



## राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठ

(सेंट्रल प्रोव्हिन्सेस शासन शिक्षण विभागाची अधिसूचना क्रमांक ५१३ दिनांक १ ऑगस्ट, १९२३ द्वारा स्थापित व महाराष्ट्र सार्वजनिक विद्यापीठ अधिनियम, २०१६ (सन २०१७ चा महाराष्ट्र विद्यापीठ अधिनियम, क्रमांक ६) द्वारा संचालित राज्य विद्यापीठ)

(विद्या विभाग)

राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठ जमनालाल बजाज प्रशासकिय भवन महात्मा जोतिबा फुले शैक्षणिक परिसर, विद्यापीठ कॉम्पस चौक ते अंबाझरी टी-पॉइंट मार्ग, नागपूर - ४४० ०३३.

अधिसूचना क्र. /रातुमनावि/विद्या/२०२२/

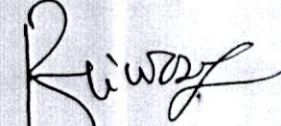
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### :: अधिसूचना ::

सर्व संबंधितांच्या माहितीकरीता सूचित करण्यात येते की, विज्ञान व तंत्रज्ञान विद्याशाखेअंतर्गत येणा-या औषधीनिर्माणशास्त्र अभ्यासमंडळांनी बी.फार्म.या पदवी औषधीशास्त्र अभ्यासक्रमाची, परीक्षा योजना, समायोजन योजना, व प्रारूप निदेश, तयार केले होते. यास प्रारूप निदेश समितीने अंतीमरूप देऊन दिनांक १२.०५.२०२२ रोजी नविन प्रारूप निदेश तयार करून मा. कुलगुरूंकडे मान्यतेकरिता सादर केले होते. मा. कुलगुरू महोदयांनी सदर प्रारूपास दिनांक ०१.०७.२०२२ रोजी मान्यता प्रदान करून महाराष्ट्र सार्वजनिक विद्यापीठ अधिनियम, २०१६ च्या कलम १२(८) अंतर्गत सर्व संबंधितांकरीता निदेश क्रमांक २५/२०२२ लागू केले आहे. करिता हि अधिसूचना निर्गमित करण्यात येत असून कृपया याची संबंधितांनी नोंद घ्यावी.

(टिप:- उपरोक्त निर्देश विद्यापीठाच्या, ([www.nagpuruniversity.org](http://www.nagpuruniversity.org)) या संकेतस्थळावर उपलब्ध करण्यात आलेला आहे.)

मा. कुलगुरूंच्या आदेशान्वये



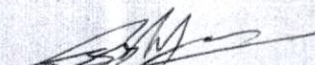
(डॉ. राजु हिवसे)

उपकुलसचिव

प्रतिलिपी माहिती व पुढील कार्यवाहीसाठी अग्रेषित:

१. औषधिनिर्माणशास्त्र महाविद्यालयाचे सर्व प्राचार्य व विभागप्रमुख
२. मा. अधिष्ठाता, विज्ञान व तंत्रज्ञान विद्याशाखा
३. औषधीनिर्माणशास्त्र अभ्यासमंडळ सदस्य
४. मा. संचालक, परीक्षा व मूल्यमापन मंडळ
५. उपकुलसचिव (परीक्षा, पूर्व व परीक्षा उपरांत),
६. सहायक कुलसचिव (गोपनीय),
७. सहायक कुलसचिव (व्यावसायिक परीक्षा)
८. अधीक्षक (निकाल विभाग),
९. उपकुलसचिव मा. कुलगुरूंचे कार्यालय
१०. स्वीय सहाय्यक, मा. प्र- कुलगुरूंचे कार्यालय
११. डॉ. प्रशांत माहेश्वरी, अधिष्ठाता विज्ञान व तंत्रज्ञान विद्याशाखा, व संचालक, बहु-सुविधा संगणक केंद्र

राष्ट्रसंत तुकडोजी महाराज  
नागपूर विद्यापीठ, नागपूर.

