

NORTH MAHARASHTRA UNIVERSITY
(Introduced from June, 2012)

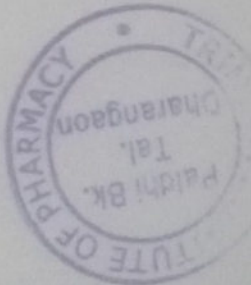
Ordinances Regulating Including Scheme and Syllabi relating to the Degree of Bachelor of Pharmacy (B. Pharm.) Degree Course (NEW) with effect from Academic Year (2012-13)

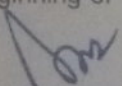
- Course Title :** Bachelor of Pharmacy
- Abbreviation :** B. Pharm.
- Type of Course :** A four year degree course divided into eight Semesters.
- Pattern :** Semester.
- Number of Years and Semester :** Four Years divided into eight semesters with two semesters per year.
- Nomenclature of Semesters :**
- | | |
|------------------------------|-----------------------|
| Semester-I & Semester-II | First Year B. Pharm. |
| Semester-III & Semester-IV | Second Year B. Pharm. |
| Semester-V & Semester-VI | Third Year B. Pharm. |
| Semester-VII & Semester-VIII | Final Year B. Pharm. |
- Award of the Degree :** Degree will be awarded for those passing in all the eight semesters as per the rules and regulations given subsequently.
- Duration of Semester :** Each Semester will be normally of 15 weeks duration for class room teaching/ lecture and internal evaluation.
- Definitions :**
1. University means North Maharashtra University until and otherwise specified.
 2. The college/Institute- Any college conducting B. Pharmacy course and affiliated to North Maharashtra University, Jalgaon.
 3. State Govt.: Govt. of Maharashtra
 4. Admission Authority: Any authority to conduct admission process as prescribed by Govt. of Maharashtra
 5. Director / DTE – Directorate of Technical Education, Maharashtra State.
 6. AICTE – All India Council of Technical Education, New Delhi

B. Pharm. 1 Entry levels into the course, eligibility criteria, admission authority and procedures.

Admission authority and procedure at the entry levels into the course will be as per the directions of Government of Maharashtra / Director of Technical Education/ All India Council of Technical Education, New Delhi prevailing at the time of admissions.

Entry levels into the course will be at the beginning of the Semester- I or at the beginning of the Semester -III.




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B. Pharm.1.1 Eligibility Criteria for Admission at the entry level at Semester –I into the Course.

In order to secure admission to Semester –I of the Four year Degree Course in Pharmacy, the candidate should fulfill the following eligibility criteria;

- Passed the Higher Secondary Certificate (Std. XII) Examination of the Maharashtra State Board of Secondary and Higher Secondary Education, or its equivalent examination with English as one of the subjects.
- ❖ All the subjects mentioned under Group-I and
- ❖ Any one of the subjects from Group-II

AND

- Secured minimum 45% marks (40% for backward class candidates from Maharashtra) in Physics, Chemistry, and the subject of maximum marks amongst the four subjects of

Group-I: (all subjects from this group are compulsory)

1. Physics
2. Chemistry

Group-II: (any one of the subjects from this group)

1. Mathematics
2. Biology

OR

Must have passed Diploma in Pharmacy or its equivalent examination by Board of Technical education or equivalent examination. with not less than 45% of marks in the aggregate of all subjects taken together at the Final Year Examination.

O B. Pharm.1.2 Eligibility Criteria for Admission at the entry level of Semester-III (i.e. the first semester of Second Year B. Pharm.) into the Course

The candidate who has passed the final examination leading to the Diploma in Pharmacy conducted by the Board of Technical Education, Maharashtra State or equivalent examination from the institute approved by the Pharmacy Council of India and with a minimum 50% at part-II examination for the Diploma in Pharmacy Course (45% for backward class candidates from Maharashtra) as per ER-91 (i.e. Post H.S.C. two year Diploma Course) be held eligible for admission to semester-III.

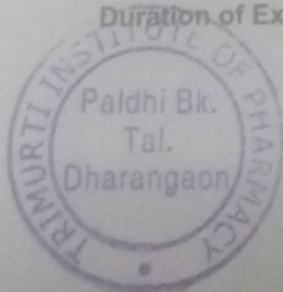
O B. Pharm. 2 Examinations:

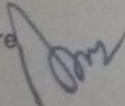
O B. Pharm. 2.1 Examination conducting authority: North Maharashtra University, Jalgaon

O B. Pharm. 2.2 Regular and Supplementary Examinations and time: (Tentative schedule)
The University will decide exact schedule on the basis of prevailing situation.

| Semester | Regular Examination | Supplementary Examination |
|-------------------|---------------------|---------------------------|
| I, III, V & VII | (November/December) | (April/May) |
| II, IV, VI & VIII | (April/May) | (November/December) |

Duration of Examinations, Marks, etc. See examination scheme at Annexure




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O B. Pharm. 2.3 Criteria for admitting the candidate for examinations irrespective of regular or supplementary examinations:

Candidate must have been admitted to the respective Semester as per the criteria for continuation into the respective Semesters given in O. B. Pharm. 3 and has kept the term for the Semester for which he is examined.

The candidate must submit prescribed application form along with fees.

Candidates must appear for the examination in the place and time as decided by the admitting Institute/ the University as the case may be.

