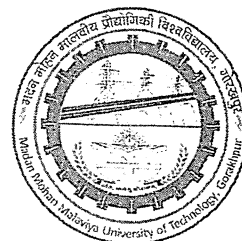


ORDINANCES

Bachelor of Pharmacy (2021-2022)



MADAN MOHAN MALAVIYA
UNIVERSITY OF TECHNOLOGY
GORAKHPUR-273010 (UP), INDIA

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Approved and modified in first, thirteenth, fifteenth, seventeenth, eighteenth, twentieth, twenty-first & twenty-second meetings of the **Board of Management** held on ----- respectively,

AND

In first, third, fourth, eighth, tenth, eleventh, twelfth, fourteenth, fifteenth & sixteenth meetings of the **Academic Council** held on ----- respectively.

F 3/5/22

PP Rank

Con/Head

(Signature)

**MADAN MOHAN MALAVIYA UNIVERSITY OF TECHNOLOGY
GORAKHPUR (UP) - INDIA**

Second Ordinances

In pursuance of the provisions of section 31 of The Uttar Pradesh Madan Mohan Malaviya University of Technology Act, 2013, these are the second Ordinances for Madan Mohan Malaviya University of Technology, Gorakhpur:

The Uttar Pradesh Madan Mohan Malaviya University of Technology

FIRST ORDINANCES, 2021

Short title, commencement and definitions Sec. 31 (1)

1. These Ordinances may be called the Madan Mohan Malaviya University of Technology, Gorakhpur First Ordinances, 2021.
2. They shall come into force in successive academic session as applicable.
3. Anything contained in ordinances, regulations and rules made there under in violation to provisions of Act shall be void and the provisions of Act shall prevail.
4. In these Ordinances, unless the context otherwise requires
 - (a) 'Act' means the Uttar Pradesh Madan Mohan Malaviya University of Technology Act, 2013 as amended from time to time.
 - (b) 'Section' means a section of the Act.
 - (c) 'University' means the Madan Mohan Malaviya University of Technology, Gorakhpur.
5. Words and expressions used herein but not defined and defined in the Act shall have the same meaning as assigned to them in the Act.
6. **UNDER SECTION 31(1)(a) - The admission of students, the courses of study and the fees therefor, the qualifications pertaining to the award of degrees, diplomas, certificates and other academic distinctions, the conditions for the grant of fellowships and awards and the like;**
 - (a) University may start the other Degree, Diploma, Certificate programmes and other academic distinctions as deemed necessary for fulfilling its objectives and the Ordinances for the same shall be as prescribed by Academic Council and Board of Management.
 - (b) Courses of Study shall be as prescribed by the Academic Council and approved by the Board of Management.
 - (c) Fellowships and Awards shall be instituted as per the requirement with the approval of Vice Chancellor under intimation to the Academic Council and the Board of Management.
 - (d) Ordinance for Bachelor of Pharmacy (B.Pharm.) and Ordinances for other programmes as started from time to time shall be as prescribed by the Academic Council and the Board of Management.

6.1 ORDINANCES FOR B.Pharm. PROGRAMMES FROM ACADEMIC SESSION 2021-22

6.1.1 ADMISSION

- (a) University offers full time B.Pharm. Degree.
- (b) Admission to B.Pharm. first year in Semester I and lateral admission in B.Pharm. second year in semester III (for D. Pharm. holder candidates only) will be made as per the rules prescribed by the University from time to time.
- (c) The reservation policy as prescribed by U.P. State Government or its directions regarding admission from time to time shall be adhered in the admission.
- (d) The selection will be based on the merit of the candidate in the admission process.
- (e) Admission on migration of a candidate from any other University/Institute based on Academic credit bank of Govt. of India and guidelines issued by Govt. of India/UP State Govt.

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- (f) If, at any time after admission, it is found that a candidate has not fulfilled all the requirements stipulated in the offer of admission or has committed some fraudulent act or gross misconduct at any stage then the University reserves the right to revoke the admission of the candidate.

6.1.2 ELIGIBILITY FOR ADMISSION

6.1.2.1 For B. Pharm. First Year

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

6.1.2.2 For B.Pharm. Second Year through Lateral Entry Scheme

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

6.1.2.3 University has the power to repeal and modify the eligibility criteria for admission.

6.1.3 PROGRAMME DURATION

- (a) The duration of the B. Pharm. programme for the candidates admitted in semester I will be four academic years (eight semesters).
- (b) The duration of the B. Pharm. programme for the candidates admitted in semester III will be three academic years (six semesters).
- (c) There are two regular semesters in a year. The semester that begins in July (*July to November/December*) is known as the *Odd Semester* and the semester that begins in December/January (*December/January to May*) is known as the *Even Semester*. Academic session may be scheduled in the summer season as well.
- (d) The duration of each semester will generally be 100 working days or as prescribed by the University from time to time.
- (e) The maximum time allowed for completion of the programme for the candidates admitted in semester I/semester III (for Diploma holders) shall be six/five years respectively, beyond which the admission of the candidate shall be automatically cancelled. The candidate will not be allowed to continue in the subsequent years of the programme, if the sufficient time period is not available for its completion in stipulated maximum duration.
- (f) The student may complete the programme at a slower pace by taking more time but not more than prescribed maximum duration as per the provision of **Clause. 6.1.11.**

6.1.4 CURRICULUM STRUCTURE OF THE PROGRAMME

6.1.4.1 The University follows a specialized credit-based semester system. Every programme will have a specific curriculum for all semesters (semester I to semester VIII) with a syllabi consisting of theory, practical, project work etc., as given below and shall be in accordance with the prescribed syllabus. The courses shall be covered through lectures, tutorials, laboratory classes, seminar, industrial and practical training, project, tours etc. as prescribed by the University.

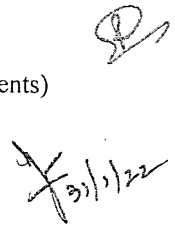
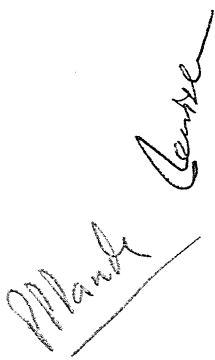
A. Core Courses (CC)

- (i) Basic Sciences & Maths (BSM)
- (ii) Engineering Fundamentals (EF)
- (iii) Department Core (DC)
- (iv) Management (M)
- (v) Humanities & Social Science Core (HSSC)
- (vi) Project (P)

B. Electives courses (EC)

- (i) Program Electives (PE)
- (ii) Open Electives (OE) (Other Departments)

C. Audit Courses (AC)

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Student need to registered for audit course in 2nd, 3rd, 4th, and 5th semester offered by other Engineering/Science/Humanities Department. All the Audit courses (AC) should have four units course content with one/two lectures per week as per the requirement of the students.

Seminar is credit requirement for the B. Pharm. Degree. Seminar is a course wherein under the guidance of a faculty member a student is expected to do an in-depth study in a specialized area by doing survey of published technical literature, understanding different aspects of the selected topic and arriving at a status report. While doing a seminar, the student is expected to critically analyze works of various authors/researchers, learn the investigation methodologies, study concepts, techniques and the results presented in these papers, and present a seminar report. It is mandatory to give a seminar presentation of stipulated duration before a panel constituted for the purpose by the department.