  
(श्री. संजय भोयर)





**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY**

**\* Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017)**

**Direction No. 25 of 2022.**

**ADMISSION AND EXAMINATIONS LEADING TO THE AWARD OF DEGREE OF BACHELOR OF PHARMACY (SEMESTER PATTERN)(CREDIT AND GRADE BASED SYSTEM) (4 YEARS COURSE) DIRECTION, 2022.**

**Whereas,** The Maharashtra Public Universities Act, 2016 (hereinafter 'Act') (VI of 2017) has come into force from 1<sup>st</sup> March 2017 and the same has been made applicable to Rashtrasant Tukadoji Maharaj Nagpur University (hereinafter "the University");

**AND**

**Whereas,** the University has issued Direction No. 15 of 2017 dealing with the composition of the four faculties created by the Act, where under the existing different faculties of the University have been merged into the four new faculties created by the Act, by which the subjects of Pharmaceutical Sciences have been included in the faculty of Science and Technology;

**AND**

**Whereas,** the University has issued Direction No. 10 of 2019 prescribing "conditions for conduct of undergraduate and post graduate examinations based on credit based/choice based credit system, in all faculties";

**AND**

**Whereas,** the Pharmacy Council of India (herein after PCI), the apical and regulatory body for regulating the higher education in pharmaceutical sciences, has framed the Bachelor of Pharmacy Course Regulations, 2014 prescribing the structure of the Bachelor of Pharmacy Course, which is binding on all Universities in India, offering the said course;

**AND**

**Whereas,** the Special task committees in Pharmaceutical Sciences in its meetings held on 18<sup>th</sup> July 2017 considered and accepted the scheme of subjects, syllabi and scheme of examinations of the Bachelor of Pharmacy course prescribed by Pharmacy Council of India

and resolved to implement it ,as per regulation 6 & 8 of Bachelor of Pharmacy ( B. Pharm)  
Course Regulation , 2014 from academic session 2017-2018;

AND

**Whereas**, Direction No. 26 of 2021 was issued to incorporate the decisions of BOS regarding calculation of CGPA etc. in the Direction no. 16/2021, but the said Direction had lapsed by virtue of the provisions of the proviso to section 12 (8) of the Act (VI of 2017) necessitating the issuance of a fresh Direction incorporating the provisions of Direction no. 26/2021;

Now, therefore, I, Dr. Subhash R. Chaudhari, Vice- Chancellor, Rashtasant Tukadoji Maharaj Nagpur University, Nagpur, being satisfied with the exigency for issuing the Direction, in exercise of powers conferred upon me under provision of section 12(8) of the Act, do here by issue following Directions;

1. This direction shall be called **ADMISSION AND EXAMINATIONS LEADING TO THE AWARD OF DEGREE OF BACHELOR OF PHARMACY (SEMESTER PATTERN) (CREDIT AND GRADE BASED SYSTEM) (4 YEARS COURSE) DIRECTION, 2022.**
2. This direction shall come into force from the date of its issuance. However, all the actions taken in the lapsed Direction shall be considered to be taken under the authority of this Direction.
3. **Definitions:-**In this direction, unless the context otherwise requires:-
  - a. **"Academic Council"** means Academic Council of Rashtasant Tukadoji Maharaj Nagpur University
  - b. **"ATKT"** means " Allowed to Keep Term" in the higher semester, as per the rules herein
  - c. **"Board of Studies"** means Board of Studies of the University in Pharmaceutical Sciences.
  - d. **"Competent Authority"** (for admission purpose) means an "Authority" established or assigned the duty to regulate admissions in the course by the Government of Maharashtra.
  - e. **"Credit"** means the unit by which the course work is measured. In this Direction one credit means 1 hour of teaching work or 2 hours of practical work per week for 15 weeks in a Semester
  - f. **"Cumulative Grade Point Average (CGPA)"** refers to the cumulative Grade Point Average weighted across all semesters of the course i.e. Semester I to VIII