Candidate who has failed in a particular Semester or has ATKT will be allowed to appear for the same examination on a new application being forwarded and a fresh fee paid.

Clarifications:

Candidate who has ATKT will appear for examinations in only those subject heads in which the candidate has failed except stated below.

The candidate who has passed in all the subjects but failed due to not getting overall 50% marks will be allowed to appear in any number of subject heads the candidate desires .

For all the remaining cases, the candidate has to appear for examination in all those subject heads in which the candidate has failed.

E_suidha : For E_suidha scheme, student should check the website for enrollment and examination timely.

O B. Pharm. 2.4 Periodic Tests (Sessional Examintion):

Each Semester will consist of a minimum of 15 weeks instructions.

*i.e. $15 \times 6 = 90$ instructional days (Actual teaching).

75% attendance is compulsory.

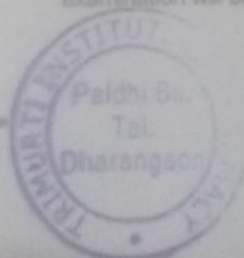
To ensure uniform attention of the students of their work throughout each semester of their study, Periodic tests will be conducted for each semester. Conducting authority shall be Institutes where candidate is admitted.

Number of Periodic tests (Sessional Examintion):

There will be a minimum of one sessional examination of 20 marks in each of the theory subjects during each semester.

One periodic test (Sessional Examination) will be conducted as per the examination scheme (See Annexure) for each semester. The students who will either secure less than 40% mark in the test or unable to appear for the scheduled periodic test may be permitted for the periodic test in the same semester only if approved by institutional examination committee and paying fees as prescribed by the institution.

Practical sessional examination of 20 marks will be based on internal assessment of practical, day to day attendance, viva, laboratory record. The distribution of marks for practical examination will be as given below -



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| | |
|---------------------------------|-----|
| Attendance - | 40% |
| Viva Voce - | 20% |
| Laboratory Record/Performance - | 40% |

Internal assessment of practicals (20%) will be based on day to day attendance, viva, laboratory record, etc.

The institutional examination committee shall consist of Principal (Chairman), & four teachers nominated by the Principal.

Time Schedule:

After completion of at least two thirds syllabus of the semester.

The Retest/ Improvement test/ or supplementary test for the periodic tests will be allowed for the failed candidates in the University examination, if he/she is appearing for the University exam of that subject head.

The Retest/ Improvement test/ or supplementary test shall be carried by the respective institution and the marks obtained by the candidate shall be forwarded to the University.

The institute conducting the course must submit the periodic test marks of the respective semester to the Controller of Examinations in soft copy and print before the commencement of theory or practical examination whichever is later.

Scaling down technique will be implemented for the periodic test.

O B. Pharm. 3 Continuation into the subsequent semesters after the entry level semesters. The admitting authority will be the individual institutes where the candidate has been admitted into the course, and the continuation will be as per the criteria decided by the University for each semester.

The following criteria are applicable to all the candidates for continuation.

O B. Pharm. 3.1 A candidate, to be eligible for the Degree will be required to pass examinations, as under:-

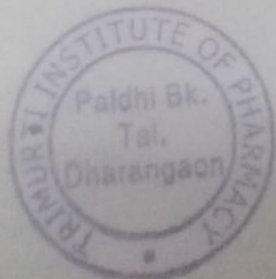
| | |
|-----------------------|------------------------------|
| First year B. Pharm. | Semester-I & Semester-II |
| Second year B. Pharm. | Semester-III & Semester-IV |
| Third year B. Pharm. | Semester-V & Semester-VI |
| Fourth year B. Pharm. | Semester-VII & Semester-VIII |

O B. Pharm. 3.2

No candidate will be admitted to any examination unless he/she keeps term at a College affiliated to the University, and produces, from the Principal of the College, testimonials of: Satisfactory attendance at the theory, Practical and term work classes as prescribed.

O B. Pharm. 3.3 – Promotion from odd semester to even semester in the same academic year-

a) A Candidate who fails in Semester - I examination of First Year B. Pharm. will be allowed to keep term for his/her Semester -II Examination, of First Year B. Pharm.



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- b) A Candidate who fails in Semester – III examination of Second Year B. Pharm. will be allowed to keep term for his/ her Semester – IV Examination of Second Year B. Pharm.
- c) A Candidate who fails in Semester – V examination of Third Year B. Pharm. will be allowed to keep term for his/her Semester – VI Examination of Third Year B. Pharm.
- d) A Candidate who fails in Semester – VII examination of Fourth Year B. Pharm. will be allowed to keep term for his Semester – VIII Examination of Fourth Year B. Pharm.

O B. Pharm. 3.4- Promotion to subsequent academic year-

A candidate who fails in more than one third of total number of subjects taken together at Semester I and Semester II / Semester III & Semester IV/Semester V & Semester VI course examination will not be permitted to keep terms in the higher class viz. Semester III & Semester IV/Semester V & Semester VI/Semester VII & Semester VIII of B. Pharm. course examination respectively.

O B. Pharm. 3.5-Clarification of 3.3 and 3.4-

- a) No candidate will be admitted to the Semester III course unless he/she passes his/her Semester I and Semester II examination of B. Pharm.

