



राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठ

(सेंट्रल प्रोव्हिन्सेस शासन शिक्षण विभागाची अधिसूचना क्रमांक ५१३ दिनांक १ ऑगस्ट, १९२३ द्वारा स्थापित व महाराष्ट्र सार्वजनिक विद्यापीठ अधिनियम, २०१६ (सन २०१७ चा महाराष्ट्र विद्यापीठ अधिनियम, क्रमांक ६) द्वारा संचालित राज्य विद्यापीठ)

(विद्या विभाग)

राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठ जमनालाल बजाज प्रशासकिय भवन महात्मा जोतिबा फुले शैक्षणिक परिसर, विद्यापीठ कॅम्पस चौक ते अंबाझरी टी-पॉइंट मार्ग, नागपूर - ४४० ०३३.

अधिसूचना क्र. / रातुमनावि/विद्या/२०२२/

दिनांक: / ०७/२०२२

:: अधिसूचना ::

सर्व संबंधितांच्या माहितीकरीता सूचित करण्यात येते की, विज्ञान व तंत्रज्ञान विद्याशाखेअंतर्गत येणा-या औषधीनिर्माणशास्त्र अभ्यासमंडळांनी एम.फार्म.. या पदव्युत्तर औषधीशास्त्र अभ्यासक्रमाची, परीक्षा योजना, समायोजन योजना, व प्रारूप निदेश, तयार केले होते. यास प्रारूप निदेश समितीने अंतीमरूप देऊन दिनांक १२.०५.२०२२ रोजी नविन प्रारूप निदेश तयार करून मा. कुलगुरूंकडे मान्यतेकरिता सादर केले होते. मा. कुलगुरू महोदयांनी सदर प्रारूपास दिनांक ०१.०७.२०२२ रोजी मान्यता प्रदान करून महाराष्ट्र सार्वजनिक विद्यापीठ अधिनियम, २०१६ च्या कलम १२(८) अंतर्गत सर्व संबंधितांकरीता निदेश क्रमांक २६/२०२२ लागू केले आहे. करिता हि अधिसूचना निर्गमित करण्यात येत असून कृपया याची संबंधितांनी नोंद घ्यावी.

(टिप:- उपरोक्त निर्देश विद्यापीठाच्या, (www.nagpuruniversity.org) या संकेतस्थळावर उपलब्ध करण्यात आलेला आहे. कृपया संबंधितांनी नोंद घ्यावी)

मा. कुलगुरूंच्या आदेशान्वये



(डॉ. राजु हिवसे)

कुलसचिव

प्रतिलिपी माहिती व पुढील कार्यवाहीसाठी अग्रेषित:

१. औषधिनिर्माणशास्त्र महाविद्यालयाचे सर्व प्राचार्य व विभागप्रमुख
२. मा. अधिष्ठाता, विज्ञान व तंत्रज्ञान विद्याशाखा
३. औषधीनिर्माणशास्त्र अभ्यासमंडळ सदस्य
४. मा. संचालक, परिक्षा व मूल्यमापन मंडळ
५. उपकुलसचिव (परिक्षा,पुर्व व परिक्षा उपरांत),
६. सहायक कुलसचिव (गोपनीय),
७. सहायक कुलसचिव (व्यावसायिक परिक्षा)
८. अधिक्षक (निकाल विभाग),
९. उपकुलसचिव मा. कुलगुरूंचे कार्यालय
१०. स्वीय सहाय्यक, मा. प्र- कुलगुरूंचे कार्यालय
११. डॉ. प्रशांत माहेश्वरी, अधिष्ठाता विज्ञान व तंत्रज्ञान विद्याशाखा,
- ८ संचालक, बहु-सुविधा संगणक केंद्र

राष्ट्रसंत तुकडोजी महाराज
नागपूर विद्यापीठ, नागपूर.



RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

'Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1st of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017)

Direction No. 26 of 2022

ADMISSION AND EXAMINATIONS LEADING TO THE AWARD OF DEGREE OF MASTER OF PHARMACY (CREDIT AND GRADE BASED) (SEMESTER PATTERN COURSE), DIRECTION, 2022.