- g. **"Degree"** means Graduate in Pharmacy.
- h. **"Fees"** means the fees prescribed by the University/ Shikshan Shulk Samiti of Government of Maharashtra for the Graduate Programme in Pharmacy, from time to time.
- i. **"Grade Letter"** is an index to indicate the performance of a student in a particular course (Paper). It is the transformation of actual marks secured by a student in a course/paper. Grade letter are O, A, B, C, D, E, F, AB.
- j. **"Grade Point"** is the weightage allotted to each grade letter depending on the range of marks awarded in a course/paper.
- k. **"Graduate Programme"** means Degree course in Pharmacy
- l. **"New Course"** means the B.Pharm course governed by this Direction.
- m. **"Old Course"** means the B.Pharm course governed by Direction No. 57 of 2016.
- n. **"Semester Grade Point Average (SGPA)"** refers to the performance of a student in a given semester. SGPA is based on the total credit points earned by a student in all the courses and the total number of credits assigned to the courses/papers in a semester
- o. **"Student"** means student admitted to Graduate programme in Pharmaceutical Sciences under this direction
- p. **"University"** means Rashtrasant Tukdoji Maharaj Nagpur University

**4. Admission:-**

- a. Admission to Graduate Programme in Pharmacy shall be governed by the admission authority of the Maharashtra State/ University.
- b. Admission to Graduate Programme in Pharmacy shall be on yearly basis for the particular academic session by paying prescribed fees.

**5. Eligibility for admission:-**

**A. First Year B. Pharm:-** An applicant for admission to the course shall have passed, not less than one academic year previously;

- i) the Diploma in Pharmacy examination from an institution recognized by the Pharmacy Council of India, with such minimum percentage of marks as may be prescribed by competent authority from time to time; Or

- ii) the 12th standard examination of the Maharashtra State Higher Secondary Education Board, with English, Physics, Chemistry and Biology or Mathematics as subjects of study, with such minimum percentage of marks as may be prescribed by the competent authority from time to time;

Or iii) an examination recognized as equivalent to any of the above qualifying examinations with such subjects and with such standards of attainments as may be prescribed by the competent authority from time to time.

**B. Lateral entry:-** A student who has passed the examination of Diploma in Pharmacy from a recognised institute with such minimum percentage of marks as may be prescribed by the competent authority from time to time shall be eligible for admission in the third semester of the course.

**6. Duration of Course:-**

Duration of the Graduate Programme in Pharmacy (B. Pharm) shall be of eight semesters (four academic years) as prescribed by Board of Studies of Pharmaceutical Sciences of the University.

**7. Medium of Instructions:** The medium of instructions shall be English language.

**8. Course Structure:-** The detail, semester wise, course structure shall be as given in tables I to VIII in the **Appendix-I** to this Direction. The scope of each subject shall be as prescribed by the Pharmacy Council of India from time to time

**9. Examinations and Declaration of Results:-**

- a. Examination of all subjects of all semesters of Graduate Programme in Pharmaceutical Sciences shall be conducted by the R.T.M. Nagpur University, except for the subjects for which examinations is required to be conducted by the subject experts at the college/Department level and the marks of which are required to be submitted to the University, as per the scheme of examination and the standard of examination given in tables I to VIII of the Appendix-II to this Direction.
- b. The fee for the examination shall be as prescribed by the Management Council of the University from time to time.
- c. An applicant for admission to an examination must have attended minimum 80% of the classes engaged in the institution
- d. A student shall be declared pass and eligible for getting grade in a course of B.Pharm.



programme if he/she secures at least 50% marks in that particular course, including internal assessment.

- e. In case a student fails to secure the minimum 50% marks in any theory or practical course 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 a Grade obtained by him/her on passing. Such student shall have the opportunity to improve his/her performance only once in the sessional examination component of the internal assessment. The reconduct of the sessional examination shall be completed before the commencement of the next end semester theory examination.
- f. There shall be no classification of successful examinees at First, Second and Third B. Pharm. Examinations.
- g. Division of successful examinees at the Final B. Pharm. Examinations shall be determined on the basis of aggregate CGPA obtained at the First to Final B. Pharm. Examinations (Semester I to VIII) taken together.
- h. Candidates admitted in First semester of B. Pharm. First year with PCMB group at qualifying examination, shall be exempted from appearing in Remedial Biology or Remedial Mathematics paper.
- i. CGPA equal to 6.00 to 7.49 shall be considered as equivalent to First Class and CGPA equal to 7.5 and above shall be considered as distinction, which shall be mentioned on Grade Card of VIII Semester as a foot note and all other successful examinees in the second class.
- j. As per point 7.2 of the syllabus, which states as “the student who are admitted through lateral entry, 52 credit points shall get transferred from their D. Pharm program and the percentage obtained in D. Pharm course shall be used to calculate grade point. Such students shall take additional remedial courses of ‘Communication skill’(Theory and Practical) and ‘Computer Application in Pharmacy ( Theory and Practical) equivalents 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.”

