

Enclosure to Item No. 4147  
13/11/07

# UNIVERSITY OF MUMBAI



## Ordinances, Regulations and Revised Scheme of B.Pharm. Degree Course (Sem, I to VIII)



(with effect from the academic year 2007-2008)

\*

## UNIVERSITY OF MUMBAI

Ordinances Regulations and Syllabi relating to the Degree of Bachelor of Pharmacy (B.Pharm) Course (Revised) (with effect from academic year 2007-2008)

Title of the course : Bachelor of Pharmacy

**Abbreviation : B. Pharm.**

Type of course : A Four Year Degree Course

Pattern : Semester

Duration of the course : Four Years. Divided into Eight Semesters, with two Semesters per year (Sem. I to VIII)

Nomenclature of semesters/  
Years : 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)

O5694 Entry levels into the course, eligibility criteria, admission authority and  
1 procedures.

Entry levels **into the course will be at the beginning of the Semester-I or at the beginning of the Semester-III (for candidates who have passed Diploma in Pharmacy Examination).**

O5695 **Eligibility Criteria for admission at the entry level at Semester-I into the**  
2 **course.**

Eligibility criteria for Maharashtra State Candidate and Outside Maharashtra State Candidate for admission to first year of degree course in Pharmacy. Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with - subjects English, Physics, Chemistry and Biology/Mathematics AND Secured(minimum 50% marks, i.e. not less than 150 marks out of 300 marks (minimum 45% marks i.e. not less than 135 marks out of 300 marks in case of candidates of Backward class categories belonging only to Maharashtra State) in the subjects Physics, Chemistry **and Biology/Mathematics** added together

(Maximum of marks Obtained in Biology /Mathematics shall be considered for the purpose of addition) AND Obtained a non zero score at MHT-CET 2007.

Eligibility criteria of Candidates who have passed/passing Diploma in Pharmacy and seeking admission First Year of Pharmacy:

Diploma holders who have passed the Diploma course in Pharmacy with minimum of 50% marks and medium of instruction as English from the Polytechnics affiliated to MSBTF or AICTE approved autonomous Polytechnics in Maharashtra State (for Maharashtra State Candidates) or such polytechnics situate inside/outside the State of **Maharashtra** (for Outside Maharashtra State Candidates)

O5696  
3 Eligibility Criteria for Direct Admission at the entry level of Semester-III (i.e. the Second Year B. Pharm) of 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 First\_Class (60% i.e. 600 out of 1000 at part-II examination for the Diploma in Pharmacy Course) as per ER-91 (i.e. post HSC two year Diploma Course) be held eligible for admission to Semester-III.

O\_\_4 Admission authority and procedure at the entry levels into the course. As per the directives of Government of Maharashtra / Director of Technical Education (Maharashtra State) prevailing at the time of admission.

R5672  
1 A candidate to be eligible for the Degree of Bachelor of Pharmacy will be required to pass examination, 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

Final Year B. Pharm Semester - VII & Semester - VIII



R5677 Duration of examinations, Marks etc. (See examination scheme at Annexure – I)  
6

R5678 **Allowed to Keep Term (A.T.K.T.) rules:**

7 No candidate will be admitted to any examination unless he/she keeps term at the college affiliated to the University.

ATKT rules are applicable only to those candidates who have appeared for the examination in all the subject heads.

R5679 A candidate failing in not more than two theory and one practical heads of  
8 semester I & II shall be promoted to Semester III. However, if he/she fails in more than two theory and one practical heads of Semester I & II taken together he will not be promoted to Semester III until the number of failure subject heads is two theory and one practical heads of Semester I & II taken together or less.

R5680 A candidate failing in not more than two theory and one practical heads of  
9 semester III & IV shall be promoted to Semester V provided he/she cleared all the subjects of Semester – I and II. However, if he/she fails in more than two theory and one practical heads of Semester III & IV taken together he will not be promoted to Semester V until the number of failure subject heads is two theory and one practical heads of Semester III & IV taken together or less.

