

**UNIVERSITY OF PUNE**  
**FACULTY OF PHARMACEUTICAL SCIENCES**



**MASTER OF PHARMACY (M. Pharm.) in**

- 1. Pharmaceutics**
- 2. Pharmaceutical Chemistry**
- 3. Pharmacology**
- 4. Pharmacognosy**
- 5. Quality Assurance Techniques**

**COURSE STRUCTURE & SYLLABI**

(EFFECTIVE FROM ACADEMIC YEAR 2008-09)

## **I. NOMENCLATURE:**

University of Pune offers Master of Pharmacy (M. Pharm) course of two years (four semesters) duration in the following specialization.

1. Pharmaceutics
2. Pharmaceutical Chemistry
3. Pharmacology
4. Pharmacognosy
5. Quality Assurance Techniques

## **II. ELIGIBILITY:**

The eligibility for admission to the M Pharm course is as under:

The candidate who has passed the examination for the degree of B. Pharm of University of Pune or any other statutory University, recognized as equivalent thereto by this university, with at least 60% marks will be eligible for admission to one of the specializations of pharmacy mentioned above.

The post-graduate student in the faculty of Pharmaceutical Sciences will not be permitted to register his/her name simultaneously for Diploma or Degree Course of University of Pune or any other College / Institution.

## **III. FEES:**

The Fees and deposits shall be as prescribed by the competent Authority appointed by Govt of Maharashtra.

## **IV. SCHEME OF TEACHING AND EXAMINATION:**

The scheme of Teaching and Examination for M. Pharm. First, Second, Third and Fourth Semester shall be as follows:

## **V. DURATION:**

The duration of M. Pharm: Course is of two years consisting of four semesters. Each semester is of six months duration.

## **VI. GRANT OF TERMS:**

The candidate will be granted a term provided he/she has satisfactorily completed the prescribed course of study & has kept 75% attendance for theory & practical (wherever applicable) separately for each subject. Similarly the student will have to keep 75% attendance for guest Lectures, Seminars, Group Discussion, Journal Club activities etc.

## **VII. SEMINAR:**

The candidate for M. Pharm. course will have to give seminar in each semester. The topics for the seminar during First, Second, Third Semester & Fourth Semester will be as under:

First Semester: Seminar topics to be selected from the papers of specialization.

Second Semester: Seminar topics to be selected from the papers of specialization.

Third Semester: Seminar on the introduction of dissertation.

Fourth Semester: Seminar will be on entire work of dissertation.

The duration of the seminar will be about 1 hour. The candidate will have to give seminar with the help of audio visual aids. Evaluation of Seminar: Seminar will be evaluated by two recognized Post-graduate teachers of the subject of specialization, ordinarily one of whom will be the guide of the student. The two examiners will jointly award grade for the seminar as follows:

Grade 'O': 80% or more marks.

Grade 'A': 60% and above but less than 80%.

Grade 'B': 50% and above but less than 60%.

The candidate securing less than 50 % marks is treated as failed. If the candidate fails to secure minimum 'B' Grade in the seminar, he/she will have to give the seminar in the next semester. The grade secured by the candidate in the seminar will be communicated to the University for showing in the statement of marks of the concerned semester.

## **VIII. DISSERTATION:**

The topics for the dissertation shall be assigned by the Guide, a recognized Post-graduate Teacher, within one month of the beginning of second semester. Every candidate presenting himself/herself for the M. Pharm. fourth semester examination is required to submit four typewritten copies of the dissertation duly certified by the Guide. Out of four copies of dissertation, one copy is to be submitted in the college Library. The dissertation also needs to be certified by the Principal of the college. The dissertation is to be submitted not before 23 months from the date of commencement of first term of M. Pharm Course. If candidate fails to submit his/her dissertation within 27 months, he/she will have to submit dissertation in subsequent semester. The Principal of the concerned College/Institute will forward the dissertation to the University office.

There shall be not more than six submissions of dissertations in one academic year under each fulltime recognized PG guide. Fulltime recognised PG Teacher/Guide from other institute shall submit not more than two dissertations in a one academic year.