**Note: Credit, SGPA & CGPA Calculations for old courses and laterally admitted students will be done as per Annexure I and Annexure II.**

- k. A student who has availed 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. Thus there shall not be any **ODD BATCH** for any semester.

- l. An unsuccessful examinee may appear as an ex-student at a subsequent examination in a subject in which he/she has failed, on the payment of fresh fees. 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. A student shall have the opportunity to improve his/her performance only once in the sessional examination component of the internal assessment. The re-conduct of the sessional examination shall be completed before the commencement of next end semester theory examinations. He/Her sessional marks/internal marks in last examination may be retained for subsequent examination or he/she may opt for sessional /internal marks proportional to the marks he/she secures in the subsequent university examination. However, the candidate should have given declaration to that effect in his examination form.
  - m. Provisions of Ordinance No. 7-A relating to Condonation of Deficiency of Marks for passing an Examination shall apply to the examinations under this Ordinance
  - n. Notwithstanding anything to the contrary in this Ordinance no person shall be admitted to any of the examinations under this ordinance, if he has already passed the same examination or an equivalent examination of any other Statutory University.
10. The Head of the Department of Pharmaceutical Sciences/Principal shall maintain in his office, a complete record of the marks obtained by the candidates in the sessional examinations. He shall, not less than 15 days before the commencement of the examination, send to the Director, Board of Examinations and Evaluations of the University, in a sealed cover, the final marks in sessional examinations obtained by very applicant.
  11. Notwithstanding anything to the contrary in this Ordinance the Degree of Bachelor of Pharmacy shall not be conferred upon a person unless he/she has undergone a Practical Training for at least 150 hours spread over four weeks in a Pharmaceutical Industry/Hospital, after Semester – VI and before the commencement of Semester – VII, and has submitted report of such work being satisfactorily completed, duly certified and signed by the authority of training organization to the head of the institute.
  12. Successful examinees at the First B. Pharm., Second B. Pharm., and Third B. Pharm. Examinations shall be entitled to receive a certificate signed by the Registrar and those successful at the Final B. Pharm. examination shall on payment of the prescribed fees receive a Degree, in the prescribed form, signed by the Vice-Chancellor.



13. ATKT Rules:

- I. The Second B. Pharm. Examination (Semester III and IV) student shall be eligible to carry forward all the courses of I, 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 I and II semesters are successfully completed.
- II. The Third B. Pharm. Examination (Semester V and VI), 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.
- III. The Final B. Pharm. Examination (Semester VII and VIII), 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.
- IV. A lateral entry candidate shall be eligible to carry forward all the courses of III, IV and V semester examination till the VI semester examination. However, He/she shall not be eligible to attend the course of VII semester until all the courses of III and IV semester are successfully completed.
- V. A lateral entry candidate shall be eligible to carry forward all the courses of V, VI and VII semester till the VIII semester examination. However, He/she shall not be eligible to get the course completion certificate until all the courses of III, IV, V and VI semester are successfully completed.

14. **Rules of Absorption:-**

Students successful in the first year (I and II semesters) or second year (III and IV semesters) or third year ( V and VI semesters) of the old B. Pharm course examinations may be admitted to the next higher class of new course B.Pharm i.e III semester, V semester or VII semester as the case may be. Such students will have to clear the backlog of the earlier semesters of the old course within five attempts. On failure to clear the backlog within the stipulated attempts he/she shall be declared to be unfit for the course and he/she will not be allowed to appear further in any examination of the course.



15. **Interpretation and Administration:-**

In the event of any doubt or difficulty in interpreting the rules hereunder the Dean Faculty of Science and Technology shall have the jurisdiction to suggest the solution, in consultation with the Chairman, Board of Studies in Pharmaceutical Sciences.