R5681 A candidate failing in not more than two theory and one practical heads of  
10 semester V & VI shall be promoted to Semester VII provided he/she cleared all the subjects of Semester – I and IV.. However, if he/she fails in more than two theory and one practical heads of Semester V & VI taken together he will not be promoted to Semester VII until the number of failure subject heads is two theory and one practical heads of Semester V & VI taken together or less.

R5682 A candidate failing in Semester – I, III, V & VII shall be promoted to next  
11 higher semester i.e., IV, VI and VIII irrespective of the number of subject heads in which he/she is failing.

**R5683**    **Criteria for admitting the candidate for examinations irrespective of**  
12            **regular or supplementary examination:**

Candidate must have been admitted to the respective semester as per the criteria for continuation into the respective semester given and has kept the term for the semester for which he/she is examined.

The candidate must submit prescribed application form along with fees.

Candidate 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 supplementary 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.

Those candidates who have passed in all the subjects but failed due to not getting over 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 the subject head in which the candidate has failed.

**R5684**    **Periodic Tests:**

13

To ensure uniform attention of the student of their work throughout each semester of their study, Periodic tests will be conducted for each semester and

**Conducting authority for all the eight semesters:**

Institutes conducting the course.

**Number of tests:**

One periodic test as per the examination scheme (see Annexure – I) for each semester.

**Time Schedule:**

After completion of at least two thirds of the semester instruction weeks.

R5685 14 There will not be any Retest/Improvement Test/or supplementary test for the periodic tests.

R5686 15 Any candidate remaining absent for the periodic test for any reason what so ever will be treated as not appeared for the test and treated at par with other candidates who have appeared for all the tests. No separate examination will be conducted and only Not appeared in the test will be mentioned in the marksheet. Candidate who have ATKT or failed in the subjects/will only be allowed to reappear for the periodic test. In case the candidate reappears for the periodic test. Only fresh marks will be considered and the candidates forfeit the marks obtained in the previous examinations in that subject head and those marks will not be reconsidered for any purpose again under any circumstances whatsoever.

**Marks criteria for passing and other conditions:**

R5687 **Passing criteria for each subject head:**

16

Maximum marks for each subject head, and minimum for assign the each subject head – See Examination Scheme (Annexure – I)

Candidate will be considered as passed in the subject head when the candidate fulfills the following two criteria considered together.

1. Has got Minimum Marks prescribed for the semester examination and
  2. Has got Minimum marks prescribed for combined semester and periodic test.
- (See Annexure – I)

Candidate will be considered as failed in the subject head if the candidate does not fulfill criteria 1 or 2 or both.

No separate passing is required for periodic test.

If a candidate's applications form for reappearing in the examination in a subject head is accepted, and the candidate appears in the examination fresh marks will be considered and the candidate forfeits the marks obtained in the previous examinations in that subject head and those marks will not be reconsidered for any purpose again under any circumstances what so-ever.

**R5688 Passing of the semester:**

17

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

**R5689 Number of attempts:**

18

A candidate is allowed a maximum of five attempts inclusive of first attempt to pass respective semester failing which the candidate has to discontinue the course.

**R5690 Degree will be awarded to the candidates who have passed all the eight semester.**

19

Class will be awarded to those candidates who have passed semesters-VII in one and the same sitting and VIII also in one and the same sitting, and on the basis of combined marks of the Semester VII and VIII and the classes as under –



- |   |                              |
|---|------------------------------|
| i. Those obtaining 50% and above but<br>Below 60% of the total marks  | Second Class                 |
| ii. Those obtaining 60% and above but<br>below 70% of the total marks | First Class                  |
| iii. Those obtaining 70% of the total                                 | First Class with Distinction |

Such candidates who have not passed the semester – VII and / or VIII in one sitting and desires to get class awarded will be permitted to reappear the examination in all the subject heads on payment of fees with fresh applications. Such candidates will be treated as per with fresh candidates and result of this examination will only be considered for all purpose. However the candidate will forfeit all the previous marks and result of all the subject head of the semester of which he has repapered for the examination.

