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Pt 3 of Ex 1.1

**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 16 of 2021.

**ADMISSION AND EXAMINATIONS LEADING TO THE AWARD OF DEGREE OF BACHELOR OF PHARMACY (SEMESTER PATTERN)(CREDIT AND GRADE BASED SYSTEM) (4 YEARS COURSE) DIRECTION, 2021.**

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

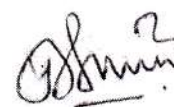

Whereas, the Pharmacy Council of India (herein after PCI), the apical and regulatory body for regulating the higher education in pharmaceutical sciences, has framed the Bachelor of Pharmacy Course Regulations, 2014 prescribing the structure of the Bachelor of Pharmacy Course, which is binding on all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

  
Dr. A. M. Itadwar  
Principal

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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			
BP814ET	Elective from Skill Pack/Modules of LSSSDC			
BP815PW	Project Work	12	-	6
TOTAL		24	4	22

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**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**Direction No. 30 of 2017**

**EXAMINATIONS LEADING TO THE DEGREE OF BACHELOR OF PHARMACY  
(SEMESTER PATTERN) ( CREDIT AND GRADE BASED SYSTEM) (4 YEARS COURSE),  
DIRECTION, 2017**

WHEREAS, Maharashtra Public Universities Act, 2016 (VI of 2017) ( the Act) has come into force with effect from 1<sup>st</sup> March 2017;

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 Committee in Pharmaceutical Sciences in its meeting held on 18<sup>th</sup> July 2017 accepted the syllabi of the Bachelor of Pharmacy course prescribed by Pharmacy Council of India and resolved to implement it, as per regulations 6&8 of Bachelor of Pharmacy (B. Pharm) Course regulations,2014 from the academic session 2017-18;

AND

WHEREAS, the Dean of the Faculty of Science and Technology considered and approved the proposal of the Special Task Committee in Pharmaceutical Sciences, in the Faculty of Science and Technology, and recommended to the Vice-Chancellor to accept the syllabus and the Scheme of examinations for the course of Bachelor of Pharmacy under section 12 (8)of the Act on behalf of the Academic Council and the Management council;

AND,

WHEREAS, it is necessary to make an Ordinance for the purpose of prescribing the revised scheme of examination for the course of Bachelor of Pharmacy, as per the provisions of the Act;

AND

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WHEREAS, Ordinance making is a time consuming process and there is an exigency to regulate the matter by issuing a Direction:


Now, therefore, I, Dr. Pramod G. Yeole, the Acting Vice- Chancellor of Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur, being satisfied about the exigency, in exercise of powers vested in me under section 12(8) of the Act do hereby issue the following Direction ;

1. This direction shall be called EXAMINATIONS LEADING TO THE DEGREE OF BACHELOR OF PHARMACY (SEMESTER PATTERN, CHOICE BASED CREDIT SYSTEM) (4 YEARS COURSE), DIRECTION, 2017

2. This direction shall apply from the Academic Session 2017-2018.

3. **Definitions:-**In this direction, unless the context otherwise requires:-

- a. **“University”** means Rashtrasant Tukdoji Maharaj Nagpur University
- b. **“Graduate Programme”** means Degree course in Pharmacy
- c. **“Student”** means student admitted to Graduate programme in Pharmaceutical Sciences under this direction
- d. **“Degree”** means Graduate in Pharmacy
- e. **“Board of studies”** means Board of Studies of the University in Pharmaceutical Sciences.
- f. **“Academic Council”** means Academic Council of Rashtrasant Tukdoji Maharaj Nagpur University
- g. **“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.
- h. **“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
- 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. **“Credit Points”** refer to the product of No. of credits multiplied by the Grade Point for a given course/paper.

  
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- l. "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
- m. "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
- n. "ATKT" means "Allowed to Keep Term" in the higher semester, as per the rules herein
- o. "Competent Authority" (for admission purpose) means an "Authority" established or assigned the duty to regulate admissions in the course by the Government of Maharashtra.
- p. "Old Course" means the B.Pharm course governed by Direction No. 57 of 2016.
- q. "New Course" means the B.Pharm course governed by this Direction.

#### 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.

  
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### 3. 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.

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

5. **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


### 6. 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.

  
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- 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 which shall be mentioned on Grade Card of VIII Semester as a foot note and all other successful examinees in the second class.
- j. CGPA equal to 7.5 and above shall be considered as distinction in that particular subject  
Explanation: Distinction shall be awarded from First to Final B. Pharm. Examinations separately.
- k. An unsuccessful examinee at the First (I and II semester), Second (III and IV semester) or Third B. Pharm. (V and VI semester) Examination who fails to secure the prescribed minimum marks in any of the theory papers or practical examination may, at his option, be admitted to a subsequent examination in that paper or practical only on payment of a fresh fee. An examinee under this provision shall be allowed to keep terms in the next higher class. He may take both examinations simultaneously, but his result at the higher examination shall not be declared unless he is declared successful at the lower examination.
- l. 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.
- m. 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.

  
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- n. 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
- o. 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.
6. 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 seasonal 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 seasonal examinations obtained by every applicant.
7. 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.
8. 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.
9. **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

  
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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.