OR

Passes in at least two third of total number of subjects at the Semester I and Semester II examination of B.Pharm. in accordance with O B. Pharm. 3.4

- b) No candidate will be admitted to the Semester V course unless he/she –
 - i) passes his/her Semester I & Semester II., Semester III & Semester IV Examinations of B. Pharm.

OR

ii) passes his/her Semester I and Semester II examination of B. Pharm. and fails in not more than One third of total number of subjects at the Semester III & Semester IV Examinations of B. Pharm. in accordance with O B. Pharm.3.4:

- c) No candidate will be admitted to the Semester VII course of B. Pharm. unless he/she
 - i) Passes his/her Semester I & Semester II., Semester III & Semester IV., Semester V & Semester VI Examinations of B. Pharm. examinations,

OR

ii) passes his/her Semester I & Semester II., Semester III & Semester IV Examinations of B. Pharm. and fails in not more than One third of total number of subjects at the Semester V & Semester VI Examinations of B. Pharm. in accordance with O B. Pharm.3.4:

Allowed to Keep Terms (ATKT) rules.

Number of subjects: ATKT will be awarded to those who have failed in 1/3 subject head (33%) as described in table given below



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| At the end of academic year | | Total subject heads at the end of academic year. | 33 % of total subjects (To nearest full digit) for ATKTK |
|-----------------------------|-----------|--|--|
| First | Theory | 05+06=11 | 4 |
| | Practical | 04+04=08 | 3 |
| Second | Theory | 06+06=12 | 4 |
| | Practical | 05+05=10 | 3 |
| Third | Theory | 05+05=10 | 3 |
| | Practical | 05+04=09 | 3 |

O B. Pharm. 4 Marks, Criteria for passing and other conditions.

O B. Pharm. 4.1 Passing criteria for each subject head:

Maximum marks for each subject head and the minimum marks for passing in each of the subject head –See Examination scheme given in Annexure.

No separate passing is required for periodic test and if the candidate remains absent for the test, the candidate will be just treated as not appeared for the test securing zero marks. What so ever mark obtained by the candidate will be added to the marks obtained by the candidate in University examination as shown in scheme of examination given in Annexure.

In no circumstance previous marks will be considered. If a candidate's application form for reappearing in the examination in a subject head is accepted, and the candidate appear in the examination (Periodic test & Semester examination) fresh marks will be considered.

O B. Pharm.4.2 Passing of the semester.

Candidate will be considered as passed the semester only when the candidate passes in the entire subject heads and obtains overall a minimum of 50% of the total aggregate marks prescribed for the semester see Annexure.

O B .Pharm. 4.3 Award of the degree and Class.

Degree will be awarded to the candidates who have passed all the eight semesters.

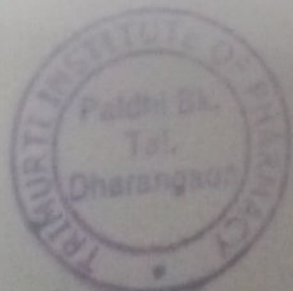
Class will be awarded on the basis of combined marks at the Semester-V to Semester VIII.

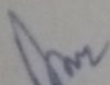
1. Those obtaining 50 per cent & above but below 60 per cent of the total marks Second class per cent of the total marks
2. Those obtaining 60 per cent & above but below 70 First Class. per cent of the total marks
3. Those obtaining 70 per cent of the total marks or above and First Class with Distinction.

A student will be allowed to improve his/her class at B. Pharm. by reappearing for the subjects (maximum 3 theory subjects of that examination) from V or/and VIII Semesters of B. Pharm. Course as per prevalent policy of University.

O B. Pharm. 4.4 With holding of results.

A candidate's result will be with held under the following situations and of the respective Semester.




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1. Withholding of result for not fulfilling passing criteria for advancement to subsequent classes-

Result of Semester IV will be with held if the candidate has not passed Semester-I and Semester II.

Result of Semester VI will be with held if the candidate has not passed Semester-III and Semester - IV.

Result of Semester VIII will be with held if the candidate has not passed Semester- V& Semester-VI.

2. Withholding of result for failure to comply University rules-

The result of candidate shall be withhold if the candidate found guilty in malpractices during examinations and any other failure to comply University rules and regulation as confirmed by appropriate body of University.

O B. Pharm. 4.6 Exemption to appear for the examination:

If a candidate has got ATKT, the candidate will be exempted for appearing the examination for those subject heads in which the candidate has passed.

Any candidate who has passed in any subjects head is exempted for appearing the examination in that subject head.

Notwithstanding above if a candidate has passed in all the subjects but failed due to not getting 50% of the aggregate marks may appear for the examination in any three theory subject heads the candidate desires so as to get over all 50% marks. In such cases, Higher marks obtained in the subject heads, the candidate has appeared for the fresh examination and the marks obtained in the previous examination of the same subject will only be considered irrespective of the examination and fresh result will be declared. For example if the candidate gets over all 50% marks but fails in one of the subject heads in which the candidate had passed earlier, the candidate will be treated as passed in that subject head as per previous examination and result will be declared as per the rules applicable to the passed candidates. The marks in which the candidate has not appeared for the examination will be carried forward.

O B. Pharm. 4.7 Every candidate shall be required to work for at least four weeks in a Pharmaceutical Industry after the Semester- IV of the course of study, and shall submit satisfactory report of such work to the head of the institute. The candidate should also submit one copy to the University for the Award of Degree along with convocation form. The candidate may undergo practical training in parts, each constituting not less than two weeks.