WHEREAS, Maharashtra Public Universities Act 2016 (VI of 2017) (hereinafter "Act") has come into force from 1st March 2017, repealing the Maharashtra Universities Act, 1994 and has been made applicable to the Rashtrasant Tukadoji Maharaj Nagpur University (hereinafter the "University");

AND

WHEREAS, the Pharmacy Council of India (herein after PCI), the apical and regulatory body for regulating the higher education in pharmaceutical sciences, has framed the Master of Pharmacy Course Regulations, 2014, prescribing the structure of the Master of Pharmacy Course offered by Universities in India;

AND

WHEREAS, the Special task committee in Pharmaceutical Sciences in its meeting held on 18th July 2017 accepted the syllabi of the Master in pharmacy course prescribed by the Pharmacy council of India and resolved to implement the same as per regulation 10 of the Master of pharmacy (M.Pharm) Course Regulations, 2014, of Pharmacy council of India from the academic session 2017-18;

AND

WHEREAS, the Dean of the Faculty of Science and Technology considered and approved the proposal of the Special Task Committee in Pharmaceutical Sciences, in the Faculty of Science and Technology, and recommended to the Vice-Chancellor to accept the syllabus and the Scheme of examinations for the course of Master of Pharmacy under section 12 (8) of the Act on behalf of the Academic Council and the Management council;

AND

WHEREAS, as per the provisions of section 73. of the Act an Ordinance is required to be framed for implementation of a new course/ revised syllabus of an existing course in the University but Ordinance making is a time consuming process;

AND

WHEREAS, section 12(8) of the Act empowers the Vice-Chancellor of the University to issue a Direction for regulating the matter for which a Statute / Ordinance / Regulations is not made or to amend the existing Statute / Ordinance / Regulations;

AND

WHEREAS, Direction No. 25 of 2020 was issued by the University but the same has lapsed after expiry of the period of six months by virtue of the provisions of proviso to section 12(8) of the Act and there is an exigency to issue a new Direction incorporating the provisions of the said lapsed Direction No. 25 of 2020;

AND

Now, therefore, I, Dr. Subhash R. Chaudhari, Vice – Chancellor, Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur, being satisfied about the exigency for issuing the Direction, in exercise of the powers vested in me under Section 12(8) of the Act do hereby issue the following Direction-

1. This direction shall be called **“ADMISSION AND EXAMINATIONS LEADING TO THE AWARD OF DEGREE OF MASTER OF PHARMACY (CREDIT AND GRADE BASED) (SEMESTER PATTERN COURSE), DIRECTION, 2022.”**
2. The Direction shall come into force with effect from the date of its issuance, however all the decisions and actions taken till date, under the lapsed direction shall be considered to

be performed under the authority of this Direction.

3. This Direction shall also govern the students who were admitted to the M. Pharm. course in the academic sessions 2018-2019 and onwards.

4. **Definitions:-**In this direction, unless the context otherwise requires:-

- a. **"Academic Council"** means Academic Council of R.T.M. Nagpur University.
- b. **"ATKT"** refers to allowed to keep term in higher semester
- c. **"Board of Studies"** means Board of Studies of the University in Pharmaceutical Sciences.
- d. **"Competent Authority"** (for admission purpose) means an "Authority" established or assigned the duty to regulate admissions in the course by the Government of Maharashtra
- e. **"Credit"** Credits (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and a multiplier of half (1/2) for practical (laboratory) hours. Thus, for example, a theory course having four lectures per week throughout the semester carries a credit of 4. Similarly, a practical having four laboratory hours per week throughout semester carries a credit of 2. The contact hours of seminars, assignments and research work shall be treated as that of practical courses for the purpose of calculating credits. i.e., the contact hours shall be multiplied by 1/2. Similarly, the contact hours of journal club, research work presentations and discussions with the supervisor shall be considered as theory course and multiplied by
- f. **"Credit Points"** refer to the product of No. of credits multiplied by the Grade Point for a given course/paper.
- g. **"Cumulative Grade Point Average (CGPA)"** refers to the Cumulative Grade Point Average weighted across all semesters (4 semesters)
- h. **"Degree"** means Post Graduate Degree in Pharmaceutical Sciences.
- i. **"Fees"** means the fees prescribed by the University/ Shikshan ShulkaSamiti of Government of Maharashtra, for the Post Graduate programme in Pharmaceutical Sciences, from time to time.
- j. **"Grade letter"** is an index to indicate the performance of a student in a particular course (Paper). It is the transformation of actual marks secured by a student in a course/paper. Grade letters are O, A, B, C, D, F, AB.