The duration for industrial/practical training of project based type preferably will be of six to eight weeks/50-65 days duration, and it can be carried out partially in the summers after IV-semester and remaining after VI semesters or fully after VI-semester. The training could be done either at the industry or at university/institute or in combination of industry and university/institute. If the industrial training is carried out by student in the university/institute, it must be society/commercial/industrial problem related minor project under the supervision of designated faculty supervisor of University/institute.

All the student should submit a report along with proof of completing the industrial/practical training and/or minor project report to the respective Head of Department for evaluation through a committee of faculty members constituted by the Head of Department.

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

- (a) 1 credit per lecture hour per week
- (b) 1 credit per tutorial hour per week
- (c) 1 credit per 2 hours laboratory/practice/project per week.

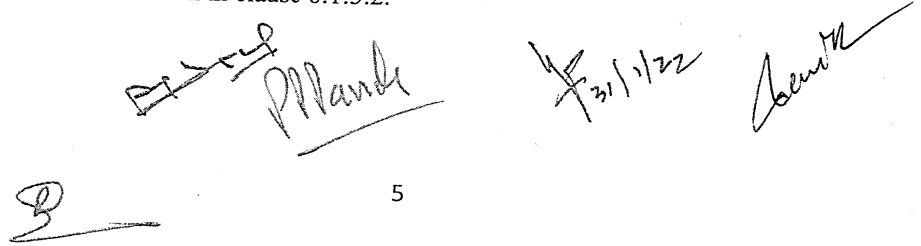
The minimum credit points required for award of a B. Pharm. degree is 210. These credits are divided into Theory courses, Tutorials, Practical, Practice School and Project over the duration of eight semesters. The credits are distributed semester-wise. Courses generally progress in sequences, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester-wise schedule of courses given in the syllabus.

The lateral entry students shall get 52 credit points transferred from their D.Pharm program. Such students shall take up additional remedial courses of 'BAS-03: Communication Skills' (Theory and Practical) and 'BCT-102: Computer Applications in Pharmacy' (Theory and Practical) equivalent to 3 and 4 credit points respectively, a total of 7 credit points to attain 59 credit points, the maximum of I and II semesters.

In addition to above, the students are required to complete Non-credits, Audit Courses (AC), Industrial Training, and Seminar

The dropped course will not be shown in the grade sheet and transcript of the student.

The University provides a facility to the students to earn credits from various government recognized online courses and programmes duly approved by Academic Council, and these earned credits will help them get relaxation of credits while considering minimum credit requirement under PE courses as laid down in clause 6.1.5.2.



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6.1.4.2 Overall Credit Structure

| Credit Courses | | | |
|---|--|--|---|
| Undergraduate Core (UC) | | Undergraduate Electives (UE) | |
| Category | Min. credits | Category | Min. credits |
| Basic Sciences & Maths (BSM) | 2 [#] | Program Electives (PE) | 8 |
| Engineering Fundamentals (EF) | 17 | Open Electives (OE) (Other Departments) | 3 |
| Department Core (DC) | 170/173 ^s | Humanities & Social Science Electives (HSSE) | -- |
| Management (M) | -- | | |
| Humanities & Social Science Core (HSSC) | 3 | | |
| Project (P) | 12 | | |
| Total | 202/204[#]/205^s | Total | 11 |
| | | Grand Total | 210/212[#]/213^s (min.) |
| Audit Courses | | | |
| Audit Courses (Other Departments) | | | 12 (min.) |
| Seminar | | | 3 |
| Industrial/Practical Training (IT) | | | 1 |
| | | Grand Total | 16 (min.) |

[#] applicable ONLY for the students who have Mathematics/Physics/Chemistry at HSC and appearing for Remedial Biology course

^s applicable ONLY for the students who have studies Physics/Chemistry/Botany/Zoology at HSC and appearing for Remedial Mathematics Course

Each student has to register for a set of courses as offered in each semester by paying the stipulated fees, which include tuition fee, examination fee, enrolment fee, development fee, insurance fee, degree fee, alumni fee, internet charges, hostel fee, mess advance, miscellaneous user charges etc. as applicable from time to time.

6.1.4.3 Credit transfer Policy

(a) Credit considerations for Online courses

If any student clears online courses recognized by Govt./University (like SWAYAM or courses offered by NPTEL through MOOCS mode, etc.) and that course is approved by Academic Council, then relaxation in minimum credits required for courses falling under undergraduate programme electives (UPE) shall be given to the students in final year as per guideline given below:

Four weeks course will enable students to earn 1-credit.

Eight weeks course will enable students to earn 2-credits.

Twelve weeks course will enable students to earn 3-credits.

Sixteen weeks (or one semester) course will enable students to earn 4-credits.

To get any relaxation in minimum credit requirement of UPE courses, student must submit the passing certificate of approved online courses, showing clearly the marks scored by them, just before the start of odd/even semesters of final year.

(b) Credit considerations for Swachh Bharat Abhiyaan

If any student participates in national government sponsored Swachchh Bharat Internship program of two months and achieves certificate on successful completion of it, he/she may get 2-credit relaxation in Audit course requirement

6.1.5 GRADING SYSTEM AND ASSESSMENT PROCEDURE

6.1.5.1 Grading System

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The academic performance evaluation of a student will be according to a Letter Grading system based on class performance of students. The Letter Grades and the corresponding Grade Points are as follows. Grades falling between A⁺ and D in different courses are called pass grades, while the students securing F grade will be treated fail in the course and shall have to re-register in the course in subsequent semesters or appear in Summer Term or repeat the semester as per provision of **Clause 6.1.8 & 6.1.10.2**.

| Letter Grade | Grade Points | Description |
|----------------|--------------|-------------------------|
| A ⁺ | 10 | Outstanding |
| A | 9 | Excellent |
| B ⁺ | 8 | Very Good |
| B | 7 | Good |
| C | 6 | Average |
| D | 5 | Below Average |
| F | 0 | Fail |
| U | - | Short Attendance |
| W | - | Withdrawal |
| I | - | Incomplete |
| AP | - | Audit Pass |
| AF | - | Audit Fail |
| S | - | Satisfactory Completion |
| Z | - | Course Continuation |

Grade Award System

| Grade | Grade Points | Marks (in %) |
|----------------|--------------|--------------|
| A ⁺ | 10 | 90-100 |
| A | 9 | 80-89 |
| B ⁺ | 8 | 70-79 |
| B | 7 | 60-69 |
| C | 6 | 50-59 |
| D | 5 | 40-49 |
| F | 0 | <40 |

The system of grading to be followed will be Absolute Grading System. The conversion formula for CGPA to Percentage marks is as follows:

$$CGPA * 10 = \% \text{ Marks}$$

6.1.5.2 Tests & Examinations

The Evaluation scheme for all categories of courses will be as follows:

| Category | L-T-P | Theory Examination | | | | | Practical Examination | | | Total (A+B) |
|----------------|-------|--------------------|----|-------------------------|------------|---------------|------------------------------|----------------|---------------|-------------|
| | | Minor Test | | Teacher assessment (TA) | Major Exam | Sub-Total (A) | Practical Internal Assesment | Practical Exam | Sub-Total (B) | |
| | | I | II | | | | | | | |
| 1 | L-T-P | 15 | 15 | 10 | 75 | 100 | 15 | 35 | 50 | 150 |
| 2 | L-T-0 | 15 | 15 | 10 | 75 | 100 | -- | -- | -- | 100 |
| 3 | L-0-0 | 15 | 15 | 10 | 75 | 100 | -- | -- | -- | 100 |
| 4 [#] | L-0-P | 15 | 15 | 10 | 50 | 75 | 10 | 15 | 25 | 100 |
| 5 | 0-0-P | -- | -- | -- | -- | -- | 15 | 35 | 50 | 50 |

applicable for L & P of each credit 2 or lower. Evaluation scheme of category 1 is applicable for other higher credit (>2) of category L-0-P.

