that the facilities chosen for a particular year shall not be repeated.

Memorandum of Understanding (MoU)

A formal and legally valid Memorandum of Understanding (MoU) must be executed (minimum 10) between the pharmacy Institution and pharmaceutical Industry/government /NABL approved drug and medical device testing laboratories /NABH accredited hospital. Out of those MoUs, 5 must be with the pharmaceutical industries.

Co-curricular Activities

It shall be compulsory for the pharmacy institution to adopt a village or a ward in the panchayath /municipal corporation and engage in community service activities. The community services shall include (but not limited to)prescription survey, awareness of rational drug use, patient counseling services or activities as per the prescribed course content.

25. Award of Ranks

Ranks and Medals shall be awarded on the basis offinal CGPA. However, candidates who fail in one or more courses during the B.Pharm Programme shall not be eligible foraward of ranks.More over, the candidates should have completed the B. Pharm Programme in minimum prescribed number of years (i.e. four years) for the award of Ranks.

26. Award of Degree

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

27. Duration for Completion of the Programme

The maximum period permitted for completion of the Programme shall be twice the prescribed duration of the Programme. Any student who fails to complete the Programme within this stipulated period shall be required to discontinue the course.

28. Re-admission after Break of Study

A candidate seeking re-admission to the programme after a break in studies must obtain approval from the university by paying the prescribed condonation fee. Condonation will not be granted if the break in study exceeds two years or if the student fails to complete the programme within the maximum permitted duration (N×2).