The periodic test marks will be carried forward.

**R5691 Withholding of results**

20

Candidates results will be with held under the following situations and of the respective semester:

**Result of Semester III will be with held if the candidate has not passed Semester – I**

**Result of Semester IV will be with held if the candidate has not passed Semester – II**

**Result of Semester V will be with held if the candidate has not passed Semester – I, Semester - II and Semester - III**

**Result of Semester VI will be with held if the candidate has not passed Semester – I, Semester – II, Semester – III and Semester – VI**

**Result of Semester VII** will be with held if the candidate has not passed Semester – I, Semester – II, Semester – III, Semester – IV and Semester – V

**Result of Semester VIII** will be with held if the candidate has not passed Semester – I, Semester – II, Semester – III, Semester – IV, Semester – V, Semester - VI, and Semester – VII

R5692 **Candidates who remain absent for the examinations/periodic tests:**

21

If a candidate does not appear for the semester examinations in one or more subject heads in which the candidate's form is accepted for the examination the candidate will be declared as failed and is not eligible for ATKT (see under ATKT rules above if the candidate having ATKT remains absent in the subsequent examinations the ATKT continues. If the candidate remains absent for the periodic test, the candidate will be treated as par with the candidate who appeared for the test.

R5693 Exemption to appear for the examination:

22

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

R5694 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 number of subject heads the candidate desires.

23

R5695 Every candidate shall be required to work for at least four weeks in a Pharmaceutical Industry or Hospital or Pharmaceutical Research and Development organization or Public testing laboratory (Pharmaceuticals) at the end of the Semester – VI of the course of study, and shall submit satisfactory report of such work to the head of the candidate's institute.

24

## Annexure – I

Scheme of Examinations for eight semesters of B.Pharm Course

Name and number of heads of passing, number of papers, duration of examinations, maximum marks, minimum marks for passing, periodic test duration and maximum marks.

### SEMESTER – I

<b>THEORY PAPERS:</b>									
	Subject	No. of Papers	Semester Examination			Periodic Test		Total Maximum Marks for Subject	Minimum Marks for Passing the Subject
			Duration (Hours)	Maximum Marks	Minimum for Passing	Duration (Hours)	Maximum Marks		
Entry 1	Anatomy, Physiology and Pathophysiology - I	1	2	40	16	1	10	50	20
2	General Chemistry	1	2	40	16	1	10	50	20
3	Organic Chemistry - I	1	2	40	16	1	10	50	20
4	Physical Pharmacy - I	1	2	40	16	1	10	50	20
5	Pharmaceutics - I	1	2	40	16	1	10	50	20
6	Pharmaceutical Engineering - I	1	2	40	16	1	10	50	20
<b>PRACTICALS:</b>									
7	Organic Chemistry Laboratory - I	1	4	40	16	4	10	50	20
8	Physical Pharmacy Laboratory - I	1	4	40	16	4	10	50	20
9	Anatomy, Physiology and Pathophysiology Lab.	1	4	40	16	4	10	50	20
<b>Total Marks for the Semester</b>					<b>450</b>				
<b>Minimum Marks for passing the semester</b>					<b>225</b>				

## SEMESTER – II

<b>THEORY PAPERS:</b>									
	<b>Subject</b>	No. of Papers	Semester Examination			Periodic Test		Total Maximum Marks for Subject	Minimum Marks for Passing the Subject
			Duration (Hours)	Maximum Marks	Minimum for Passing	Duration (Hours)	Maximum Marks		
Entry 1	Organic Chemistry – II	1	2	40	16	1	10	50	20
2	Pharmaceutical Analysis – I	1	2	40	16	1	10	50	20
3	Physical Pharmacy – II	1	2	40	16	1	10	50	20
4	Pharmaceutics – II	1	2	40	16	1	10	50	20
5	Microbiology	1	2	40	16	1	10	50	20
<b>PRACTICALS:</b>									
6	Pharmaceutical Analysis Laboratory – I	1	4	40	16	4	10	50	20
7	Pharmaceutics Laboratory – I	1	4	40	16	4	10	50	20
8	Microbiology Laboratory	1	4	40	16	4	10	50	20
9	Physical Pharmacy Laboratory – II	1	4	40	16	4	10	50	20
<b>Total Marks for the Semester</b>					<b>450</b>				
<b>Minimum Marks for passing the semester</b>					<b>250</b>				

