

CIRCULAR :-

A reference is invited to the Ordinances, Regulations and syllabi relating to the Bachelor of Pharmacy (B.Pharm.) degree course vide Pamphlet No.187 and to this office Circular No.UG/451 of 2003, dated 16th September, 2003 and the Director, Mumbai University Institute of Chemical Technology and the Principals of the affiliated colleges in Pharmacy are hereby informed that the recommendation made by the Ad-hoc Board of Studies in Pharmacy at its meeting held on 9th April, 2007 has been accepted by the Academic Council at its meeting held on 13th April, 2007 vide Item No.4.47 and subsequently approved by the Management Council at its meeting held on 20th April, 2007 vide Item No.26 and that in accordance therewith in exercise of the powers conferred upon the Management Council under Section 54(1) and Section 55(1) of the Maharashtra Universities Act 1994, it has ^{made} amended Ordinances 5694, 5695 and 5696 and Regulations 5672, 5673, 5674, 5675, 5676, 5677, 5678, 5679, 5680, 5681, 5682, 5683, 5684, 5685, 5686, 5687, 5688, 5689, 5690, 5691, 5692, 5693, 5694 and 5695 and revised scheme at the Bachelor of Pharmacy (Sem.I to VIII) (B.Pharm.) degree course is passed as per Appendix and that the same will be brought into force with effect from the academic year 2007-2008.

MUMBAI-400 032
3rd May, 2007

for I/c. REGISTRAR

To,

The Director, Mumbai University Institute of Chemical Technology and the Principals of the affiliated colleges in Pharmacy

A.C./4.47/13.04.2007
MC/26/20.04.2007

No.UG/175-A of 2007, MUMBAI-400 032 3rd May, 2007

Copy forwarded with compliments for information to :-

- 1) The Dear Faculty of Technology
- 2) The Chairman, Ad-hoc Board of Studies in Pharmacy

for I/c. REGISTRAR

Copy to :-

The Director, Board of College and University Development, the Deputy Registrar (Eligibility and Migration Section), the Director of Students Welfare, the Executive Secretary to the Vice-Chancellor, the P.A. to the Pro-Vice-Chancellor, and the Registrar and the Assistant Registrar, Administrative sub-center, Ratnagiri for information

The Officer on Special Duty and Controller of Examinations (10 copies), the Finance and Accounts Officer (2 copies), Record Section (5 copies), Publications Section (5 copies), the Deputy Registrar, Enrolment, Eligibility and Migration Section (3 copies), the Deputy Registrar, Statistical Unit (2 copies), the Deputy Registrar (Accounts Section), Vidyanagari (2 copies), the Deputy Registrar, Affiliation Section (2 copies), the Director, Institute of Distance Education, (10 copies) the Director University Computer Center (IDE Building), Vidyanagari, (2 copies) the Deputy Registrar (Special Cell), the Deputy Registrar (PRO), the Assistant Registrar, Academic Authorities Unit (2 copies) and the Assistant Registrar, Executive Authorities Unit (2 copies). They are requested to treat this as action taken report on the concerned resolution adopted by the Academic Council referred to in the above Circular and that no separate Action Taken Report will be sent in this connection. the Assistant Registrar Constituent Colleges Unit (2 copies), BUCT (1 copy), the Deputy Account, Unit V (1 copy), the In-charge Director, Centralize Computing Facility (1 copy), the Receptionist (1 copy), the Telephone Operator (1 copy), the Secretary MUASA (1 copy), the Superintendent, Post-Graduate Section (2 copies), the Superintendent, Thesis Section (2 copies)

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)

(1)

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)

5694
O— Entry levels into the course, eligibility criteria, admission authority and procedures.
1

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).

5695
O— Eligibility Criteria for admission at the entry level at Semester-I into the course.
2

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.

(2)

Eligibility criteria of Candidates who have passed/passing Diploma in Pharmacy and seeking admission to 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 MSBTE 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).

5696

- O-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.

5672

- R- A candidate to be eligible for the Degree of Bachelor of Pharmacy will be required to pass examination, as under:-

- 1 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

5673

- R- Duration of : Each semester will be normally of 15 weeks duration for class room
2 Semester teaching/ lectures and examination for that semester will be held during or after the 16th week after the commencement of the semester.

Examination:

Examination conducting authority:

Semester-I, semester-II, semester-III, semester-IV, semester V, and semester-VI will be conducted by the respective institutions where the candidate has been admitted following the University rules and regulations. The examinations of Semester-VII and Semester-VIII will be conducted by the University.

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3

(3)

R-5675
4
Principals of the respective college of pharmacy are authorized to compile and declare the results of semester I, II, III, IV, V and VI examinations on behalf of the university on or before the dates notified by the university. The regulations of the university relating to standards of passing will be applicable to the said examination.

R-5676
5
System of Moderation:

A moderation committee of senior faculty members from the colleges of pharmacy will be nominated by the university to monitor and moderate the results.