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- Note:**
- 1) TA: includes quiz, tutorials, assignments, attendance etc.
 - 2) Exam Duration for Theory examination: Minor: 1 hour and Major: 3 Hours
 - 3) The syllabus for Minor Test-1 will be from Unit 1 & Unit 2 and Minor Test-2 will be from Unit 3 & Unit 4, respectively. However, the Major examination will be conducted from the entire syllabus of the course. Two minor exams shall be conducted for each theory / practical course as per the schedule fixed by the university. The average marks of two minor exams shall be computed for internal assessment.
 - 4) Exam Duration for Practical examination: Minor: 4 hours and Major: 4 Hours
 - 5) The theory and practical examinations shall comprise of continuous assessment throughout the semester in all courses and Major examination conducted by University at the end of the semester (November/December or April/May). The assessment of a course will be done on absolute marks basis. However, for the purpose of reporting the performance of a candidate, letter grades, each carrying certain points, will be awarded as per the range of total marks (out of 150/100/50) obtained by the candidate, as detailed given in 6.1.5.1. The rounding off shall be done on the higher side.

(a) Distribution of Marks for Project

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

| S. N. | Assessment Basis | Duration | Marks |
|-------|-------------------|----------|-------|
| 1. | Major Examination | 4 Hour | 150 |

(b) Distribution of Marks for Seminar

| S. N. | Assessment Basis | Marks |
|-------|---|-------|
| 1. | Quality of Material | 30 |
| 2. | Quality of Presentation | 30 |
| 3. | Quality & Extent of Response of Questions Asked | 20 |
| 4. | Participation in Other Seminars (Attendance) | 20 |

Any student securing less than 50 marks ('AF' grade) in seminar shall have to repeat the seminar in the same semester. This will be limited to only one chance.

c) Practice School

In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school declared by the program committee from time to time. At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages). Along with the exams of semester VII, the report submitted by the student, knowledge and skills acquired by the student through practice school shall be evaluated by the subject experts at college level and grade point shall be awarded.

| S. N. | Assessment Basis | Duration | Marks |
|-------|--------------------------------|----------|-------|
| 1. | Internal Continuous Assessment | -- | 25 |
| 2. | Major Examination | 5 Hours | 125 |

d) Audit Courses

| | | |
|-----|-----------------|--|
| 01. | Audit Pass (AP) | 40% and above |
| 02. | Audit Fail (AF) | Below 40% , candidate has to repeat the course |

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6.1.6 RE-REGISTRATION/CARRY OVER EXAMINATION

Re-register and carry over of failed courses:

- Students with F grade in any course due to detainment in examination (attendance is less than 80% aggregate and less than 80% in the course) and UFM penalty will be required to register in the course. Such students will have to attend the classes of that course on regular basis and appear in the minor and major examination to satisfy all the requirements mentioned in the ordinances for passing the course.
- Students with F grade in any course (other than above in a.) will be required to register for carry over examination (Major Examination and /or Minor Test) in the course. The carry over Major examination can be conducted during the semester and/or with regular examination. The students registered for carry over examination in the failed course appear in Minor Test for improvement, however it is to be intimated during registration for Carry Over examination.
- The grade obtained in the carryover examination will be lowered by one grade in that course but not below the D-grade, i.e., if a student obtains B⁺ grade in the carry over course the grade will be lowered to B for award. But if a student gets grade C or D only in carryover course will be awarded D grade.

S.N.19 EVALUATION OF PERFORMANCE

The performance of a student will be evaluated in terms of two indices, viz. the Semester Grade Point Average (SGPA) which is the Grade Point Average for a semester, and Cumulative Grade Point Average (CGPA) which is the Grade Point Average for all the completed semesters at any point in time considered cumulatively.

Points Secured in the Semester = \sum (Course Credits x Grade Point) for courses in which A⁺ to D grade has been obtained

Total Credits Registered in the Semester Excluding Audit Courses = \sum (Course credits) for courses in which A⁺ to D grade has been obtained

$$SGPA = \frac{\text{Points secured in the semester in all passed courses (A}^+ \text{ to D Grade)}}{\text{Total Credits registered in the semester excluding audit courses}}$$

The CGPA is calculated on the basis of all pass grades, except audit courses and courses in which S or Z grade is awarded/secured in all completed semesters.

Cumulative Points secured in All Passed Courses = \sum (Course Credits x Grade Point) for courses in which A⁺ to D grade is obtained

Cumulative Total Credits Excluding Audit Courses = \sum (Course credits) for courses in which A⁺ to D grade is obtained

$$CGPA = \frac{\text{Cumulative Points secured in all passed courses (A}^+ \text{ to D Grade)}}{\text{Cumulative total credits excluding audits courses}}$$

An example of these calculations is given below.

ODD Semester

| Course No. | Course Credits | Grade Awarded | Total Credits | Grade Point | Points Secured |
|------------|----------------|----------------|---------------|-------------|----------------|
| Column 1 | Column 2 | Column 3 | Column 4 | Column 5 | Column 6 |
| BPT-11 | 6 | B | 5 | 7 | 35 |
| BPT-12 | 6 | C | 4 | 6 | 24 |
| BPT-13 | 6 | A ⁺ | 4 | 10 | 40 |
| BPT-14 | 6 | B ⁺ | 2 | 8 | 16 |

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|--------------|-----------|----|-----------|---|------------|
| BAS-03 | 3 | D | 4 | 5 | 20 |
| BPT-15 | 3 | B | 5 | 7 | 35 |
| AC | 3 | AP | | | |
| Total | 30 | | 24 | | 170 |

Credits registered in the semester excluding audit courses (total of column 2) = 30

Total credits earned in the semester excluding audit courses (total of column 4) = 24

Points secured in this semester (total of column 6 for all passed courses) = 170

$$SGPA = \frac{\text{Points secured in the semester in all passed courses (A+ to D Grade)}}{\text{Total Credits registered in the semester excluding audit courses}} = \frac{170}{24} = 7.084$$

$$CGPA = \frac{\text{Cumulative Points secured in all passed courses (A+ to D Grade)}}{\text{Cumulative total credits, excluding audits courses}} = \frac{170}{24} = 7.084$$

Semester performance: SGPA = 7.084

Cumulative performance: CGPA = 7.084

EVEN Semester

| Course No. | Course Credits | Grade Awarded | Total Credits | Grade Point | Points Secured |
|--------------|----------------|---------------|---------------|-------------|----------------|
| Column 1 | Column 2 | Column 3 | Column 4 | Column 5 | Column 6 |
| BPT-16 | 6 | B+ | 5 | 8 | 40 |
| BPT-17 | 4 | A | 4 | 9 | 36 |
| BPT-18 | 6 | F | - | 0 | 0 |
| BPT-19 | 6 | B | 2 | 7 | 14 |
| BCT-101 | 3 | C | 4 | 6 | 24 |
| BCT-102 | 4 | A+ | 4 | 10 | 40 |
| XX158 (AC) | 3 | AP/AF | - | - | - |
| Total | 29 | | 19 | | 154 |