( Dr. Subhash R. Chaudhari)  
Vice-Chancellor

Nagpur

Date: 01-7-2022



## ANNEXURE I

### CREDIT, SGPA AND CGPA CALCULATIONS FOR OLD COURSES AND LATERALLY ADMITTED STUDENTS

#### 1. Lateral entry students admitted to CGBS (PCI) course.

The students who are admitted through lateral entry, 52 credit points shall get transferred from their D. Pharm program. students shall take additional remedial courses of 'Communication skill' (Theory and Practical) and 'Computer Application in Pharmacy' (Theory and Practical) equivalents 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.

A separate marksheet shall be generated for Ist semester and IInd semester for the above credit points and result shall be based on 154 credit points from semester III to semester VIII and 07 credit points of Ist and II semester (total 161 credit points).

In the marksheet, note shall be written as "52 credit points are transferred from Diploma in Pharmacy program and the total credits earned by the student are 213."

#### 2. Lateral entry students admitted to CBS course.

The students who are admitted through lateral entry, 52 credit points shall get transferred from their D. Pharm program. In addition 4 credit points be transferred against their Ist semester subject (communication skills) since in old course this subject was not mandatory.

A separate marksheet shall be generated for IInd semester for the subject Statistics and computer applications for 3 credit points (as applicable in CBS program) and result shall be based on 154 credit points from semester III to semester VIII and 03 credit points of II semester (total 157 credit points).

In the marksheet, note shall be written as "52 credit points are transferred from Diploma in Pharmacy program in addition to 4 credits as mentioned above and the total credits earned by the student are 213."

#### 3. CBS program students admitted to CGBS (PCI) program

In CBS pattern old course all semesters were having 28 credit points. SGPA of applicable semesters (CBS) shall be used as such for calculating GPV of respective semesters using credits of CGBS course and this GPV shall be termed as GPV<sup>CN</sup>, from which further SGPA of each semester of CGBS program shall be calculated.

In the marksheet note should be written as : CN means Converted and the total credits earned by the student are 211."

#### 4. Annual pattern program students admitted to CGBS (PCI) program.

For annual pattern students, credit allocation for the scheme for each year will be as shown in Annexure II. SGPA will be calculated as per the credit allocation shown in the scheme as mentioned in annexure II.

CGBS- Credit and Grade Based System

CBS- Credit Based System

SGPA- Semester Grade Point Average.

CGPA- Cumulative Grade Point Average

GPV- Grade Point Value

GPV<sup>CN</sup>—GPV Converted

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ANNEXURE II  
RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

First examination for the Degree of Bachelor of Pharmacy  
(Four Year Integrated Course)

Sr. No.	Subject	Maximum Marks			Minimum Marks for passing	Time in Houjrs allowed for Exam.	Credits
		Sessi onal	Paper or Practical	Total			
	THEORY PAPERS:						
IT-1	Pharmaceutics-I (General & Dispensing)	20	80	100	45	3	6
IT-2	Pharmaceutical Chemistry-I (Organic)	20	80	100	45	3	6
IT-3	Pharmaceutical Chemistry-II (Inorganic)	20	80	100	45	3	6
IT-4	Pharmaceutical Biochemistry	20	80	100	45	3	6
IT-5	Pharmacology-I (Physiology, Anatomy & Health Education)	20	80	100	45	3	6
IT-6	Pharmacognosy & Phytochemistry-I	20	80	100	45	3	6
IT-7	Statistics & Computer Application in Pharmacy	20	80	100	45	3	6
	PRACTICAL						
IP-1	Pharmaceutics – I	20	80	100	50	6	3
IP-2	Pharmaceutical Chemistry – I (Organic)	20	80	100	50	6	3
IP-3	Pharmaceutical Chemistry – II (Inorganic)	20	80	100	50	6	3
IP-4	Pharmacology – I	20	80	100	50	4	3
IP-5	Pharmacognosy & Phytochemistry-I	20	80	100	50	4	3

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RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

Second examination for the Degree of Bachelor of Pharmacy  
(Four Year Integrated Course)