### SEMESTER – III

<b>THEORY PAPERS:</b>									
	<b>Subject</b>	No. of Papers	Semester Examination			Periodic Test		Total Maximum Marks for Subject	Minimum Marks for Passing the Subject
			Duration (Hours)	Maximum Marks	Minimum for Passing	Duration (Hours)	Maximum Marks		
Entry 1	Organic Chemistry – III	1	2	40	16	1	10	50	20
2	Pharmaceutical Analysis – II	1	2	40	16	1	10	50	20
3	Biochemistry – I	1	2	40	16	1	10	50	20
4	Pharmaceutics – III	1	2	40	16	1	10	50	20
5	Pharmaceutical Engineering – II	1	2	40	16	1	10	50	20
6	Mathematics – I	1	2	40	16	1	10	50	20
7	Anatomy, Physiology & Pathophysiology – III	1	2	40	16	1	10	50	20
<b>PRACTICALS:</b>									
8	Pharmaceutical Analysis Laboratory – II	1	4	40	16	4	10	50	20
9	Pharmaceutics Laboratory – II	1	4	40	16	4	10	50	20
10	Computer Laboratory	1	4	40	16	4	10	50	20
<b>Total Marks for the Semester</b>					<b>500</b>				
<b>Minimum Marks for passing the semester</b>					<b>250</b>				

## SEMESTER – IV

<b>THEORY PAPERS:</b>									
	<b>Subject</b>	No. of Papers	Semester Examination			Periodic Test		Total Maximum Marks for Subject	Minimum Marks for Passing the Subject
			Duration (Hours)	Maximum Marks	Minimum for Passing	Duration (Hours)	Maximum Marks		
Entry	Pharmacology – I	1	2	40	16	1	10	50	20
2	Organic Chemistry – IV	1	2	40	16	1	10	50	20
3	Biochemistry – II	1	2	40	16	1	10	50	20
4	Dispensing Pharmacy	1	2	40	16	1	10	50	20
5	Mathematics – II	1	2	40	16	1	10	50	20
6	Psychology & Sociology	1	2	40	16	1	10	50	20
7	Anatomy, Physiology & Pathophysiology – III	1	2	40	16	1	10	50	20
<b>PRACTICALS:</b>									
8	Organic Chemistry Lab. – II	1	4	40	16	4	10	50	20
9	Dispensing Laboratory	1	4	40	16	4	10	50	20
10	Biochemistry Laboratory - I	1	4	40	16	4	10	50	20
<b>Total Marks for the Semester</b>					<b>500</b>				
<b>Minimum Marks for passing the semester</b>					<b>250</b>				

## SEMESTER – V

<b>THEORY PAPERS:</b>									
	<b>Subject</b>	No. of Papers	Semester Examination			Periodic Test		Total Maximum Marks for Subject	Minimum Marks for Passing the Subject
			Duration (Hours)	Maximum Marks	Minimum for Passing	Duration (Hours)	Maximum Marks		
Entry 1	Pharmaceutical Medicinal Chemistry – I	1	2	40	16	1	10	50	20
2	Biochemistry – III	1	2	40	16	1	10	50	20
3	Pharmacognosy – I	1	2	40	16	1	10	50	20
4	Pharmaceutics – IV	1	2	40	16	1	10	50	20
5	Hospital Pharmacy and DSM	1	2	40	16	1	10	50	20
6	Pharmacology – II	1	2	40	16	1	10	50	20
7	Pharmaceutical Biotechnology	1	2	40	16	1	10	50	20
<b>PRACTICALS:</b>									
8	Pharmaceutical Chemistry Lab. I	1	4	40	16	4	10	50	20
9	Pharmaceutics Lab. III	1	4	40	16	4	10	50	20
10	Biochemistry Lab. II	1	4	40	16	4	10	50	20
11	Pharmaceutical Biotechnology Lab.	1	4	40	16	4	10	50	20
<b>Total Marks for the Semester</b>					<b>550</b>				
<b>Minimum Marks for passing the semester</b>					<b>275</b>				