Credits registered in the semester excluding audit courses (total of column 2) = 29

Total credits earned in the semester excluding audit courses (total of column 4) = 19

Points secured in this semester (total of column 6 for all passed courses) = 154

Cumulative points in all passed courses = 170 (past semesters) + 154 (this sem.) = 324

Cumulative total credits registered = 30 (past semesters) + 29 (this sem.) = 59

$$SGPA^* = \frac{\text{Points secured in the semester in all passed courses (A+ to D Grade)}}{\text{Total Credits registered in the semester excluding audit courses}} = \frac{154}{29} = 5.310$$

$$CGPA^* = \frac{\text{Cumulative Points secured in all passed courses (A+ to D Grade)}}{\text{Cumulative total credits, excluding audits courses}} = \frac{170 + 154}{30 + 29} = 5.491$$

Semester performance: Tentative SGPA* = 5.310

Cumulative performance: Tentative CGPA* = 5.491

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When a student gets the grade 'F' in any course during a semester, the SGPA and the CGPA from that semester onwards will be tentatively calculated [SGPA* and CGPA*] taking only 'zero point' for each such 'F' grade. After the 'F' grade(s) has/have been substituted by better grades during subsequent semester or summer term, the SGPA and the CGPA of all the semesters, starting from the earliest semester in which the 'F' grade has been updated, will be recomputed and recorded to take this change of grade into account.

If the student (as mentioned in above example) registers the failed course in the Summer Term-20XX and clears it with "B" grade, its grade sheet will be :

Summer Term-20XX

| Course No. | Course Credits | Grade Awarded | Total Credits | Grade Point | Points Secured |
|------------|----------------|---------------|---------------|-------------|----------------|
| Column 1 | Column 2 | Column 3 | Column 4 | Column 5 | Column 6 |
| XX153 | 4 | B | 4 | 7 | 28 |

The revised grade sheet of even semester will now be recomputed as

EVEN Semester

| Course No. | Course Credits | Grade Awarded | Total Credits | Grade Point | Points Secured |
|--------------|----------------|----------------|---------------|-------------|----------------|
| Column 1 | Column 2 | Column 3 | Column 4 | Column 5 | Column 6 |
| BPT-16 | 5 | B ⁺ | 5 | 8 | 40 |
| BPT-17 | 4 | A | 4 | 9 | 36 |
| BPT-18 | 4 | B | 4 | 7 | 28 |
| BPT-19 | 2 | B | 2 | 7 | 14 |
| BCT-101 | 4 | C | 4 | 6 | 24 |
| BCT-102 | 4 | A ⁺ | 4 | 10 | 40 |
| XX158 (AC) | 3 | AF | - | - | - |
| Total | 29 | | 23 | | 182 |

* Grade awarded in Summer Term

Credits registered in the semester excluding audit courses (total of column 2) = 29

Total credits earned in the semester excluding audit courses (total of column 4) = 23

Points secured in this semester (total of column 6 for all passed courses) = 182

Cumulative points in all passed courses = 170 (past semesters) + 182 (this sem.) = 352

Cumulative total credits registered = 30 (past semesters) + 29 (this sem.) = 59

$$SGPA = \frac{\text{Points secured in the semester in all passed courses (A}^+ \text{ to D Grade)}}{\text{Total Credits registered in the semester excluding audit courses}} = \frac{182}{29} = 6.275$$

$$CGPA = \frac{\text{Cumulative Points secured in all passed courses (A}^+ \text{ to D Grade)}}{\text{Cumulative total credits, excluding audits courses}} = \frac{170 + 182}{30 + 29} = 5.966$$

Semester performance: SGPA = 6.275

Cumulative performance: CGPA = 5.966

S.N.19 SUMMER TERM GUIDELINES

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It will be decided by the Academic council as and when required. Each academic calendar will include odd & even semester and in case of excingencies, the Academic council is empowered for summer term (termed as **Summer Term-20XX**) for pursuing courses as per program from session 2017-18 onwards. For pursuing courses in Summer Term, it is mandatory to the students to get registered as per guidelines framed by the University. **However, this facility is available to all students who had registered in the courses in the regular (odd & even) semesters and could not clear any of the courses.**

Summer Term shall be designed for 45 working days. For the lecture/lab courses, classes will be conducted on all working days as well as Sundays & holidays during summer term. There will be sufficient number of theory, tutorial and laboratory classes in summer term as prescribed in the Course syllabi of ordinance. For example; a course having L-T-P as 3-1-2, will have at least 6-hrs lecture classes (it can be 1 hr to 2 hrs) in a week with 4-hours practical classes. The process of evaluation will remain the same as followed in regular semesters, i.e. two mid-term and one major exam. First Mid-term exam will be scheduled after 20-days of registration, second minor after 40 days and major exams after 45 working days of semesters. The criteria for attendance will remain same as followed during regular semesters. For certain courses of study in a Program, where the classes are not held, the process of evaluation will be through an end-term-examination. Students shall have to register during summer term on the advice of the respective Head of Department.

All students are required to register in each summer term for the courses to be pursued by them as per the program, within a week after results of even semesters are declared. ***The sole responsibility for the registration in time for summer term will be of the student concerned only.*** In view of the short duration of the Summer Term, late registration shall not be permitted.

Registration Procedure: The Dean (UGS&E) shall co-ordinate the registration process which will be assisted by the concerned Heads of Departments. The registration procedure shall involve:

- (a) Filling of the registration form mentioning the courses to be credited in the summer term
- (b) Payment of summer term fees and hostel/examination fees as fixed by the university

The students admitted to summer term shall have to fulfill all the requirements of registration after the results are declared (not later than one week) in consultation with their head of the departments. The students must deposit the registration form along with fees receipt to the office of Dean (UGS&E) so that registration work finishes within one week of even semester results declarations.

Cancellation of Registration: Absence for a period of one or more weeks at a stretch in a course during a summer term will not allow the student to appear in the minor/major exams of that course.

Grade Calculation:

The grade points secured by the students in the summer term will be used in the computation of his/her CGPA. When a student repeats a course, the new grade will replace the earlier one in the calculation of the CGPA.


Necessary Condition:

- (a) A student cannot register for more than three courses in a particular summer term.
- (b) The department will offer any course only when 5-students have applied for it. However, this provision may be relaxed by Hon'ble Vice Chancellor for final year UG students.

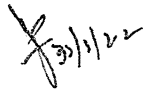
6.1.9 GUIDELINES FOR REVALUATION OF ANSWER COPIES


The university proposes a facility to the student to challenge the evaluation of answer copies of his/her major examination from even semester of 2018-19 session onwards. It will be applicable to all the undergraduate and postgraduate programs conducted by the University. Here, "Revaluation" means Valuation of answer copies to be done by the external examiners.