O B. Pharm. 4.8 The Detailed Scheme of Examination & Syllabus for each semester-See Annexure.

The pattern for University theory examination question paper shall be as given below:

Scheme for theory Examination: - Each Theory paper should be divided in 2 sections which should be attempted in separate answer sheet.



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| Sr. No. | Head | Marks distribution |
|---------------------|---|---------------------------------------|
| Section – I | | |
| Q.1. | Small Questions-Reasoning, Definition, Structures, Justifications, Diagram etc. (Note: True false, match the pairs, fill in the blanks, MCQ should not be asked) | 10 (2 mark x 5 Qs, out of 7 Qs.) |
| Q.2 | Short answers type questions – 5 marks | 20 (5 mark x 4 Qs, out of 6 Qs.) |
| Q.3 | Long answers questions | 10 (10 mark x 1 Qs, out of 2 Qs.) |
| Section – II | | |
| Q.4 | Small Questions-Reasoning, Definition structures, Justifications, diagram etc. (Note: true false, match the pairs, fill in the blanks, MCQ should not be asked) | 10 (2 mark x 5 Qs, out of 7 Qs.) |
| Q.5 | Short answers type questions – 5 marks | 20 (5 mark x 4 Qs, out of 6 Qs.) |
| Q.6 | Long answers questions | 10 (10 mark x 1 Qs, out of 2 Qs.) |
| | Total maximum marks of section I and II | 80 |
| | Duration of examination | 3 Hrs. |

Scheme for University Examination

| Sr. No. | Head | Marks distribution |
|---------|--|--------------------|
| 1 | Spotting/ Identification (If spotting/Identification is not applicable to any subject, marks will be included in Major & Minor Experiment) | 10 |
| 2 | Synopsis | 10 |
| 3 | Major experiment | 35 |
| 4 | Minor experiment | 15 |
| 5 | Viva | 10 |
| | Total Marks | 80 |
| | Duration | 04 Hrs. |

Scheme for Practical Sessional Examination

| Sr. No. | Head | Marks distribution |
|---------|----------------------------|--------------------|
| 1 | Attendance | 08 |
| 2 | Viva | 04 |
| 3 | Lab Record and Performance | 08 |
| | Total Marks | 20 |
| | Duration | 03 Hrs. |



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Subject Semester 1

| Subject Code | Subject | Workload |
|--------------|---|-------------|
| T.1.1.1. | Pharmaceutics-I(Dispensing Pharmacy) | 4 |
| P.1.1.1. | Pharmaceutics-I(Dispensing Pharmacy) | 3 |
| T.1.1.2. | Pharmacognosy-I | 3 |
| P.1.1.2. | Pharmacognosy-I | 3 |
| T.1.1.3. | Pharmaceutical Chemistry-I (Inorg. Pharm. Chemistry) | 3 |
| P.1.1.3. | Pharmaceutical Chemistry-I (Inorg. Pharm. Chemistry) | 3 |
| T.1.1.4. | Applied Biostatistics & Computer Applications in Pharmacy | 4 |
| P.1.1.4. | Applied Biostatistics & Computer Applications in Pharmacy | 3 |
| T.1.1.5. | Communicating Skills and soft skill development | 4 |
| Total | | Th 18/Pr 12 |

Semester II

| Subject Code | Subject | Workload |
|--------------|--|-------------|
| T 1.2.1. | Pharmaceutics -II(Unit operation) | 4 |
| P 1.2.1. | Pharmaceutics -II(Unit operation) | 3 |
| T 1.2.2. | Pharmaceutical Chemistry -II(Inorganic & Physical Chemistry) | 3 |
| P 1.2.2. | Pharmaceutical Chemistry -II(Inorganic & Physical Chemistry) | 3 |
| T 1.2.3. | Pharmaceutical Chemistry-III(Organic Chemistry-I) | 4 |
| P 1.2.3. | Pharmaceutical Chemistry-III(Organic Chemistry-I) | 3 |
| T 1.2.4. | Anatomy, Physiology & Health Education (APHE) – I | 4 |
| P 1.2.4. | Anatomy, Physiology & Health Education (APHE) – I | 3 |
| T 1.2.5. | Industrial Psychology | 3 |
| 5555 | Environmental Science | 3 |
| Total | | Th 18/Pr 12 |

Semester III

| Subject Code | Subject | Workload |
|--------------|--|------------|
| T 2.3.1 | Pharmaceutics -III (I Physical Pharmacy-I) | 3 |
| P 2.3.1 | Pharmaceutics -III (I Physical Pharmacy-I) | 3 |
| T 2.3.2. | Pharmaceutical Chemistry-IV (Organic Chemistry - II) | 3 |
| P 2.3.2. | Pharmaceutical Chemistry-IV (Organic Chemistry - II) | 3 |
| T 2.3.3. | Pharmacognosy -II | 3 |
| P 2.3.3. | Pharmacognosy -II | 3 |
| T 2.3.4. | Pharmaceutical Analysis – I | 3 |
| P 2.3.4 | Pharmaceutical Analysis – I | 3 |
| T 2.3.5 | A P HE-II | 3 |
| P 2.3.5 | A P HE-II | 3 |
| T.2.3.6 | Pathophysiology of Common Diseases-I | 3 |
| | | Th 18/Pr15 |