## SEMESTER – VI

<b>THEORY PAPERS:</b>									
	<b>Subject</b>	No. of Papers	Semester Examination			Periodic Test		Total Maximum Marks for Subject	Minimum Marks for Passing the Subject
			Duration (Hours)	Maximum Marks	Minimum for Passing	Duration (Hours)	Maximum Marks		
Entry 1	Pharmaceutical Medicinal Chemistry – II	1	2	40	16	1	10	50	20
2	Pharmaceutical Analysis – III	1	2	40	16	1	10	50	20
3	Pharmacognosy – II	1	2	40	16	1	10	50	20
4	Pharmaceutics – V	1	2	40	16	1	10	50	20
5	Cosmeticology	1	2	40	16	1	10	50	20
6	Pharmacology – III	1	2	40	16	1	10	50	20
7	Pharmaceutical Management	1	2	40	16	1	10	50	20
<b>PRACTICALS:</b>									
8	Pharmacology Laboratory – I	1	4	40	16	4	10	50	20
9	Pharmacognosy Laboratory – I	1	4	40	16	4	10	50	20
10	Cosmeticology Laboratory	1	4	40	16	4	10	50	20
<b>Total Marks for the Semester</b>					<b>500</b>				
<b>Minimum Marks for passing the semester</b>					<b>250</b>				



## SEMESTER – VII

<b>THEORY PAPERS:</b>									
	<b>Subject</b>	No. of Papers	Semester Examination			Periodic Test		Total Maximum Marks for Subject	Minimum Marks for Passing the Subject
			Duration (Hours)	Maximum Marks	Minimum for Passing	Duration (Hours)	Maximum Marks		
Entry 1	Pharmaceutical Medicinal Chemistry – III	1	2	40	16	1	10	50	20
2	Pharmaceutical Analysis – IV	1	2	40	16	1	10	50	20
3	Pharmacognosy – III	1	2	40	16	1	10	50	20
4	Pharmaceutics – VI	1	2	40	16	1	10	50	20
5	Biopharmaceutics & Pharmacokinetics	1	2	40	16	1	10	50	20
6	Pharmacology – IV	1	2	40	16	1	10	50	20
<b>PRACTICALS:</b>									
7	Pharmacology Laboratory – II	1	4	40	16	4	10	50	20
8	Pharmaceutical Chemistry Laboratory – II	1	4	40	16	4	10	50	20
9	Pharmacognosy Laboratory – II	1	4	40	16	4	10	50	20
10	Pharmaceutics Laboratory – IV	1	4	40	16	4	10	50	20
<b>Total Marks for the Semester</b>					<b>500</b>				
<b>Minimum Marks for passing the semester</b>					<b>250</b>				