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6.1.10.1 CHALLENGE REVALUATION OF ANSWER SCRIPT FOR UNDERGRADUATE AND POST GRADUATE STUDENTS

- (a) Revaluation of answer script will be carried out only for the latest semester whose result has been declared.
- (b) All the students of UG & PG appearing for the University major examinations are eligible to apply for Revaluation of answer scripts in all theory courses.
- (c) These regulations will also be applicable for Pre-Ph.D courses of research programs.
- (d) All the interested students, who wishes to apply for Challenge Evaluation of Answer Scripts must apply for Challenge Evaluation to COE by paying the requisite fee within 10 working days from the date of declaration of results by University. The requisite fee shall be Rs.5000/- per course from even semester of 2018-19 session, which can be modified in future by examination committee from time to time. The remuneration to each faculty member involved in challenge evaluation will be Rs.500/- per copy. Remuneration to the faculty may be modified by examination committee from time to time.
- (e) A student cannot apply Challenge Evaluation of answer scripts in the courses other than the theory courses.
- (f) After the last day of application for challenge evaluation, the exam section shall initiate the process of challenge evaluation as per the procedure detailed hereunder:
 - The COE may finalize a panel of examiner of each course in which challenge evaluation is to be conducted, in consultation with respective HODs.
 - The COE shall take approval from hon'ble vice chancellor of two faculty members for each course.
 - Each answer script will be revaluated by two faculty members.
 - After the revaluation of each copy, average of marks given by two evaluators shall be taken into consideration for any comparison purpose.
 - The student will be informed about the outcome of challenge/re-evaluation of answer copies within two months of receipt of student's request.

6.1.10.2 AWARD OF MARKS AFTER REVALUATION:

- If the difference in original marks from average marks are less than 10% (i.e. less than ± 5 marks for major examination of 50 Max Marks) then marks of student will not be modified and the fee submitted by student will be forfeited (FF). Student's Fee will be forfeited for all cases where average marks is less than the original marks of the student.
- If the difference in original marks from average marks is greater than or equal to 10% (i.e. greater than or equal to ± 5 marks for major examination of 50 Max Marks) then the average marks will be awarded to the student. If average marks are larger by 10% or more, then the fee submitted by student will be returned as per fee refund policy framed by examination committee time to time.
- For current session, it is proposed that the Fee Refund (FR) should be done after deducting the remuneration paid to first and second valuator. Hence FR shall be Rs. 4000/- for current session.

| Cases | Original Evaluated marks (A) (out of 50) | After revaluation | | Average Marks of 1 st and 2 nd valuator (B) | Difference Between A & B | Final Marks awarded after challenge | Fee status |
|--------|--|-------------------|-----------------|---|--------------------------|-------------------------------------|------------|
| | | First Valuator | Second Valuator | | | | |
| Case-1 | 15 | 20 | 18 | 19 | $(19-15) < 5$ | 15 | FF |
| Case-2 | 15 | 20 | 22 | 21 | $(21-15) > 5$ | 21 | FR |
| Case-3 | 15 | 14 | 08 | 11 | $(15-11) < 5$ | 15 | FF |
| Case-4 | 15 | 12 | 08 | 10 | $(15-10) \leq 5$ | 10 | FF |

- In the above table, only in one case, fee of student shall be returned. It can be seen that the student fee status (FR-status) is shown for case-2 where marks awarded to the student

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is more than his/her original marks by 10% or more. For rest of the cases, where student's average marks are either less than the original marks or variation (A-B) is less than 10%, fee of student has been forfeited.

NOTE: THE CHALLENGE EVALUATION MUST BE APPLIED WITH CAUTION AS THE MARKS OBTAINED AFTER THE CHALLENGE EVALUATION SHALL BE FINAL IRRESPECTIVE OF WHETHER THOSE MARKS ARE MORE OR LESS THAN THE ORIGINAL MARKS

6.1.10.3 ELIGIBILITY OF TEACHERS FOR REVALUATION:

The faculty members who will be evaluating the answer copies during revaluation must possess at least five years of teaching experience and must be regular faculty of reputed institute/university (preferably IIT/NIT/IIIT or State/Central University or Govt. Engg. College).

6.1.11. ACADEMIC CRITERIA FOR CONTINUATION

6.1.11.1 For continuation of registration at any stage, student must satisfy criteria specified in the subsequent clause 6.1.11.2. In order to qualify for the award of the degree at the end of 8th semester, it is necessary to pass all the credits offered by the department and satisfy the criteria specified in clause 6.1.5.1.

6.1.11.2 Academic Progression

- a) A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations.
- b) **Duration for completion of the program of study:** The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh Registration.
- c) A 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.
- d) A student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of I, II, III and IV semesters are successfully completed.
- e) A student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of I, II, III, IV, V and VI semesters are successfully completed.
- f) A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to VIII semesters within the stipulated time period as per the norms (b).
- g) A lateral entry student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of III and IV semesters are successfully completed.
- h) A lateral entry student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of III, IV, V and VI semesters are successfully completed.
- i) A lateral entry student shall be eligible to get his/her CGPA upon successful completion of the courses of III to VIII semesters within the stipulated time period as per the norms specified in (b).
- j) Any student who has given more than 4 chances for successful completion of I / III semester courses and more than 3 chances for successful completion of II / IV semester courses shall be permitted to attend V/VII semester classes ONLY during the subsequent academic year as the case may be. In simpler terms there shall NOT be any ODD BATCH for any semester.

- k) Candidates who permit the requirements mentioned (a) to (i) shall be eligible for award of degree during the ensuing convocation.
- l) Ranks and Medals shall be awarded on the basis of final CGPA. However, candidates who fail in one or more courses during the B.Pharm program shall not be eligible for award of ranks. Moreover, the candidates should have completed the B. Pharm. Program in minimum prescribed number of years, (four years) for the award of Ranks.

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

6.1.11.3 A student is considered to pass in a particular course if he/she secures A⁺ to D grade in it. In case of F grade in a course in a semester then the student has to clear that course as detailed in clause no. 6.1.7 and continue as per **Clause 6.1.11.2**.

6.1.11.4 A student can challenge evaluation of answer copies as per **Clause 6.1.10**.

6.1.12. AWARD OF DIVISION, RANK AND MEDALS

6.1.12.1 A candidate who satisfies the course requirements for all semesters and who passes all the examinations prescribed for all the eight semesters (six semesters for lateral entry candidates) within a maximum period of six years (five years for lateral entry candidates) reckoned from the commencement of the first semester/third semester to which the candidate was admitted shall be declared to have qualified for the award of degree subject to the fulfillment of requirements of **Clause 6.1.11.1**. Award of the Division in the degree shall be governed by the provisions given below.

- a) **Promotion and award of grades:** A student shall be declared PASS and eligible for getting grade in a course of B.Pharm.program if he/she secures at least 5.0 CGPA in that particular course including internal assessment. For example, to be declared as PASS and to get grade, the student has to secure a minimum of 50 marks for the total of 100 including continuous mode of assessment, minor examination, practical (internal and external), and major theory examination.
- b) **Carry forward of marks:** In case a student fails to secure the minimum 5.0 CPGA in any as specified in a), then he/she shall reappear for the major 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.
- c) **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. The re-conduct of the Sessional exam shall be completed before the commencement of next end semester theory examinations
- d) **Re-examination of end semester examinations:** Re-examination of major examination shall be conducted as per the 6.1.6 and 6.1.8. The exact dates of examinations shall be notified from time to time.
- e) A candidate who qualifies for the award of the degree by securing D or above grades in all courses of all the semesters after his/her commencement of study in the 1st/3rd semester and in addition secures CGPA not less than 6.5 shall be declared to have passed the examination in **FIRST DIVISION**.
- f) All other candidates (not covered in (a) and (b)) who qualify for the award of degree by securing D or above grades in all courses of all semesters after his/her commencement of study in the 1st/3rd semester shall be declared to have passed the examination in **SECOND DIVISION**.