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Semester IV

| Subject Code | Subject | Workload |
|--------------|--|-------------|
| T.2.4.1. | Pharmaceutics – IV (Physical Pharmacy-II) | 3 |
| P.2.4.1. | Pharmaceutics – IV (Physical Pharmacy -II) | 3 |
| T.2.4.2. | Pharmaceutical Microbiology | 3 |
| P.2.4.2. | Pharmaceutical Microbiology | 3 |
| T.2.4.3. | Pharmacognosy – III | 3 |
| P.2.4.3. | Pharmacognosy – III | 3 |
| T.2.4.4. | Pharmaceutics –V (Hospital Pharmacy) | 3 |
| P.2.4.4. | Pharmaceutics –V (Hospital Pharmacy) | 3 |
| T.2.4.5. | Pharmaceutical Chemistry - V(Biochemistry) | 3 |
| P.2.4.5. | Pharmaceutical Chemistry - V(Biochemistry) | 3 |
| T.2.4.6. | Pathophysiology of Common Diseases-II | 3 |
| | | Th 18/Pr 15 |

Semester V

| Subject Code | Subject | Workload |
|--------------|---|-------------|
| T 3.5.1. | Pharmaceutical Chemistry - VI (Medicinal Chemistry - I) | 4 |
| P 3.5.1. | Pharmaceutical Chemistry - VI (Medicinal Chemistry - I) | 3 |
| T 3.5.2. | Pharmaceutics - VI (Pharmaceutical Technology I) | 4 |
| P 3.5.2. | Pharmaceutics - VI (Pharmaceutical Technology I) | 3 |
| T 3.5.3. | Pharmacology – I | 4 |
| P 3.5.3. | Pharmacology – I | 3 |
| T 3.5.4. | Pharmacognosy –IV | 3 |
| P 3.5.4. | Pharmacognosy –IV | 3 |
| T 3.5.5. | Pharmaceutical Analysis-II | 3 |
| P 3.5.5. | Pharmaceutical Analysis-II | 3 |
| Total | | Th 18/Pr 15 |

Semester VI

| Subject Code | Subject | Th |
|--------------|---|-------------|
| T 3.6.1. | Pharmaceutical Chemistry - VII (Medicinal Chemistry -II) | 4 |
| P 3.6.1. | Pharmaceutical Chemistry - VII (Medicinal Chemistry - II) | 3 |
| T 3.6.2. | Pharmaceutics -VII(Biopharmaceutics & Pharmacokinetics) | 3 |
| P 3.6.2. | Pharmaceutics -VII(Biopharmaceutics & Pharmacokinetics) | 3 |
| T 3.6.3. | Pharmacology –II | 4 |
| P 3.6.3. | Pharmacology –II | 3 |
| T 3.6.4. | Pharmacognosy - V (Chemistry of Natural Products) | 3 |
| P 3.6.4. | Pharmacognosy - V (Chemistry of Natural Products) | 3 |
| T 3.6.5. | Pharmaceutical Jurisprudence & Ethics | 4 |
| P 3.6.6. | Project report | |
| | | Th 18/Pr 12 |

Compulsory Industrial Training of Four Weeks with Component of Evaluation after Completion of IV Semester



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Semester VII

| Subject Code | Subject | Workload |
|--------------|--|------------|
| T 4.7.1. | Pharmaceutics – VIII (Pharmaceutical Technology - II) | 3 |
| P 4.7.1. | Pharmaceutics – VIII (Pharmaceutical Technology - II) | 3 |
| T 4.7.2. | Pharmaceutical Chemistry _ VIII(Medicinal Chemistry - II) | 3 |
| P 4.7.2. | Pharmaceutical Chemistry _ VIII(Medicinal Chemistry - III) | 3 |
| T 4.7.3. | Pharmacology –III | 3 |
| P 4.7.3. | Pharmacology –III | 3 |
| T 4.7.4. | Pharmaceutical Analysis – III | 3 |
| P 4.7.4. | Pharmaceutical Analysis – III | 3 |
| T 4.7.5. | Pharmaceutical Biotechnology | 3 |
| T 4.7.6. | Pharmaceutical Industrial Management | 3 |
| | | Th 18/Pr12 |

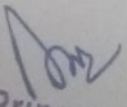
Semester VIII

| Subject Code | Subject | Workload |
|--------------|---|-------------|
| T 4.8.1. | Pharmaceutics – IX | 3 |
| P 4.8.1. | Pharmaceutics – IX | 3 |
| T 4.8.2. | Pharmaceutical Analysis – IV | 3 |
| P 4.8.2. | Pharmaceutical Analysis – IV | 3 |
| T 4.8.3. | Pharmaceutical Chemistry –IX (Medicinal Chemistry- IV) | 3 |
| P 4.8.3. | Pharmaceutical Chemistry – IX (Medicinal Chemistry- IV) | 3 |
| T 4.8.4. | Pharmacognosy – VI | 3 |
| P 4.8.4. | Pharmacognosy – VI | 3 |
| T 4.8.5. | Pharmacology - IV (Clinical Pharmacy & Drug Interactions) | 3 |
| T 4.8.6. | Elective (Theory) | 3 |
| P 4.8.7. | Industrial training report | - |
| | | Th 18/Pr 12 |

* Elective subjects

1. Pharm. Marketing
2. Medicinal Plant Biotechnology
3. Quality Assurance
4. Drug Design and Lead Identification
5. Bioavailability and TDM
6. Cosmeceutics
7. Packaging Technology
8. Any other emerging area availing local expertise of Pharmaceutical relevance.