- k. **"Grade Point"** is the weightage allotted to each grade letter depending on the range of marks awarded in a course/paper.
- l. **"New Course"** means the M.Pharm course governed by this Direction.
- m. **"Old Course"** means the M.Pharm course governed by Direction No. 58 of 2016 and 31 of 2017.
- n. **"Post Graduate programmes"** means Master's degree course in Pharmaceutical Sciences.
- o. **"Semester Grade Point Average (SGPA)"** refers to the performance of the student in a given semester. SGPA is based on the total credit points earned by the student in all the courses and the total number of credits assigned to the courses/papers in a Semester.
- p. **"Student"** means student admitted to Post Graduate programme in Pharmaceutical Sciences under this direction.
- q. **"University"** means Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

5. Admission of students:-

- a. Admission to Post Graduate Programme in Pharmaceutical Sciences shall be governed by the Competent Authority.
- b. Admission to Post Graduate Programme in Pharmaceutical Sciences shall be on yearly basis (two semesters) for a particular academic session by paying prescribed fees.

6. Eligibility conditions for admission:-

(I) For Maharashtra Candidature Candidates and All India Candidature Candidates.—

- (i) The candidate should be an Indian National, and
- (ii) Passed Bachelor's Degree in Pharmacy from any All India Council for Technical Education or Pharmacy Council of India or Central or State; Government approved institution, with at least 55% marks (at least 50% marks in case of Backward Class category and Persons with Disability Candidates belonging to Maharashtra State only), and
- (iii) Obtained score in Graduates Pharmacy Aptitude Test (GPAT) conducted by All India Council for Technical Education. For a sponsored candidate, minimum of two years of full time work experience in a registered firm/ company/ industry/

educational and/ or research institute/ any Government Department or Government Autonomous Organization in the relevant field in which admission is being sought is necessary.

(II) For NRI / OCI/ PIO, Children of Indian workers in the Gulf countries, foreign National.-

- (i) Passed Bachelor's Degree in Pharmacy from any All India Council for Technical Education or Pharmacy Council of India or Central or State; Government approved institution, with at least 55% marks, and
- (ii) Any other criterion declared by competent authority from time to time.

Note:-1. Every student, selected for admission to post graduate pharmacy program in any PCI approved institution should have obtained registration with the State Pharmacy Council or should obtain the same within one month from the date of his/her admission, failing which the admission of the candidate shall be cancelled.

2. It is mandatory to submit a migration certificate issued by the university from where the candidates has obtained his/her qualifying degree (B.Pharm).

7. Duration of the programme:-

Duration of the Post Graduate Programme in Pharmaceutical Sciences shall be of four semesters (two academic years).

8. Medium of instructions and examinations:-

English shall be the medium of instructions and examinations for the programme.

9. Course Structure:-

The detail, semester wise, course structure shall be as given in **tables 1 to 15 in the Appendix I** of this Direction. The scope of each subject shall be as prescribed by the Pharmacy Council of India from time to time.

10. Program Committee:-

- 1) The M. Pharm. programme shall have a Programme Committee constituted by the Head of the institution in consultation with all the Heads of the departments.
- 2) The composition of the Programme Committee shall be as follows:

As far as possible a teacher in the cadre of Professor shall be the Chairperson and one teacher from each M.Pharm specialization and four student representatives (two from each academic year), nominated by the Head of the institution shall be the members of the committee.