6.1.12.2 For the Award of **Ranks** for each branch of study and overall for the programme, the CGPA secured in all semesters shall be considered and it is mandatory that such candidate should have passed all the courses by securing D or above grades in all the semesters in the first attempt in 4/3 year duration of programme as applicable. Rank certificates in the form of "Certificate of Merit" would be issued to top three students as 1st, 2nd & 3rd rank in each

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branch of study and to one student as "University topper of B.Pharm." on the overall basis in the programme selected on the basis of CGPA in particular academic session.

6.1.12.3 Following **Medals** will be awarded annually by the University to the passing out students identified as prescribed in **Clause 6.1.11.2**.

- (a) **Vice-Chancellor Gold Medal**-The Gold Medal is awarded to the student who secures the highest CGPA at the end of semester VIII in first attempt, i.e. 1st Rank holder for B. Pharm. Program.

6.1.13 ATTENDANCE

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

6.1.13.1 Every faculty member handling a course will record attendance from the scheduled date of commencement of classes upto 3 calendar days before the last instructional day in the semester as per academic calendar. The percentages of attendance will be recorded in the office of the Dean handling academic affairs of such students of the University. The attendance remark in the grade card will be shown based on the percentages of attendance calculated for the period between the date of commencement of classes and the last date for recording the attendance in all the registered courses (credits and audit courses) in the semester as per the following table. Attendance remark shall appear in the Grade Card in each semester.

| S. N. | Attendance | Remark |
|-------|------------|--------------|
| 1 | 95-100% | Very Good |
| 2 | 90-95% | Good |
| 3 | 80-89% | Satisfactory |
| 4 | <80% | Poor |

6.1.13.2 A student is expected to attend all classes, laboratory, seminar, project, tour and tutorial sessions that are formally scheduled and a formal attendance will be taken in each such session. It is recognized that due to illness and other emergent reasons there may be instances when a student is unable to join the scheduled academic activities; a leave application duly recommended and forwarded by the student's Head of Department should be submitted in such cases at the earliest to office of the **Dean (UGS&E)**. Such absence can not be more than 20% of the total classes held in a course which needs to be got condoned as prescribed in **Clause 6.1.13.3**.

6.1.13.3 For the students who have **attendance** less than 100% but more than 80% in a semester if their medical leave is considered for condonation of attendance then they are eligible for seeking the privilege of upgradation of the attendance remark.

6.1.13.4 A student, who has a cumulative attendance lower than 80% in the semester, whatever may be the reason for the shortfall in attendance, may be permitted to appear in the University Major Examinations in those courses in which total attendance (Lecture, Tutorial & Practical) is equal to or more than 80%. Such students have to repeat only those courses in the next semester / summer term in coming academic session in which total attendance is less than 80%, and she/he shall be awarded 'U' grade in that course.

6.1.14 REGISTRATION AND ENROLMENT

6.1.14.1 The University follows a specialized credit based semester system, therefore registration at the beginning of each semester on the prescribed dates announced in the Academic Calendar,

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is mandatory for every student till she/he completes her/his programme. If a student does not register in a particular semester, her/his studentship is liable to be cancelled. Without registration, any academic activity (course/seminar/project etc) undergone by a student will not be counted towards the fulfillment of requirements of her/his degree.

- 6.1.14.2 Every student admitted shall have his/her unique registration number. The registration number shall have ten digits. First four digit shall indicate year of admission; next two shall indicate his/her branch of study, next one shall indicate his/her level (Undergraduate, Postgraduate, Ph.D., etc.) and last three digits shall indicate his/her serial number/roll number or as prescribed from time to time. Every student shall be identified by this registration number through out his stay in the University.
- 6.1.14.3 Registration should be carried out by the student himself/herself on stipulated date, but not later than the first week of each semester as late registration upon payment of prescribed late fees as decided from time to time. In any case, registration must be completed before the prescribed last date for registration, failing which he/she will not be registered in that particular session. Such students will have to register in coming next academic session if it is permissible under **Clause 6.1.3** else his/her studentship is liable to be cancelled except for those availing provision of **Clause 6.1.15**.
- 6.1.14.4 Students having any kind of outstanding dues to the University or hostel shall be 17ermit ted to register only after clearing the outstanding dues subject to provisions of clause 6.1.14.3.
- 6.1.14.5 In-absentia registration may be allowed only in rare cases at the discretion of the Vice-Chancellor of the University in case of serious illness/natural calamities/unavoidable circumstances upon the recommendation of Dean.

6.1.15 TEMPORARY DISCONTINUATION OF COURSE

- 6.1.15.1 The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh Registration.
- 6.1.15.2 Discontinuation of the course will not be allowed to B.Pharm. first year students. However, if a student of other years wishes to temporarily discontinue the course for valid reasons, she/he shall apply through the Head of Department in advance and obtain a written order from the University permitting discontinuance.
- 6.1.15.3 A candidate after temporary discontinuance may rejoin the course only at the commencement of the semester at which she/he discontinued, provided she/he pays the prescribed fees to the University for the discontinuation period also. The total period of completion of the course reckoned from the commencement of the first semester to which the candidate was admitted shall not in any case exceed six academic years (five academic years for lateral entry), including of the period of discontinuance.

S.N.19 UNFAIR MEANS

Cases of unfair means shall be dealt as per the rules of the University.

S.N.19 GENERAL ELIGIBILITY FOR AWARD OF B. Pharm. DEGREE

A student shall be declared to be eligible for award of the B.Pharm.Degree if he/she has

- (a) registered and successfully completed all the academic requirements of programme as prescribed in this Ordinance or as prescribed by the University from time to time;
- (b) successfully acquired the minimum required credits/audits as specified in the curriculum corresponding to the branch of his/her study within the stipulated time as prescribed in this Ordinance or as prescribed by the University from time to time;
- (c) earned the specified credits in all the categories of courses;
- (d) completed online course requirements prescribed by the university
- (e) has no dues to the University, Hostels, Libraries, NCC/NSS etc.,and
- (f) no disciplinary action is pending against him/her.