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Annexure

Scheme of Examination for eight semesters of B. Pharm. Course Name and number of heads of passing, number of paper, duration of examination, maximum marks, minimum marks for passing, periodic tests, duration, maximum marks.

Semester-I

| Sub Code | Teaching Scheme | | | Examination Scheme | | | | | | |
|----------|--|---------------|-----------------|----------------------|---------------|-----------------|----------------|---------------|---------------------------------|-----------------------------------|
| | Subject | No. of Papers | Teaching Scheme | Semester Examination | | | Periodic tests | | Total Maximum Marks for subject | Minimum marks for passing subject |
| | | | | Duration (Hours) | Maximum marks | Min for passing | Duration Hours | Maximum marks | | |
| T1.1.1. | Pharmaceutics-I(Dispensing Pharmacy) | 1 | 4 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P1.1.1 | Pharmaceutics-I(Dispensing Pharmacy) | 1 | 3 | 4 | 80 | 32 | — | 20 | 100 | 40 |
| T1.1.2. | Pharmacognosy-I | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P1.1.2 | Pharmacognosy-I | 1 | 3 | 4 | 80 | 32 | — | 20 | 100 | 40 |
| T1.1.3 | Pharmaceutical Chemistry-I (Inorganic Pharmaceutical Chemistry) | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P1.1.3. | Pharmaceutical Chemistry-I (Inorganic Pharmaceutical Chemistry) | 1 | 3 | 4 | 80 | 32 | — | 20 | 100 | 40 |
| T1.1.4 | Applied Biostatistics & Computer Applications Pharmacy | 1 | 4 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P1.1.4 | Applied Biostatistics & Computer Applications Pharmacy | 1 | 3 | 4 | 80 | 32 | — | 20 | 100 | 40 |
| T1.1.5 | Communicating skills & soft Skills development | 1 | 4 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| Total | | TH-18 / PR-12 | | | | | | | | |



Semester-II

| Sub Code | Teaching Scheme Subject | No. of Papers | Teaching Scheme | Examination Scheme | | | | | | Total Maximum subject | Minimum for passing subject |
|---------------|---|---------------|-----------------|----------------------|---------------|-----------------|----------------|---------------|-----|--------------------------|-----------------------------|
| | | | | Semester Examination | | | Periodic tests | | | | |
| | | | | Duration (Hours) | Maximum marks | Min for passing | Duration Hours | Maximum marks | | | |
| T 1.2.1. | Pharmaceutics -II(Unit Operation) | 1 | 4 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P 1.2.1. | Pharmaceutics -II(Unit Operation) | 1 | 3 | 4 | 80 | 32 | — | 20 | 100 | 40 | |
| T 1.2.2 | Pharmaceutical Chemistry –II (Inorganic & Physical Chemistry) | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P 1.2.2. | Pharmaceutical Chemistry –II (Inorganic & Physical Chemistry) | 1 | 3 | 4 | 80 | 32 | — | 20 | 100 | 40 | |
| T 1.2.3 | Pharmaceutical Chemistry-III (Organic Chemistry-I) | 1 | 4 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P 1.2.3. | Pharmaceutical Chemistry-III (Organic Chemistry-I) | 1 | 3 | 4 | 80 | 32 | — | 20 | 100 | 40 | |
| T 1.2.4 | Anatomy, Physiology & Health Education (APHE) – I | 1 | 4 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P 1.2.4. | Anatomy, Physiology & Health Education (APHE) – I | 1 | 3 | 4 | 80 | 32 | — | 20 | 100 | 40 | |
| T 1.2.5 | Industrial Psychology | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| 5555 | Environmental Science | 1 | 3 | 3 | 80 | 32 | — | 20 | 100 | 40 | |
| TOTAL- | | | | TH-18 / PR-12 | | | | | | | |

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Semester-III

| Sub Code | Subject | Teaching Scheme | | | Examination Scheme | | | | | Total Maximum subject | Minimum for passing subject |
|----------------|--|-----------------|-----------------|----------------------|--------------------|-----------------|----------------|---------------|-----|-----------------------|-----------------------------|
| | | No. of Papers | Teaching Scheme | Semester Examination | | | Periodic tests | | | | |
| | | | | Duration (Hours) | Maximum marks | Min for passing | Duration Hours | Maximum marks | | | |
| T 2.3.1 | Pharmaceutics-III (Physical Pharmacy-I) | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P 2.3.1 | Pharmaceutics-III (Physical Pharmacy-I) | 1 | 3 | 4 | 80 | 32 | --- | 20 | 100 | 40 | |
| T 2.3.2 | Pharmaceutical Chemistry-IV (Organic Chemistry - II) | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P 2.3.2 | Pharmaceutical Chemistry-IV (Organic Chemistry - II) | 1 | 3 | 4 | 80 | 32 | --- | 20 | 100 | 40 | |
| T 2.3.3 | Pharmacognosy -II | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P 2.3.3 | Pharmacognosy -II | 1 | 3 | 4 | 80 | 32 | --- | 20 | 100 | 40 | |
| T 2.3.4 | Pharmaceutical Analysis - I | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P 2.3.4 | Pharmaceutical Analysis - I | 1 | 3 | 4 | 80 | 32 | --- | 20 | 100 | 40 | |
| T 2.3.5 | A P H E-II | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P 2.3.5 | A P H E-II | 1 | 3 | 4 | 80 | 32 | --- | 20 | 100 | 40 | |
| T 2.3.6 | Pathophysiology of Common Diseases-I | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| TOTAL-- | | | | | | | Th 18 / Pr 15 | | | | |