3) Duties and functions of the Programme Committee:- Following shall be the duties and functions of the programme committee.

- i. Periodical review of the progress of the classes.
- ii. Discussing the problems concerning curriculum, syllabus and the conduct of classes.
- iii. Discussing with the course teachers on the nature and scope of assessment for the course and the same shall be announced to the students at the beginning of respective semesters.
- iv. Communicating its recommendation to the Head of the institution on academic matters.
- v. The Programme Committee shall meet at least twice in a semester preferably at the end of each sessional exam and before the end of semester exam.

11. Examination/ Assessment:-

A. Examinations of all subjects of all semesters of the Post Graduate Programme in Pharmaceutical Sciences shall be conducted by the R.T.M. Nagpur University as per the scheme of examinations and the standard of examination given in **Tables 1 to 13 of the Appendix II** of this Direction.

B. Guidelines for awarding credit points for Co-curricular activities.

The credit points assigned for extracurricular and or co-curricular activities shall be given by the Principal of the colleges/ Head of the Department and the same shall be submitted to the University. The criteria to acquire this credit point shall be as specified in **Table no.14 and 15 in Appendix-II.**

- 1) The scheme for awarding internal assessment are given in **Table 1 to 13 in Appendix-II.**
- 2) Scheme for awarding Internal Assessment: Continuous mode and guideline for the allotment of marks for the attendance are shown in **Table no. 12 and 13 of Appendix-II.**

3) Sessional Exams:

Two sessional exams shall be conducted for each theory / practical course as per the **schedule** fixed by the Department/college(s). The scheme of question paper for theory and

practical sessional examinations is given in the **Tables in Appendix-II**. The average marks of two sessional exams shall be computed for internal Assessment.

Academic calendar showing dates of commencement and end of teaching, internal assessment tests & term end examination shall be duly notified before commencement of each semester every year by the University / Department / Affiliated Colleges. An unsuccessful examinee may appear as an ex-student at a subsequent examination in a subject in which he/she has failed on the payment of fresh fees. However, his/her marks of the Internal Assessment shall be carried over and he/she shall be entitled for grade obtained by him/her on passing. A student shall have the opportunity to improve his/her performance only once in the sessional exam component of the internal assessment. The re-conduct of the sessional exam shall be completed before the commencement of next end semester theory examinations.

12. Promotion and award of grades

A student shall be declared PASS and eligible for getting grade in a course of M.Pharm programme if he/she secures at least 50% marks in that particular course including internal assessment.

13. Carry forward of marks

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified in para 11, then he/she shall reappear for the end semester examination of that course. However his/her marks of the Internal Assessment shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

14. Improvement of internal assessment

A student shall have the opportunity to improve his/her performance only once in the sessional exam component of the internal assessment. The re-conduct of the sessional exam shall be completed before the commencement of next end semester theory examinations.

15. Allowed to keep terms (ATKT):

The onward journey of a failure student shall be as per the following rules:-

- i. A student shall be eligible to carry forward all the courses of I and II semesters till the III semester examinations. However, he/she shall not be eligible to attend the courses of IV semester until all the courses of I, II and III semesters are successfully completed.
- ii. A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to IV semesters within the stipulated time period as per the norms.

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

16. The Semester grade point average (SGPA)

The performance of a student in a semester is indicated by a number called 'Semester Grade Point Average' (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses by the student during the semester. SGPA shall be calculated based on Grade Points corresponding to Grade as given in Table 1 and the Credits allotted to respective Theory/ Practical shown in the scheme for respective semester. SGPA shall be computed for every semester.