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B. Pharm. DEGREE with MINOR DEGREE COURSE (MDC)

- (a) In addition to prescribed credits acquired by the students for the award of B.Pharm. degree, if he/she acquires 18-20 credits for any MDC, the students will be awarded with B. Pharm. DEGREE with specialization in Minor Degree Course (MDC)

6.1.18 POWER TO MODIFY

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

6.1.19 CURRICULUM FOR B.Pharm. PROGRAMMES

First Year, Semester-I

| S.N. | Category | Paper Code | Subject | L | T | P | Credit |
|--------------|----------|---------------------|------------------------------------|-----------|----------|--------------------------|---|
| 1 | DC | BPT-11 | Human Anatomy and Physiology I | 3 | 1 | - | 4 |
| 2 | DC | BPT-12 | Pharmaceutical Analysis I | 3 | 1 | - | 4 |
| 3 | DC | BPT-13 | Pharmaceutics I | 3 | 1 | - | 4 |
| 4 | DC | BPT-14 | Pharmaceutical Inorganic Chemistry | 3 | 1 | - | 4 |
| 5 | HSSC | BAS-03 | Professional Communication | 2 | - | - | 2 |
| 6 | DC | BPT-15 [#] | Remedial Biology [#] | 2 | - | - | 2 |
| | BMS | BMS-11 ^S | Remedial Mathematics ^S | 2 | - | - | 2 |
| Total | | | | 16 | 4 | 18/20^S | 27/29^S/30[#] |

[#] applicable ONLY for the students who have Mathematics/Physics/Chemistry at HSC and appearing for Remedial Biology course

^S applicable ONLY for the students who have studies Physics/Chemistry/Botany/Zoology at HSC and appearing for Remedial Mathematics Course

First Year, Semester-II

| S.N. | Category | Paper Code | Subject | L | T | P | Credit |
|--------------|----------|------------|------------------------------------|-----------|----------|-----------|-----------|
| 1 | DC | BPT-16 | Human Anatomy and Physiology II | 3 | 1 | -- | 4 |
| 2 | DC | BPT-17 | Pathophysiology | 3 | 1 | -- | 4 |
| 3 | DC | BPT-18 | Biochemistry | 3 | 1 | -- | 4 |
| 4 | DC | BPT-19 | Pharmaceutical Organic Chemistry I | 3 | 1 | -- | 4 |
| 5 | BCT | BCT-101 | Environmental Science | 3 | -- | -- | 3 |
| 6 | BCT | BCT-102 | Computer Applications in Pharmacy | 3 | -- | -- | 3 |
| 5 | AC | | Audit Subject | | | | |
| Total | | | | 18 | 4 | 14 | 29 |

Second Year, Semester-III

| S.N. | Category | Paper Code | Subject | L | T | P | Credit |
|------|----------|------------|-------------------------------------|---|---|----|--------|
| 1 | DC | BPT-21 | Physical Pharmaceutics I | 3 | 1 | -- | 4 |
| 2 | DC | BPT-22 | Pharmaceutical Microbiology | 3 | 1 | -- | 4 |
| 3 | DC | BPT-23 | Pharmaceutical Organic Chemistry II | 3 | 1 | -- | 4 |
| 4 | EF | BCT-103 | Pharmaceutical Engineering | 3 | 1 | -- | 4 |

| | | | | | | | |
|--------------|----|--|---------------|-----------|----------|-----------|-----------|
| 5 | AC | | Audit Subject | | | | |
| Total | | | | 12 | 4 | 16 | 24 |

Second Year, Semester-IV.

| S.N. | Category | Paper Code | Subject | L | T | P | Credit |
|--------------|----------|------------|--------------------------------------|-----------|----------|-----------|-----------|
| 1 | DC | BPT-25 | Physical Pharmaceutics II | 3 | 1 | -- | 4 |
| 2 | DC | BPT-26 | Pharmacology I | 3 | 1 | -- | 4 |
| 3 | DC | BPT-27 | Pharmacognosy and Phytochemistry | 3 | 1 | -- | 4 |
| 4 | DC | BPT-28 | Medicinal Chemistry I | 3 | 1 | -- | 4 |
| 5 | DC | BPT-29 | Pharmaceutical Organic Chemistry III | 3 | 1 | -- | 4 |
| 6 | AC | | | | | | |
| Total | | | | 15 | 5 | 16 | 28 |

Third Year, Semester-V

| S.N. | Category | Paper Code | Subject | L | T | P | Credit |
|--------------|----------|------------|-------------------------------------|-----------|----------|-----------|-----------|
| 1 | DC | BPT-31 | Industrial Pharmacy I | 3 | 1 | -- | 4 |
| 2 | DC | BPT-32 | Pharmacology II | 3 | 1 | -- | 4 |
| 3 | DC | BPT-33 | Pharmacognosy and Phytochemistry II | 3 | 1 | -- | 4 |
| 4 | DC | BPT-34 | Pharmaceutical Jurisprudence | 3 | 1 | -- | 4 |
| 5 | DC | BPT-35 | Medicinal Chemistry II | 3 | 1 | -- | 4 |
| 9 | AC | | | | | | |
| Total | | | | 15 | 5 | 12 | 26 |

Third Year, Semester-VI

| S.N. | Category | Paper Code | Subject | L | T | P | Credit |
|--------------|----------|------------|---------------------------------------|-----------|----------|-----------|-----------|
| 1 | DC | BPT-36 | Pharmacology III | 3 | 1 | -- | 4 |
| 2 | DC | BPT-37 | Herbal Drug Technology | 3 | 1 | -- | 4 |
| 3 | DC | BPT-38 | Biopharmaceutics and Pharmacokinetics | 3 | 1 | -- | 4 |
| 4 | DC | BPT-39 | Pharmaceutical Biotechnology | 3 | 1 | -- | 4 |
| 5 | DC | BPT-40 | Quality Assurance | 3 | 1 | -- | 4 |
| 6 | DC | BPT-41 | Medicinal Chemistry III | 3 | 1 | -- | 4 |
| 7 | AC | BPT-30 | Seminar | | | | |
| Total | | | | 18 | 6 | 12 | 30 |

Note: The student is required to complete total 50-65 days industrial training in Pharmaceutical Industries after IV and VI Semester and both training will be evaluated in Semester VII.

Forth Year, Semester-VII

| S.N. | Category | Paper Code | Subject | L | T | P | Credit |
|--------------|----------|------------|----------------------------------|-----------|----------|-----------|-----------|
| 1 | DC | BPT-42 | Industrial Pharmacy-II | 3 | 1 | -- | 4 |
| 2 | DC | BPT-43 | Pharmacy Practice | 3 | 1 | -- | 4 |
| 3 | DC | BPT-44 | Novel Drug Delivery System | 3 | 1 | -- | 4 |
| 4 | DC | BPT-45 | Instrumental Methods of Analysis | 3 | 1 | -- | 4 |
| 5 | AC | BPT-46 | Industrial/Practical Training | | | | |
| Total | | | | 12 | 4 | 16 | 24 |

Forth Year, Semester-VIII

| S.N. | Category | Paper Code | Subject | L | T | P | Credit |
|--------------|----------|------------|--|-----------|----------|-----------|-----------|
| 1 | DC | BPT-47 | Social and Preventive Pharmacy | 3 | 1 | -- | 4 |
| 2 | BCT | BCT-104 | Biostatistics and Research Methodology | 3 | 1 | -- | 4 |
| 3 | PE | BP-* | Program Elective - 1 | 3 | 1 | -- | 4 |
| 4 | PE | BP-* | Program Elective-2 | 3 | 1 | -- | 4 |
| 5 | OE | BOE-** | Open Elective | 3 | -- | -- | 3 |
| 6 | P | BPT-50 | Project Work | -- | -- | 12 | 6 |
| Total | | | | 12 | 4 | 12 | 25 |