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Semester-IV

| Teaching Scheme | | | | Examination Scheme | | | | | | Total Maximum subject | Minimum for passing subject |
|-----------------|---|---------------|-----------------|----------------------|---------------|-----------------|----------------|---------------|-----|-----------------------|-----------------------------|
| Sub Code | Subject | No. of Papers | Teaching Scheme | Semester Examination | | | Periodic tests | | | | |
| | | | | Duration (Hours) | Maximum marks | Min for passing | Duration Hours | Maximum marks | | | |
| T.2.4.1. | Pharmaceutics - IV((Physical Pharmacy-II) | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P.2.4.1. | Pharmaceutics - IV((Physical Pharmacy-II) | 1 | 3 | 4 | 80 | 32 | --- | 20 | 100 | 40 | |
| T.2.4.2. | Pharmaceutical Microbiology | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P.2.4.2. | Pharmaceutical Microbiology | 1 | 3 | 4 | 80 | 32 | --- | 20 | 100 | 40 | |
| T.2.4.3. | Pharmacognosy - III | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P.2.4.3. | Pharmacognosy -III | 1 | 4 | 4 | 80 | 32 | --- | 20 | 100 | 40 | |
| T.2.4.4. | Pharmaceutics -V (Hospital Pharmacy) | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P.2.4.4. | Pharmaceutics -V (Hospital Pharmacy) | 1 | 3 | 4 | 80 | 32 | --- | 20 | 100 | 40 | |
| T.2.4.5. | Pharmaceutical Chemistry - V (Biochemistry) | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P.2.4.5. | Pharmaceutical Chemistry - V (Biochemistry) | 1 | 3 | 4 | 80 | 32 | --- | 20 | 100 | 40 | |
| T.2.4.6. | Pathophysiology of Common Diseases-II | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| TOTAL- | | | | | | | Th 18 / Pr 15 | | | | |



Semester V

| Teaching Scheme | | | | Examination Scheme | | | | | | |
|-----------------|--|---------------|-----------------|----------------------|---------------|-----------------|----------------|---------------|-----------------------|-----------------------------|
| Sub Code | Subject | No. of Papers | Teaching Scheme | Semester Examination | | | Periodic tests | | Total Maximum subject | Minimum for passing subject |
| | | | | Duration (Hours) | Maximum marks | Min for passing | Duration Hours | Maximum marks | | |
| T 3.5.1 | Pharmaceutical Chemistry – VI (Medicinal Chemistry - I) | 1 | 4 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P 3.5.1 | Pharmaceutical Chemistry – VI (Medicinal Chemistry - I) | 1 | 3 | 4 | 80 | 32 | — | 20 | 100 | 40 |
| T 3.5.2 | Pharmaceutics – VI (Pharmaceutical Technology I) | 1 | 4 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P 3.5.2 | Pharmaceutics – VI (Pharmaceutical Technology I) | 1 | 3 | 4 | 80 | 32 | — | 20 | 100 | 40 |
| T 3.5.3 | Pharmacology – I | 1 | 4 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P 3.5.3 | Pharmacology – I | 1 | 3 | 4 | 80 | 32 | — | 20 | 100 | 40 |
| T 3.5.4 | Pharmacognosy –IV | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P 3.5.4 | Pharmacognosy –IV | 1 | 3 | 4 | 80 | 32 | — | 20 | 100 | 40 |
| T 3.5.5 | Pharmaceutical Analysis-II | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P 3.5.5 | Pharmaceutical Analysis-II | 1 | 3 | 4 | 80 | 32 | — | 20 | 100 | 40 |
| TOTAL— | | | | | | | Th 18 / Pr 15 | | | |



Semester-VI

| Teaching Scheme | | | | Examination Scheme | | | | | | |
|-----------------|---|---------------|-----------------|----------------------|---------------|-----------------|----------------|---------------|-----------------------|-----------------------------|
| Sub Code | Subject | No. of Papers | Teaching Scheme | Semester Examination | | | Periodic tests | | Total Maximum subject | Minimum for passing subject |
| | | | | Duration (Hours) | Maximum marks | Min for passing | Duration Hours | Maximum marks | | |
| T 3.6.1. | Pharmaceutical Chemistry - VII (Medicinal Chemistry -II) | 1 | 4 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P 3.6.1. | Pharmaceutical Chemistry - VII (Medicinal Chemistry - II) | 1 | 3 | 4 | 80 | 32 | — | 20 | 100 | 40 |
| T 3.6.2. | Pharmaceutics -VII (Bio pharmaceuticals & Pharmacokinetics) | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P. 3.6.2. | Pharmaceutics -VII (Bio pharmaceuticals & Pharmacokinetics) | 1 | 3 | 3 | 80 | 32 | — | 20 | 100 | 40 |
| T 3.6.3. | Pharmacology -II | 1 | 4 | 4 | 80 | 32 | 1 | 20 | 100 | 40 |
| P 3.6.3. | Pharmacology -II | 1 | 3 | 3 | 80 | 32 | — | 20 | 100 | 40 |
| T 3.6.4. | Pharmacognosy - V (Chemistry of Natural Products) | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P 3.6.4. | Pharmacognosy - V (Chemistry of Natural Products) | 1 | 3 | 4 | 80 | 32 | — | 20 | 100 | 40 |
| T 3.6.5. | Pharmaceutical Jurisprudence & Ethics | 1 | 4 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P.3.6.6 | Project Report | Grade A/B/C | | | | | Th 18 / Pr 12 | | | |
| Total | | | | | | | | | | |