For example, if a student takes five courses (Theory/Practical) in a semester with credits C1, C2, C3 and C4 and the student's grade points in these courses are G1, G2, G3 and G4, respectively, and then students' SGPA is equal to:

$$\text{SGPA} = \frac{C_1G_1 + C_2G_2 + \dots + C_nG_n}{C_1 + C_2 + \dots + C_n}$$

Where, C1 = Credit of individual Theory / Practical

G1 = Corresponding Grade Point obtained in the Respective Theory / Practical

17. Cumulative Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the IV semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all IV semesters and their courses.

$$\text{CGPA} = \frac{\text{C1S1} + \text{C2S2} + \text{C3S3} + \text{C4S4}}{\text{C1} + \text{C2} + \text{C3} + \text{C4}}$$

Where, C1, C2, C3 & C4 is the total number of credits for semester I, II, III & IV and S1, S2, S3 & S4 is the SGPA of semester I, II, III & IV.

CGPA	Final Grade
10	O
9	A
8	B
7	C
6	D
0	F
0	AB

Final Mark List will show the grade and grade points and the marks of all the semesters.



Grades-Marks would be converted to grades as shown in Table below.

Table : Conversion of marks to grades in credit system

Percentage of Marks Obtained	Letter Grade	Grade Points	Performance
90.00-100	O	10	Outstanding
80.00-89.99	A	9	Excellent
70.00-79.99	B	8	Good
60.00-69.99	C	7	Fair
50.00-59.99	D	6	Average
Less than 50.00	F	0	Fail
Absent	AB	0	Fail

Notes:-

- a.** A learner who remains absent for any end semester examination shall be assigned a letter grade of AB and a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.
- b.** The proportion of internal and external marks for each theory / practical subjects shall be of 25:75 marks (Internal examination weightage 25 %, external examination weight age 75 %).

18. Declaration of class

The class shall be awarded on the basis of CGPA as follows:

First Class with Distinction = CGPA of. 7.50 and above

First Class = CGPA of 6.00 to 7.49

Second Class = CGPA of 5.00 to 5.99

Statement of marks for successful examinee shall have marks obtained at all the semesters i.e. semester I to IV on their semester IV statement of marks.

19. Project work

- i. All the students shall undertake a project under the supervision of a teacher in Semester III to IV and submit a report. 4 copies of the project report shall be submitted (typed & bound copy not less than 75 pages).
- ii. The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). The projects shall be evaluated as per the criteria given below.

iii. Evaluation of Dissertation Book:

Objective(s) of the work done	50 Marks
Methodology adopted	150 Marks
Results and Discussions	250 Marks
Conclusions and Outcomes	50 Marks
Total	<hr/> 500 Marks

iv. Evaluation of Presentation:

Presentation of work	100 Marks
Communication skills	50 Marks
Question and answer skills	100 Marks
Total	<hr/> 250 Marks

20. Award of Ranks

Ranks and Medals shall be awarded on the basis of final CGPA. However, candidates who fail in one or more courses during the M. Pharm program shall not be eligible for award of ranks. Moreover, the candidates should have completed the M. Pharm program in minimum prescribed number of years, (two years) for the award of Ranks.

21. Award of degree

Candidates who fulfill the requirements mentioned above shall be eligible for award of degree during the ensuing convocation.

22. Duration for completion of the program of study

The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh Registration.

23. Revaluation / Retotaling of answer papers

There is no provision for revaluation of the answer papers in any examination. However, the candidates can apply for Retotaling by paying prescribed fee.

24. Re-admission after break of study

Candidate who seeks re-admission to the program after break of study has to get the approval from the university by paying a condonation fee.

25. Rules for Absorption

Student successful in the first year (I and II semesters) of the M. Pharm old course examinations may be admitted to the next higher class of new course M. Pharm i.e. IIIrd semester. Such students will have to clear the backlog of earlier semester of the old course within five attempts. On failure to clear the backlog within the stipulated attempt he/she shall be declared to be unfit for the course and he/she will not be allowed to appear further in any examination of the course.

26. Should any question regarding interpretation of any provision of this Direction arise the same shall be referred to the decision of the Dean, faculty of Science and Technology whose decision shall be final and binding on all.