If the subject of dissertation entails collaboration with other departments or specialties, the collaborative portion of the work will be supervised by Co-Guide, designated by the Principal of the College/Institute in consultation with the Guide. Where a Co-Guide is involved, the dissertation will be certified jointly by the Guide & Co-guide.

The Guide or any other Recognized Post-graduate teacher in the subject (Internal Examiner) and an External Examiner appointed by the University will examine the dissertation. The Examiners will jointly assign the marks for dissertation out of 300 (including viva-voce of 100 marks). The allotment of marks of the dissertation shall be as under.

|                               |           |
|-------------------------------|-----------|
| 1. Reference Work             | 30        |
| 2. Experimental Work          | 60        |
| 3. Scientific contents        | 40        |
| 4. Presentation/Communication | 20        |
| 5. Result/Conclusion          | 50        |
| -----                         |           |
|                               | 200 marks |

#### **IX. VIVA-VOCE:**

The candidates will have to appear for Viva-Voce on dissertation. This test will be of 100 marks. The student will have to defend the dissertation. The examiners will jointly assign the marks for Viva-voce. The allotment of marks for Viva-voce shall be as under:

|                               |           |
|-------------------------------|-----------|
| 1. Scientific contents        | 30        |
| 2. Presentation/Communication | 30        |
| 3. Discussion & Defense       | 40        |
| -----                         |           |
|                               | 100 marks |

#### **X. STANDARD OF PASSING:**

A candidate for the degree of Master of Pharmacy will have to pass M. Pharm. First Semester, M. Pharm. Second Semester M. Pharm. Third Semester and Fourth Semester Examination, after keeping terms as laid down.

To pass M. Pharm. First Semester as well as Second Semester Examination, the candidate must obtain minimum 50% marks separately in theory and in practical (including internal assessment), provided he/she must obtain minimum 40 % marks in University theory examination & 45 % in practical examination. Further, the candidate must secure minimum 'B' Grade in the seminars of First, Second & Third Semesters.

To pass M. Pharm. Fourth Semester Examination, candidate must obtain 50% of the total marks for dissertation and Viva-voce on dissertation i.e. the candidate must secure at least 100 marks out of 200 for dissertation & 50 marks out of 100 for Viva-voce on dissertation M. Pharm. First and Second Semester Examinations will be held twice a year.

#### **XI. INTERNAL ASSESSMENT:**

The College/Institute will conduct one Internal Examination of 20 marks for Theory and Practical (wherever applicable) during First and Second Semester to assess the performance of the students.

## **XII. A.T.K.T/BACKLOG:**

A candidate can proceed from M. Pharm. First Semester to M. Pharm Second Semester, irrespective of the number of subjects in which he/she has failed. A candidate is allowed to proceed from M. Pharm. Second Semester to M. Pharm. Third Semester, irrespective of the number of subjects in which he/she has failed in First & Second Semester. A candidate is also allowed to continue his/her research work and submit the dissertation irrespective of the subjects he/she has failed in first, second and third semester, however overall result of the M. Pharm examination will be considered as fail until he/she has passed the M. Pharm First, Second, Third Semester Examinations.

A candidate who has failed to pass M.Pharm. fourth Semester Examination is required to keep minimum one fresh semester and can reappear for the examination after submitting the revised dissertation, if necessary, on submission of a new application and payment of the fresh fee for the examination.

## **XIII. AWARD OF CLASS:**

Successful candidates shall be awarded the class as under after adding the marks of M. Pharm. First, Second, Third and Fourth Semester Examination.

**First Class with Distinction:** 70% or more of the Grand Total.

**First Class:** 60% of the Grand Total but Less than 70%.

**Second Class:** 50 % of grand total but less than 60%

The degree awarded shall be Master of Pharmacy, indicating the specialization in bracket. Only those candidates who have passed the whole examination at one and the same sitting will be eligible for any prize or Scholarship to be awarded at the examination. The first five out of the final merit list of successful candidate will be shown in the notification of the result of the examination declared by the University.

## **XIV. IMPROVEMEMNT OF CLASS:**

If candidate wish to improve the class, he/she shall be allowed to do so in maximum three consecutive attempts in university theory examination within maximum five years from date of declaration of his final result.