Semester-VII

| Teaching Scheme | | | | | Examination Scheme | | | | | | |
|-----------------|--|----------------|-------------------|----------------------|--------------------|-----------------|----------------|----------------|------------------------|-----------------------------|--|
| Sub Code | Subject | No. of Pa pers | Teach ing Sche me | Semester Examination | | | Periodic tests | | Total Maximu m subject | Minimum for passing subject | |
| | | | | Duration (Hours) | Maximu m marks | Min for passing | Duration Hours | Maximu m marks | | | |
| T 4.7.1. | Pharmaceutics – VIII (Pharmaceutical Technology - II) | 1 | 3 | 4 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P. 4.7.1. | Pharmaceutics – VIII (Pharmaceutical Technology - II) | 1 | 3 | 3 | 80 | 32 | --- | 20 | 100 | 40 | |
| T 4.7.2. | Pharmaceutical Chemistry- VIII (Medicinal Chemistry – III) | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P 4.7.2 | Pharmaceutical Chemistry-VIII (Medicinal Chemistry – III) | 1 | 3 | 4 | 80 | 32 | --- | 20 | 100 | 40 | |
| T 4.7.3. | Pharmacology –III | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P 4.7.3. | Pharmacology –III | 1 | 3 | 4 | 80 | 32 | --- | 20 | 100 | 40 | |
| T.4.7.4. | Pharmaceutical Analysis-III | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| P.4.7.4. | Pharmaceutical Analysis-III | 1 | 3 | 4 | 80 | 32 | --- | 20 | 100 | 40 | |
| T 4.7.5. | Pharmaceutical Biotechnology | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| T 4.7.6. | Pharmaceutical Industrial Management | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 | |
| TOTAL- | | | | | | | Th 18/ Pr 12 | | | | |

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 Trimurti Institute of Pharmacy
 Gat No. 225/226, Palodhi Bk
 Changanassery

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Semester-VIII

| Teaching Scheme | | | | Examination Scheme | | | | | | |
|-----------------|--|---------------|-----------------|----------------------|---------------|-----------------|----------------|---------------|-----------------------|-----------------------------|
| Sub Code | Subject | No. of Papers | Teaching Scheme | Semester Examination | | | Periodic tests | | Total Maximum subject | Minimum for passing subject |
| | | | | Duration (Hours) | Maximum marks | Min for passing | Duration Hours | Maximum marks | | |
| T 4.8.1. | Pharmaceutics – IX | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P 4.8.1. | Pharmaceutics – IX | 1 | 3 | 4 | 80 | 32 | --- | 20 | 100 | 40 |
| T 4.8.2. | Pharmaceutical Analysis – IV | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P 4.8.2. | Pharmaceutical Analysis – IV | 1 | 3 | 4 | 80 | 32 | --- | 20 | 100 | 40 |
| T 4.8.3. | Pharmaceutical Chemistry –IX (Medicinal Chemistry- IV) | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P 4.8.3. | Pharmaceutical Chemistry – IX (Medicinal Chemistry- IV) | 1 | 3 | 4 | 80 | 32 | --- | 20 | 100 | 40 |
| T 4.8.4. | Pharmacognosy – VI | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| P. 4.8.4. | Pharmacognosy – VI | 1 | 3 | 4 | 80 | 32 | --- | 20 | 100 | 40 |
| T.4.8.5. | Pharmacology - IV (Clinical Pharmacy & Drug Interactions) | 1 | 3 | 3 | 80 | 32 | 1 | 20 | 100 | 40 |
| T.4.8.6. | Elective(Theory) | | | | | | | | | |
| P.4.8.7. | Industrial training report | | | | | | | | | |
| TOTAL-- | | | | Grade A/B/C | | | | Th 18 Pr 12 | | |

Industrial Training Report & Project Report grade will be awarded as follow

Grade A : Excellent

Grade B : Good

Grade C : Poor

Above both the report can be completed during T.Y. / Final B. Pharm.

For project report one project should be given in group of 3 Students. Under one teacher. 5-7 group can study and complete their project. During final Year (VIII Sem.) oral examination will be conducted by appointing External Examiner from Industry or Academic for both the project and grades will be allotted individually.

- * Elective subjects
1. Pharm. Marketing
 2. Medicinal Plant Biotechnology
 3. Quality Assurance
 4. Drug Design and Lead Identification
 5. Bioavailability and TDM
 6. Cosmeceutics
 7. Packaging Technology
 8. Any other emerging area availing local expertise of Pharmaceutical relevance.



Principal

A handwritten signature in blue ink, appearing to be "D. Singh".

Trimurti Institute of Pharmacy
Gat No. 225/226, Paldhi Bk.,
Tal. Dharangaon, Dist. Jalgaon