Regular and Supplementary Examinations and time:

Semester	Regular Examinations	Supplementary Examinations
I, III, V & VII	November/December	April/May
II, IV, VI & VIII	April/May	November/December

5677
R--- Duration of examinations, Marks, etc. (See examination scheme at Annexure -I)
6

5678
R--- **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.

5679
R--- A candidate failing in not more than two theory and one practical heads of semester I
8 & II shall be promoted to Semester-III. However, if he/she fails in more than two theory and one practical heads of Semester-I and 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.

5680
R--- A candidate failing in not more than two theory and one practical heads of semester III
9 & IV shall be promoted to semester -V provided he/she has 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/she 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.

5681
R--- A candidate failing in not more than two theory and one practical heads of semester V
10 and VI shall be promoted to semester-VII provided he/she has cleared all the subjects of Semester-I to IV. However, if he/she fails in more than two theory and one practical heads of semester-V & VI taken together he/she 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.

5682
R--- A candidate failing in Semester -I, III V & VII shall be promoted to next higher
11 semester i.e. II, IV, VI and VII irrespective of the number of subject heads in which he/she is failing.

R-5683
12

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 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 subjects 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.

R-5684
13

Periodic Tests:

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.

R-5685
14

There will not be any Retest / Improvement test / or Supplementary test for the periodic tests.

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. Candidates who have ATKT or failed in the subject/s 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 what-so-ever.

Marks, Criteria for passing and other conditions.

Passing criteria for each subject head:

Maximum marks for each subject head, and minimum for passing 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.

Passing of the semester:

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.)

Number of attempts:

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.

Award of the degree and class

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

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

- | | | | |
|-----|---|---|------------------------------|
| i | Those obtaining 50% and above but
Below 60% of the total marks | } | Second Class |
| ii | Those obtaining 60% and above but
below 70% of the total marks | } | First Class |
| iii | Those obtaining 70% of the total
marks and above | } | 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 application. Such candidate's will be treated at par 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 heads of the semester of which he has reappeared for the examination.

The periodic test marks will be carried forward.

Withholding of results

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-I and 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 -IV

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

R-⁵⁶⁹²
 21 Candidates who remain absent for the examinations/periodic tests:

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 at par with the candidate who appeared for the test.

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 22 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.

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 23 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.

R-⁵⁶⁹⁵
 24 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.

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, maximum marks.

THEORY PAPER'S									
SEMESTER - I									
Entry	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		
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
PRACTICALS									
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 & Pathophysiology Laboratory	1	4	40	16	4	10	50	20
Total Marks for the Semester					450				
Minimum marks for passing the semester					225				

SEMESTER – II

THEORY PAPERS

Entry	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		
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

PRACTICALS

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	Physical Pharmacy Laboratory II	1	4	40	16	4	10	50	20
9	Microbiology Laboratory	1	4	40	16	4	10	50	20

Total Marks for the Semester
Minimum marks for passing the semester

450
250

11

SEMESTER – III

THEORY PAPERS

Entry	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		
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

PRACTICALS

8	Pharmaceutical Analysis Lab. 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
Total Marks for the Semester					500				
Minimum marks for passing the semester					250				

SEMESTER – IV

THEORY PAPERS									
Entry	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		
1	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- IV	1	2	40	16	1	10	50	20
PRACTICALS									
8	Organic Chemistry Laboratory. 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
Total Marks for the Semester					500				
Minimum marks for passing the semester					250				

SEMESTER – V

THEORY PAPERS									
Entry	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		
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 & Drug Store Management	1	2	40	16	1	10	50	20
6	Pharmaceutical Biotechnology	1	2	40	16	1	10	50	20
7	Pharmacology II	1	2	40	16	1	10	50	20
PRACTICALS									
8	Pharmaceutical Chemistry Laboratory I	1	4	40	16	4	10	50	20
9	Pharmaceutics Laboratory III	1	4	40	16	4	10	50	20
10	Biochemistry Laboratory II	1	4	40	16	4	10	50	20
11	Pharmaceutical Biotechnology Laboratory	1	4	40	16	4	10	50	20
Total Marks for the Semester					550				
Minimum marks for passing the semester					275				

SEMESTER – VI

THEORY PAPERS

Entry	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		
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	Pharmaceutical Management	1	2	40	16	1	10	50	20
7	Pharmacology III	1	2	40	16	1	10	50	20

PRACTICALS

6	Pharmacology Laboratory I	1	4	40	16	4	10	50	20
7	Pharmacognosy Laboratory I	1	4	40	16	4	10	50	20
8	Cosmeticology Laboratory	1	4	40	16	4	10	50	20
Total Marks for the Semester					500				
Minimum marks for passing the semester					250				

15

SEMESTER – VII

THEORY PAPERS									
Entry	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		
1	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
PRACTICALS									
6	Pharmacology Laboratory II	1	4	40	16	4	10	50	20
7	Pharmaceutical Chemistry Laboratory II	1	4	40	16	4	10	50	20
8	Pharmacognosy Laboratory II	1	4	40	16	4	10	50	20
9	Pharmaceutics Laboratory IV	1	4	40	16	4	10	50	20
Total Marks for the Semester					500				
Minimum marks for passing the semester					250				