## SEMESTER – VIII

<b>THEORY PAPERS:</b>									
	<b>Subject</b>	No. of Papers	Semester Examination			Periodic Test		Total Maximum Marks for Subject	Minimum Marks for Passing the Subject
			Duration (Hours)	Maximum Marks	Minimum for Passing	Duration (Hours)	Maximum Marks		
Entry 1	Pharmaceutical Medicinal Chemistry – IV	1	2	40	16	1	10	50	20
2	Pharmaceutical Analysis – V	1	2	40	16	1	10	50	20
3	Pharmacognosy – IV	1	2	40	16	1	10	50	20
4	Pharmaceutics – VII	1	2	40	16	1	10	50	20
5	Novel Drug Delivery Systems	1	2	40	16	1	10	50	20
6	Forensic Pharmacy & Jurisprudence	1	2	40	16	1	10	50	20
<b>PRACTICALS:</b>									
7	Pharmaceutics Laboratory – V	1	4	40	16	4	10	50	20
9	Pharmacognosy Laboratory – III	1	4	40	16	4	10	50	20
10	Pharmaceutical Analysis Laboratory – III	1	4	40	16	4	10	50	20
<b>Total Marks for the Semester</b>					<b>500</b>				
<b>Minimum Marks for passing the semester</b>					<b>250</b>				

**Annexure – II**  
**SUMMARY OF SYLLABUS**

**FIRST YEAR B. PHARM**

**SEMESTER – I**

<b>THEORY:</b>			
<b>Sr. No.</b>	<b>Subject</b>	<b>Hours/ Week</b>	<b>Maximum Marks</b>
1	Anatomy, Physiology And Pathophysiology – I	3	50
2	General Chemistry – I	3	50
3	Organic Chemistry – I	3	50
4	Physical Pharmacy – I	3	50
5	Pharmaceutics – I	3	50
6	Pharmaceutical Engineering – I	3	50
	<b>TOTAL</b>	<b>18</b>	<b>300</b>
<b>PRACTICALS:</b>			
7	Organic Chemistry Lab. – I	4	50
8	Physical Pharmacy Lab. – I	4	50
9	Anatomy, Physiology & Pathophysiology Lab.	4	50
	<b>TOTAL</b>	<b>12</b>	<b>150</b>

**SEMESTER – II**

<b>THEORY:</b>			
<b>Sr. No.</b>	<b>Subject</b>	<b>Hours/ Week</b>	<b>Maximum Marks</b>
1	Anatomy, Physiology And Pathophysiology – II	3	50
2	General Chemistry – II	3	50
3	Pharmaceutical Analysis – I	3	50
4	Physical Pharmacy – II	3	50
5	Pharmaceutics – II	3	50
6	Microbiology	3	50
	<b>TOTAL</b>	<b>18</b>	<b>300</b>
<b>PRACTICALS:</b>			
	Pharmaceutical Analysis Laboratory – I	4	50
	Pharmaceutics Laboratory – I	4	50
	Physical Pharmacy Laboratory – II	4	50
	Microbiology Laboratory	4	50
	<b>TOTAL</b>	<b>16</b>	<b>200</b>

## SECOND YEAR B. PHARM

### SEMESTER – III

<b>THEORY:</b>			
<b>Sr. No.</b>	<b>Subject</b>	<b>Hours/ Week</b>	<b>Maximum Marks</b>
1	Anatomy, Physiology And Pathophysiology – III	3	50
2	Organic Chemistry – II	3	50
3	Pharmaceutical Analysis –II	3	50
4	Biochemistry – I	3	50
5	Pharmaceutics – III	3	50
6	Pharmaceutical Engineering – II	3	50
7	Mathematics – I	3	50
	<b>TOTAL</b>	<b>21</b>	<b>350</b>
<b>PRACTICALS:</b>			
8	Pharmaceutical Analysis Laboratory – II	4	50
9	Pharmaceutics Laboratory – II	4	50
10	Computer Laboratory	4	50
	<b>TOTAL</b>	<b>12</b>	<b>150</b>

### SEMESTER – IV

<b>THEORY:</b>			
<b>Sr. No.</b>	<b>Subject</b>	<b>Hours/ Week</b>	<b>Maximum Marks</b>
1	Anatomy, Physiology And Pathophysiology – IV	3	50
2	Pharmacology – I	3	50
3	Organic Chemistry – IV	3	50
4	Biochemistry – II	3	50
5	Dispensing Pharmacy	3	50
6	Psychology And Sociology	3	50
7	Mathematics – I	3	50
	<b>TOTAL</b>	<b>21</b>	<b>350</b>
<b>PRACTICALS:</b>			
8	Organic Chemistry Laboratory – II	4	50
9	Dispensing Pharmacy Laboratory	4	50
10	Biochemistry Laboratory - I	4	50
	<b>TOTAL</b>	<b>12</b>	<b>150</b>