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Program Electives

| S.N. | Paper Code | Subject | Prerequisite Subject | L | T | P | Credits |
|--|------------|--|----------------------|---|---|---|---------|
| PE-1 & PE-2 (VIII Semester) | | | | | | | |
| 1. | BPT-71 | Pharmaceutical Marketing | - | 3 | 1 | 0 | 4 |
| 2. | BPT-72 | Pharmaceutical Regulatory Science | - | 3 | 1 | 0 | 4 |
| 3. | BPT-73 | Pharmacovigilance | - | 3 | 1 | 0 | 4 |
| 4. | BPT-74 | Quality Control and Standardization of Herbals | - | 3 | 1 | 0 | 4 |
| 5. | BPT-75 | Computer Aided Drug Design | - | 3 | 1 | 0 | 4 |
| 6. | BPT-76 | Cell and Molecular Biology | - | 3 | 1 | 0 | 4 |
| 7. | BPT-77 | Cosmetic Science | - | 3 | 1 | 0 | 4 |
| 8. | BPT-78 | Experimental Pharmacology | - | 3 | 1 | 0 | 4 |
| 9. | BPT-79 | Advanced Instrumentation Techniques | - | 3 | 1 | 0 | 4 |

Open Electives

| S.N. | Paper Code | Subject | Prerequisite Subject | L | T | P | Credits |
|---------------------------|------------|---|----------------------|---|---|---|---------|
| OE (VIII Semester) | | | | | | | |
| 1. | BCT-105 | Process Intensification Techniques | - | 3 | - | 0 | 3 |
| 2. | BCT-106 | Wastewater Treatment Technology | - | 3 | - | 0 | 3 |
| 3. | BCT-107 | Process Technology of Drugs and Intermediates | - | 3 | - | 0 | 3 |
| 4. | BCT-108 | Pharmaceutical Solid Waste Management | - | 3 | - | 0 | 3 |

* Student may opt the relevant course from SWAYM and NPTEL subject to approval from BOS and competent authority.

Audit Courses for B. Pharm Students

| S.N. | Paper Code | Subject | Prerequisite Subject | L | T | P | Credits |
|-----------------|------------|---|----------------------|---|---|---|---------|
| Year - I | | | | | | | |
| 1 | BCY-04 | Environment & Ecology | - | 3 | 1 | 0 | 4 |
| 2 | BCT-11 | Chemical Engineering Process Calculations | - | 3 | 1 | 2 | 5 |
| Year-II | | | | | | | |
| 1. | BCT-78 | Bioprocess Engineering Principles | - | 3 | 1 | 0 | 4 |
| 2. | BME-56 | Energy Management | - | 3 | 1 | 0 | 4 |
| 3. | BCT-14 | Chemical Engineering Mechanical Operation | - | 3 | 1 | 2 | 5 |
| 4. | BCT-17 | Heat Transfer Operation | - | 3 | 1 | 2 | 5 |
| Year-III | | | | | | | |
| 1. | BCT-27 | Mass Transfer Operation - I | - | 3 | 1 | 0 | 4 |
| 2. | BCT-28 | Chemical Reaction Engineering - I | - | 3 | 1 | 2 | 5 |
| 3. | BCE-51 | Solid Waste Management | - | 3 | 1 | 0 | 4 |
| 4. | BEE-29 | Instrumentation and Process Control | - | 3 | 1 | 2 | 5 |

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B. Pharm.
(SEM) ODD/EVEN SEMESTER
MAJOR EXAMINATION 20... - 20...

Title of Subject

Time: 3 Hrs.

Note: -----

Max. Marks: 75

| | | | |
|-----------|-----|---|---------------------|
| 1. | | (Questions from All Units) | (15) |
| | | Paper setter may ask the questions as per following: (Maximum marks per question should not more than 2) | |
| | | i) short answer question | |
| | | ii) Multiple choice question such as: | |
| | | - matching of lists, | |
| | | - arrangement of sequence, | |
| | | - assertion & reason, | |
| | | - statement with true or false combination, | |
| | | - list match is correct/incorrect, etc | |
| | | Note: MCQ should be national/international level competitive examination | |
| 2. | | Attempt any three parts of the following: | (3 × 5 = 15) |
| | | (Questions from Unit-I) | |
| | (a) | | |
| | (b) | | |
| | (c) | | |
| | (d) | | |
| 3. | | Attempt any three parts of the following: | (3 × 5 = 15) |
| | | (Questions from Unit-II) | |
| | (a) | | |
| | (b) | | |
| | (c) | | |
| | (d) | | |
| 4. | | Attempt any three parts of the following: | (3 × 5 = 15) |
| | | (Questions from Unit-III) | |
| | (a) | | |
| | (b) | | |
| | (c) | | |
| | (d) | | |
| 5. | | Attempt any three parts of the following: | (3 × 5 = 15) |
| | | (Questions from Unit-IV) | |
| | (a) | | |
| | (b) | | |
| | (c) | | |
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B. Pharm.
(SEM) ODD/EVEN SEMESTER
MAJOR EXAMINATION 20... - 20...

Title of Subject

Time: 2 Hrs.

Note: -----

Max. Marks: 50

| | | |
|-----------|---|---------------------|
| 1. | (Questions from All Units) | (10) |
| | Paper setter may ask the questions as per following: (Maximum marks per question should not more than 2) i) short answer question ii) Multiple choice question such as: <ul style="list-style-type: none"> - matching of lists, - arrangement of sequence, - assertion & reason, - statement with true or false combination, - list match is correct/incorrect, etc | |
| | Note: MCQ should be national/international level competitive examination | |
| 2. | Attempt any two parts of the following: | (2 × 5 = 10) |
| | (Questions from Unit-I) | |
| | (a) | |
| | (b) | |
| | (c) | |
| 3. | Attempt any two parts of the following: | (2 × 5 = 10) |
| | (Questions from Unit-II) | |
| | (a) | |
| | (b) | |
| | (c) | |
| 4. | Attempt any two parts of the following: | (2 × 5 = 10) |
| | (Questions from Unit-III) | |
| | (a) | |
| | (b) | |
| | (c) | |
| 5. | Attempt any two parts of the following: | (2 × 5 = 10) |
| | (Questions from Unit-IV) | |
| | (a) | |
| | (b) | |
| | (c) | |

BPT-

Roll No.

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B. Pharm.
(SEM) ODD/EVEN SEMESTER
MINOR EXAMINATION 20... - 20...

Title of Subject

Time: 1 Hr.

Note: -----

Max. Marks: 15

| | | | |
|----|-----|---|----------|
| 1. | | (Questions from I & II Units (Minor Test-I)/ III & IV (Minor Test -II)) | 5 |
| | | Paper setter may ask the questions as per following: (Maximum marks per question should not more than 1) i) short answer question ii) Multiple choice question such as: - matching of lists, - arrangement of sequence, - assertion & reason, - statement with true or false combination, - list match is correct/incorrect, etc Note: MCQ should be national/international level competitive examination | |
| 2. | | Attempt any two parts and part (a) is compulsory (Questions from I Unit (Minor Test-I)/ III (Minor Test -II)) | |
| | (a) | | 3 |
| | (b) | | 2 |
| | (c) | | 2 |
| 3. | | Attempt any two parts and part (a) is compulsory (Questions from II Unit (Minor Test-I)/ IV (Minor Test -II)) | |
| | (a) | | 3 |
| | (b) | | 2 |
| | (c) | | 2 |