SEMESTER – VIII

THEORY PAPERS									
Entry	Subject	No. of papers	Semester Examination			Periodic Test		Total Maximum for Subject	Minimum for Passing the Subject
			Duration (hours)	Maximum Marks	Minimum for passing	Duration (Hours)	Maximum Marks		
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
PRACTICALS									
7	Pharmaceutics Laboratory. V	1	4	40	16	4	10	50	20
8	Pharmacognosy Laboratory. III	1	4	40	16	4	10	50	20
9	Pharmaceutical Analysis Laboratory. III	1	4	40	16	4	10	50	20
Total Marks for the Semester					500				
Minimum marks for passing the semester					250				

Annexure – II
SUMMARY OF SYLLABUS

FIRST YEAR B. PHARM

SEMESTER – I

THEORY			
No	Subject	Hours / Weeks	Maximum Marks
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
		18	300
PRACTICALS			
7	Organic Chemistry Lab. I	4	50
8	Physical Pharmacy Lab. I	4	50
9	Anatomy, Physiology & Pathophysiology Lab.	4	50
		12	150

SEMESTER – II

THEORY			
No	Subject	Hours / Weeks	Maximum Marks
1	Anatomy, Physiology and Pathophysiology – II	3	50
2	Organic 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
		18	300
PRACTICALS			
7	Pharmaceutical Analysis Laboratory – I	4	50
8	Pharmaceutics Laboratory – I	4	50
9	Physical Pharmacy Laboratory- II	4	50
10	Microbiology Laboratory	4	50
		16	200

SECOND YEAR B. PHARM
SEMESTER – III

THEORY			
No	Subject	Hours / Weeks	Maximum Marks
1	Anatomy, Physiology and Pathophysiology – III	3	50
2	Organic Chemistry – III	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
		21	350
PRACTICALS			
8	Pharmaceutical Analysis Laboratory II	4	50
9	Pharmaceutics Laboratory – II	4	50
10	Computer Laboratory	4	50
		12	150

SEMESTER – IV

THEORY			
No	Subject	Hours / Weeks	Maximum Marks
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	Mathematics – II	3	50
7	Psychology and Sociology	3	50
		21	350
PRACTICALS			
8	Organic Chemistry Laboratory – II	4	50
9	Dispensing Pharmacy Laboratory	4	50
10	Biochemistry Laboratory – I	4	50
		12	150

THIRD YEAR B. PHARM
SEMESTER – V

THEORY			
No	Subject	Hours / Weeks	Maximum Marks
1	Pharmacology II	3	50
2	Pharmaceutical Medicinal Chemistry I	3	50
3	Biochemistry III	3	50
4	Pharmacognosy I	3	50
5	Pharmaceutics IV	3	50
6	Hospital Pharmacy and DSM	3	50
7	Pharmaceutical Biotechnology	3	50
		21	350
PRACTICALS			
8	Pharmaceutical Chemistry Laboratory I	4	50
9	Pharmaceutics Laboratory – III	4	50
10	Biochemistry Laboratory – II	4	50
11	Pharmaceutical Biotechnology Laboratory	4	50
		16	200

SEMESTER – VI

THEORY			
No	Subject	Hours / Weeks	Maximum Marks
1	Pharmacology III	3	50
2	Pharmaceutical Medicinal Chemistry II	3	50
3	Pharmaceutical Analysis III	3	50
4	Pharmacognosy II	3	50
5	Pharmaceutics V	3	50
6	Cosmeticology	3	50
7	Pharmaceutical Management	3	50
		21	350
PRACTICALS			
8	Pharmacology Laboratory – I	4	50
9	Pharmacognosy Laboratory I	4	50
10	Cosmeticology Laboratory	4	50
		12	150

20

FINAL YEAR B. PHARM
SEMESTER – VII

THEORY			
No	Subject	Hours / Weeks	Maximum Marks
1	Pharmacology IV		
2	Pharmaceutical Medicinal Chemistry III	3	50
3	Pharmaceutical Analysis IV	3	50
4	Pharmacognosy III	3	50
5	Pharmaceutics VI	3	50
6	Biopharmaceutics and Pharmacokinetics	3	50
		3	50
	PRACTICALS	18	300
7	Pharmacology Laboratory II		
8	Pharmaceutical Chemistry Laboratory – II	4	50
9	Pharmacognosy Laboratory – II	4	50
10	Pharmaceutics Laboratory IV	4	50
		4	50
		16	200

SEMESTER – VIII

THEORY			
No	Subject	Hours / Weeks	Maximum Marks
1	Clinical Pharmacy & Drug Interaction	3	50
2	Pharmaceutical Medicinal Chemistry IV	3	50
3	Pharmaceutical Analysis V	3	50
4	Pharmacognosy IV	3	50
5	Pharmaceutics VII	3	50
6	New Drug Delivery Systems	3	50
7	Forensic Pharmacy and Jurisprudence	3	50
		21	350
	PRACTICALS		
8	Pharmaceutics Laboratory – V	4	50
9	Pharmacognosy Laboratory III	4	50
10	Pharmaceutical Analysis Laboratory III	4	50
		12	150

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