### THIRD YEAR B. PHARM

#### SEMESTER – V

<b>THEORY:</b>			
<b>Sr. No.</b>	<b>Subject</b>	<b>Hours/Week</b>	<b>Maximum Marks</b>
	Pharmacology – II	3	50
	Pharmaceutical Medicinal Chemistry – I	3	50
	Biochemistry – III	3	50
	Pharmacognosy – I	3	50
	Pharmaceutics – IV	3	50
	Hospital Pharmacy And DSM	3	50
	Pharmaceutical Biotechnology	3	50
	<b>TOTAL</b>	<b>21</b>	<b>350</b>
<b>PRACTICALS:</b>			
	Pharmaceutical Chemistry Laboratory – I	4	50
	Pharmaceutics Laboratory – III	4	50
	Biochemistry Laboratory – II	4	50
	Pharmaceutical Biotechnology Laboratory	4	50
	<b>TOTAL</b>	<b>16</b>	<b>200</b>

#### SEMESTER – VI

<b>THEORY:</b>			
<b>Sr. No.</b>	<b>Subject</b>	<b>Hours/Week</b>	<b>Maximum Marks</b>
	Pharmacology – III	3	50
	Pharmaceutical Medicinal Chemistry – II	3	50
	Pharmaceutical Analysis – III	3	50
	Pharmacognosy – II	3	50
	Pharmaceutics – V	3	50
	Cosmeticology	3	50
	Pharmaceutical Management	3	50
	<b>TOTAL</b>	<b>21</b>	<b>350</b>
<b>PRACTICALS:</b>			
	Pharmacology Laboratory – I	4	50
	Pharmacognosy Laboratory – I	4	50
	Cosmeticology	4	50
	<b>TOTAL</b>	<b>12</b>	<b>150</b>

## FINAL YEAR B. PHARM

### SEMESTER – VII

<b>THEORY:</b>			
<b>Sr. No.</b>	<b>Subject</b>	<b>Hours/Week</b>	<b>Maximum Marks</b>
1	Pharmaceutical Medicinal Chemistry – III	3	50
2	Pharmaceutical Analysis – IV	3	50
3	Pharmacognosy – III	3	50
4	Pharmaceutics – VI	3	50
5	Biopharmaceutics And Pharmacokinetics	3	50
6	Pharmacology – IV	3	50
	<b>TOTAL</b>	<b>18</b>	<b>300</b>
<b>PRACTICALS:</b>			
7	Pharmacology Laboratory – II	4	50
8	Pharmaceutical Chemistry Laboratory – II	4	50
9	Pharmaceutics Laboratory – IV	4	50
	<b>TOTAL</b>	<b>12</b>	<b>150</b>

### SEMESTER – VIII

<b>THEORY:</b>			
<b>Sr. No.</b>	<b>Subject</b>	<b>Hours/Week</b>	<b>Maximum Marks</b>
1	Pharmaceutical Medicinal Chemistry – IV	3	50
2	Pharmaceutical Analysis – V	3	50
3	Pharmacognosy – IV	3	50
4	Pharmaceutics – VII	3	50
5	Novel Drug Delivery System	3	50
6	Forensic Pharmacy and Jurisprudence	3	50
7	Clinical Pharmacy and Drug Interactions	3	50
	<b>TOTAL</b>	<b>21</b>	<b>350</b>
<b>PRACTICALS:</b>			
8	Pharmaceutics Laboratory – V	4	50
9	Pharmacognosy Laboratory – III	4	
10	Pharmaceutical Analysis Laboratory – II	4	50
	<b>TOTAL</b>	<b>12</b>	<b>150</b>