#### **10. Rules of Absorbtion:-**

Students successful in the first year (I and II semesters) or second year (IIIrd and IVth semesters) or third year ( Vth and VIth semesters) of the old B. Pharm course examinations may be admitted to the next higher class of new course B.Pharm i.e IIIrd semester, Vth semester or VIIth 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.

#### **11. 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.

#### **12. Repeal**

With the issuance of this Direction, the Direction No 57 of 2016 (Credit and Grade Based Semester pattern), shall stand repealed.

Sd/-

Nagpur

**Dr. Siddharthavinayak P. Kane**

Date: 26.10.2017

Vice-Chancellor



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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	Communications skills Theory*	2	-	2
BP106RBT	Remedial Biology/	2	-	2
BP106RMT	Remedial Mathematics Theory*			
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	Communications 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>/3</b>

\*Applicable ONLY for the students who have studied Mathematics / Physics / Chemistry at HSC and 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>

*(Handwritten Signature)*

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**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	MedicinalChemistryI – Theory	3	1	4
BP403T	PhysicalPharmaceuticsII Theory	3	1	4
BP404T	PharmacologyI Theory	3	1	4
BP405T	Pharmacognosy and Phytochemistry I–Theory	3	1	4
BP406P	MedicinalChemistryI – Practical	4	-	2
BP407P	PhysicalPharmaceuticsII – Practical	4	-	2
BP408P	PharmacologyI Practical	4	-	2
BP409P	Pharmacognosy andPhytochemistryI 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	MedicinalChemistryII Theory	3	1	4
BP502T	Formulative Pharmacy Theory	3	1	4
BP503T	PharmacologyII Theory	3	1	4
BP504T	Pharmacognosy and Phytochemistry II Theory	3	1	4
BP505T	PharmaceuticalJurisprudence Theory	3	1	4
BP506P	FormulativePharmacy Practical	4	-	2
BP507P	PharmacologyII Practical	4	-	2
BP508P	Pharmacognosy and Phytochemistry II Practical	4	-	2
<b>Total</b>		<b>27</b>	<b>5</b>	<b>26</b>



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**Table-VI: Course of study for semester VI**

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP601T	MedicinalChemistryIII Theory	3	1	4
BP602T	PharmacologyIII Theory	3	1	4
BP603T	HerbalDrugTechnology Theory	3	1	4
BP604T	Biopharmaceutics and Pharmacokinetics Theory	3	1	4
BP605T	PharmaceuticalBiotechnology Theory	3	1	4
BP606T	Quality Assurance Theory	3	1	4
BP607P	MedicinalchemistryIII - Practical	4	-	2
BP608P	PharmacologyIII Practical	4	-	2
BP609P	HerbalDrugTechnology - 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 MethodsofAnalysis Theory	3	1	4
BP702T	IndustrialPharmacy Theory	3	1	4
BP703T	PharmacyPractice - Theory	3	1	4
BP704T	Novel DrugDeliverySystem - Theory	3	1	4
BP705P	Instrumental MethodsofAnalysis Practical	4	-	2
BP706PS	Practice School*	12	-	6
<b>Total</b>		<b>28</b>	<b>5</b>	<b>24</b>

\* Non University Examination (NUE)

  
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**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	Pharmaceutical Marketing	3 + 3 = 6	1 + 1 = 2	4 + 4 = 8
BP804ET	Pharmaceutical Regulatory Science			
BP805ET	Pharmacovigilance			
BP806ET	Quality Control and Standardizations of Herbals			
BP807ET	Computer Aided Drug Design			
BP808ET	Cell and Molecular Biology			
BP809ET	Cosmetic Science			
BP810ET	Experimental Pharmacology			
BP811ET	Advanced Instrumentation Techniques			
BP812PW	Project Work	12	-	6
<b>Total</b>		<b>24</b>	<b>4</b>	<b>22</b>


**Semester wise credits distribution**

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

\* 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>s</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.

  
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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
<b>Total</b>		<b>70/75<sup>§</sup>/80<sup>#</sup></b>	<b>115/125<sup>§</sup>/130<sup>#</sup></b>	<b>23/24<sup>§</sup>/26<sup>#</sup></b> Hrs	<b>185/200<sup>§</sup>/210<sup>#</sup></b>	<b>490/525<sup>§</sup>/ 540<sup>#</sup></b>	<b>31.5/33<sup>§</sup>/ 35<sup>#</sup> Hrs</b>	<b>675/725<sup>§</sup>/ 750<sup>#</sup></b>

\*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.

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\* 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
<b>Total</b>		<b>80</b>	<b>125</b>	<b>20 Hrs</b>	<b>205</b>	<b>520</b>	<b>30 Hrs</b>	<b>725</b>

\* The subject experts at college level shall conduct examinations


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**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

  
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**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 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

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**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	Formulative Pharmacy – 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	Formulative Pharmacy – 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

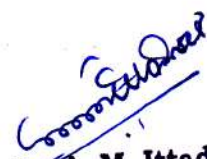


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**TABLE-VI: Semester- VI**

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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**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 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

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**TABLE-VIII: 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 Standardizations 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							
<b>Total</b>		<b>40</b>	<b>60</b>	<b>4 Hrs</b>	<b>100</b>	<b>450</b>	<b>16 Hrs</b>	<b>550</b>

  
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