Nagpur :

Date : 01-07-2022

(DR. SUBHASH R. CHAUDHARY)

VICE-CHANCELLOR

Appendix- I

Table – 1: List of M.Pharm. Specializations and their Code

S. No.	Specialization	Code
1.	Pharmaceutics	MPH
2.	Industrial Pharmacy	MIP
3.	Pharmaceutical Chemistry	MPC
4.	Pharmaceutical Analysis	MPA
5.	Pharmaceutical Quality Assurance	MQA
6.	Pharmaceutical Regulatory Affairs	MRA
7.	Pharmaceutical Biotechnology	MPB
8.	Pharmacy Practice	MPP
9.	Pharmacology	MPL
10.	Pharmacognosy	MPG

The course of study for M.Pharm specializations shall include Semester wise Theory & Practical as given in Table – 2 to 11. The number of hours to be devoted to each theory and practical course in any semester shall not be less than that shown in Table – 2 to 11.

Table – 2: Course of study for M. Pharm. (Pharmaceutics)

Course Code	Course	Credit Hours	Credit Points	Hrs./week	Marks
Semester I					
MPH101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPH102T	Drug Delivery System	4	4	4	100
MPH103T	Modern Pharmaceutics	4	4	4	100
MPH104T	Regulatory Affair	4	4	4	100
MPH105P	Pharmaceutics Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPH201T	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	4	4	4	100
MPH202T	Advanced Biopharmaceutics & Pharmacokinetics	4	4	4	100

For:  

MPH203T	Computer Aided Drug Delivery System	4	4	4	100
MPH204T	Cosmetic and Cosmeceuticals	4	4	4	100
MPH205P	Pharmaceutics Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650

Table – 3: Course of study for M. Pharm. (Industrial Pharmacy)

Course Code	Course	Credit Hours	Credit Points	Hrs./week	Marks
Semester I					
MIP101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MIP102T	Pharmaceutical Formulation Development	4	4	4	100
MIP103T	Novel drug delivery systems	4	4	4	100
MIP104T	Intellectual Property Rights	4	4	4	100
MIP105P	Industrial Pharmacy Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650
Semester II					
MIP201T	Advanced Biopharmaceutics and Pharmacokinetics	4	4	4	100
MIP202T	Scale up and Technology Transfer	4	4	4	100
MIP203T	Pharmaceutical Production Technology	4	4	4	100
MIP204T	Entrepreneurship Management	4	4	4	100
MIP205P	Industrial Pharmacy Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650

Table – 4: Course of study for M. Pharm. (Pharmaceutical Chemistry)

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
Semester I					
MPC101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPC1012T	Advanced Organic Chemistry -I	4	4	4	100
MPC103T	Advanced Medicinal chemistry	4	4	4	100
MPC104T	Chemistry of Natural Products	4	4	4	100
MPC105P	Pharmaceutical Chemistry Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPC201T	Advanced Spectral Analysis	4	4	4	100
MPC202T	Advanced Organic Chemistry -II	4	4	4	100
MPC203T	Computer Aided Drug Design	4	4	4	100
MPC204T	Pharmaceutical Process Chemistry	4	4	4	100
MPC205P	Pharmaceutical Chemistry Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650

Table – 5: Course of study for M. Pharm. (Pharmaceutical Analysis)

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
Semester I					
MPA101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPA102T	Advanced Pharmaceutical Analysis	4	4	4	100
MPA103T	Pharmaceutical Validation	4	4	4	100
MPA104T	Food Analysis	4	4	4	100
MPA105P	Pharmaceutical Analysis Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPA201T	Advanced Instrumental Analysis	4	4	4	100
MPA202T	Modern Bio-Analytical Techniques	4	4	4	100
MPA203T	Quality Control and Quality Assurance	4	4	4	100
MPA204T	Herbal and Cosmetic Analysis	4	4	4	100
MPA205P	Pharmaceutical Analysis Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650

gss

hij

Table – 6: Course of study for M. Pharm. (Pharmaceutical Quality Assurance)