Sr. No.	Subject	Maximum Marks			Minimum Marks for passing	Time in Houjrs allowed for Exam.	Credits
		Sessi onal	Paper or Practical	Total			
	THEORY PAPERS:						
2T-1	Pharmaceutics-II (Physical)	20	80	100	45	3	6
2T-2	Pharmaceutics-III (Engineering)	20	80	100	45	3	6
2T-3	Pharmaceutical Chemistry-III (organic)	20	80	100	45	3	6
2T-4	Pharmaceutical Analysis-I	20	80	100	45	3	6
2T-5	Pharmacology-II	20	80	100	45	3	6
2T-6	Pharmaceutical Jurisprudence and Regulatory Affairs	20	80	100	45	3	6
2T-7	Biophysics & Molecular Biology	20	80	100	45	3	6
	PRACTICAL						
2P-1	Pharmaceutics - II (Physical)	20	80	100	50	6	3
2P-2	Pharmaceutics - III (Engineering)	20	80	100	50	6	3
2P-3	Pharmaceutical Chemistry - III (organic)	20	80	100	50	6	3
2P-4	Pharmaceutical Analysis-I	20	80	100	50	6	3
2P-5	Pharmacology - II	20	80	100	50	4	3

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RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

Third examination for the Degree of Bachelor of Pharmacy  
(Four Year Integrated Course)

Sr. No.	Subject	Maximum Marks			Minimum Marks for passing	Time in Houjrs allowed for Exam.	Credits
		Sessi onal	Paper or Practical	Total			
	<b>THEORY PAPERS:</b>						
3T-1	Dosage Form Technology-I	20	80	100	45	3	6
3T-2	Pharmaceutical Microbiology and Immunology	20	80	100	45	3	6
3T-3	Pharmaceutical Medicinal Chemistry-I	20	80	100	45	3	6
3T-4	Pharmaceutical Analysis-II	20	80	100	45	3	6
3T-5	Pharmacology-III	20	80	100	45	3	6
3T-6	Pharmacognosy & Phytochemistry-II	20	80	100	45	3	6
3T-7	Pharmacy Practices and Management	20	80	100	45	3	6
	<b>PRACTICAL</b>						
3P-1	Dosage Form Technology-I	20	80	100	50	6	3
3P-2	Pharmaceutical Microbiology and Immunology	20	80	100	50	4+2 (on next day)	3
3P-3	Pharmaceutical Analysis-II	20	80	100	50	6	3
3P-4	Pharmacology-III	20	80	100	50	4	3
3P-5	Pharmacognosy & Phytochemistry-II	20	80	100	50	4	3

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# APPENDIX I

**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
<b>Total</b>		<b>32/34<sup>s</sup>/36<sup>#</sup></b>	<b>4</b>	<b>27/29<sup>s</sup>/30<sup>#</sup></b>

\*Applicable ONLY for the students who have studied Mathematics / Physics / Chemistry at HSC and 00<sup>#</sup> appearing for Remedial Biology (RB) course.

<sup>s</sup>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)

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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
<b>Total</b>		<b>32</b>	<b>4</b>	<b>29</b>

\*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
BP 308P	Pharmaceutical Engineering Practical	4	-	2
<b>Total</b>		<b>28</b>	<b>4</b>	<b>24</b>

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
<b>Total</b>		<b>31</b>	<b>5</b>	<b>28</b>

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 I Theory	3	1	4
BP503T	Pharmacology II Theory	3	1	4
BP504T	Pharmacognosy and Phytochemistry II Theory	3	1	4
BP505T	Pharmaceutical Jurisprudence Theory	3	1	4
BP506T	Industrial Pharmacy I Practical	4	-	2
BP507P	Pharmacology II Practical	4	-	2
BP508P	Pharmacognosy and Phytochemistry II Practical	4	-	2
<b>Total</b>		<b>27</b>	<b>5</b>	<b>26</b>






**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
<b>Total</b>		<b>30</b>	<b>6</b>	<b>30</b>

**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
<b>Total</b>		<b>28</b>	<b>4</b>	<b>24</b>

\* 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	Pharmacological Screening Methods			
BP811ET	Advanced Instrumentation Techniques			
BP812ET	Dietary Supplements and Nutraceuticals			
BP813ET	Pharmaceutical Product Development	12	-	6
BP814ET	Elective from Skill Pack/Modules of LSSSDC			
BP815PW	Project Work			
TOTAL		24	4	22

\* : Available for students taking admission from AY 2021-22 only

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Semester wise credits distribution

Semester	Credit Points
I	27/29 <sup>§</sup> /30 <sup>#</sup>
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	211/ 213 <sup>§</sup> /214 <sup>#</sup>

\* 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.

<sup>§</sup>Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics course.

<sup>#</sup>Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology course

As per the Pharmacy Council of India's circular ref no.14-260/2014-PCI/4486 dated 30 September 2020, the student/institution may choose one of the elective subjects from the Skill pack/modules of Life Sciences Sector Skill Development Council (LSSSDC) as their elective subject in B.Pharm (Semester VIII) curriculum.

The university shall give necessary credit for the same in the award of marks and as a requirement fulfilled as against the elective subject to be studied by the student for the award of the Degree of Bachelor of Pharmacy.

The student has the choice to choose both the elective subjects from the already prescribed list of elective subjects by the PCI or choose one elective subject from the existing prescribed list of elective subjects of B. Pharm programme by the PCI and another suitable (second) elective from list of **Skill Pack/Modules of LSSSDC from time to time.**

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# APPENDIX II

## Schemes for internal assessments and end semester examinations semester wise

Table-I: 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	10	15	1 Hr	25	75	3 Hrs	100	
BP105T	Communication skills Theory *	5	10	1 Hr	15	35	1.5 Hrs	50	
BP106RBT BP106RMT	Remedial Biology/ Mathematics Theory*	5	10	1 Hr	15	35	1.5 Hrs	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	2 Hrs	25	



Total	70/75 <sup>s</sup> /80 <sup>#</sup>	115/125 <sup>s</sup> /130 <sup>#</sup>	23/24 <sup>s</sup> /26 <sup>#</sup> Hrs	185/200 <sup>s</sup> /210 <sup>#</sup>	490/525 <sup>s</sup> / 540 <sup>#</sup>	31.5/33 <sup>s</sup> / 35 <sup>#</sup> Hrs	675/725 <sup>s</sup> / 750 <sup>#</sup>
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# Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB) course. s

\* Non University Examination(NUE)

**TABLE-II: 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

\* The subject experts at college level shall conduct examinations

**TABLE-III: 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 I-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	

**TABLE-IV: 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 – and Phytochemistry 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 and Phytochemistry – I Practical	5	10	4 Hrs	15	35	4 Hrs	50
Total		70	115	21 Hrs	185	515	31 Hrs	700

**TABLE-V: 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 – and Phyto chemistry 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 and Phytochemistry II- Practical	5	10	4 Hr	15	35	4 Hrs	50
Total		65	105	17 Hr	170	480	27 Hrs	650

**TABLE-VI: Semester- VI**

Course code	Name of the course	Internal Assessment				End Semester Exams		
		Continuous Mode	Sessional Exams		Total	Marks	Duration	Total Marks
			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



**TABLE-VII: 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 II 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	
BP705 P	Instrumental Methods of Analysis _ Practical	5	10	4 Hrs	15	35	4 Hrs	50	
BP706 PS	Practice School*	25	-	-	25	125	5 Hrs	150	
	Total	70	70	8Hrs	140	460	21 Hrs	600	

\* The subject experts at college level shall conduct examinations

\* The subject experts at college level shall conduct examinations

TABLE-VIII: Semester- VIII

Course Code	Name of the Course	Internal Assessment				End Semester Exam		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP801T	Biostatistics and Research Methodology	10	15	1 Hrs	25	75	3 Hrs	100
BP802T	Social and Preventive Pharmacy	10	15	1 Hrs	25	75	3 Hrs	100
BP803ET	Pharma Marketing Management							
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	10+10=20	15+15=30	1+1=2 Hrs	25+25=50	75+75=150	3+3=6 Hrs	100+100=200
BP810ET	Pharmacological screening methods							
BP811ET	Advanced Instrumentation Techniques							
BP812ET	Dietary Supplements and Nutraceuticals							
BP813ET	Pharmaceutical Product Development							
BP814ET	Elective from Skill Pack/Modules of LSSSDC							
BP815PW	Project Work	-	-	-	-	150	4 Hrs	150
Total		40	60	4 Hrs	100	450	16 Hrs	550

\* Available only for students taking admission from AY 2021-22

*Signature*