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
Semester I					
MQA101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MQA102T	Quality Management System	4	4	4	100
MQA103T	Quality Control and Quality Assurance	4	4	4	100
MQA104T	Product Development and Technology Transfer	4	4	4	100
MQA105P	Pharmaceutical Quality Assurance Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MQA201T	Hazards and Safety Management	4	4	4	100
MQA202T	Pharmaceutical Validation	4	4	4	100
MQA203T	Audits and Regulatory Compliance	4	4	4	100
MQA204T	Pharmaceutical Manufacturing Technology	4	4	4	100
MQA205P	Pharmaceutical Quality Assurance Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650

gor

Raj

Table – 7: Course of study for M. Pharm. (Regulatory Affairs)

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
Semester I					
MRA 101T	Good Regulatory Practices	4	4	4	100
MRA 102T	Documentation and Regulatory Writing	4	4	4	100
MRA 103T	Clinical Research Regulations	4	4	4	100
MRA 104T	Regulations and Legislation for Drugs & Cosmetics, Medical Devices, Biologicals & Herbals, and Food & Nutraceuticals In India and Intellectual Property Rights	4	4	4	100
MRA 105P	Regulatory Affairs Practical I	12	6	12	150
	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650
Semester II					
MRA 201T	Regulatory Aspects of Drugs & Cosmetics	4	4	4	100
MRA 202T	Regulatory Aspects of Herbal & Biologicals	4	4	4	100
MRA 203T	Regulatory Aspects of Medical Devices	4	4	4	100
MRA 204T	Regulatory Aspects of Food & Nutraceuticals	4	4	4	100
MRA 205P	Regulatory Affairs Practical II	12	6	12	150
	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650

gor. Raj

Table – 8: Course of study for M. Pharm. (Pharmaceutical Biotechnology)

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
Semester I					
MPB 101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPB 102T	Microbial And Cellular Biology	4	4	4	100
MPB 103T	Bioprocess Engineering and Technology	4	4	4	100
MPB 104T	Advanced Pharmaceutical Biotechnology	4	4	4	100
MPB 105P	Pharmaceutical Biotechnology Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPB 201T	Proteins and protein Formulation	4	4	4	100
MPB 202T	Immunotechnology	4	4	4	100
MPB 203T	Bioinformatics and Computer Technology	4	4	4	100
MPB 204T	Biological Evaluation of Drug Therapy	4	4	4	100
MPB 205P	Pharmaceutical Biotechnology Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650

Table – 9: Course of study for M. Pharm. (Pharmacy Practice)

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
Semester I					
MPP 101T	Clinical Pharmacy Practice	4	4	4	100
MPP 102T	Pharmacotherapeutics-I	4	4	4	100
MPP 103T	Hospital & Community Pharmacy	4	4	4	100
MPP 104T	Clinical Research	4	4	4	100
MPP 105P	Pharmacy Practice Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPP 201T	Principles of Quality Use of Medicines	4	4	4	100
MPP 102T	Pharmacotherapeutics II	4	4	4	100
MPP 203T	Clinical Pharmacokinetics and Therapeutic Drug Monitoring	4	4	4	100
MPP 204T	Pharmacoepidemiology & Pharmacoeconomics	4	4	4	100
MPP 205P	Pharmacy Practice Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650

gor. Laf

Table – 10: Course of study for (Pharmacology)

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
Semester I					
MPL 101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPL 102T	Advanced Pharmacology-I	4	4	4	100
MPL 103T	Pharmacological and Toxicological Screening Methods-I	4	4	4	100
MPL 104T	Cellular and Molecular Pharmacology	4	4	4	100
MPL 105P	Pharmacology Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPL 201T	Advanced Pharmacology II	4	4	4	100
MPL 102T	Pharmacological and Toxicological Screening Methods-II	4	4	4	100
MPL 203T	Principles of Drug Discovery	4	4	4	100
MPL 204T	Experimental Pharmacology practical- II	4	4	4	100
MPL 205P	Pharmacology Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650

Table – 11: Course of study for M. Pharm. (Pharmacognosy)

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
Semester I					
MPG101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPG102T	Advanced Pharmacognosy-I	4	4	4	100
MPG103T	Phytochemistry	4	4	4	100
MPG104T	Industrial Pharmacognostical Technology	4	4	4	100
MPG105P	Pharmacognosy Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPG201T	Medicinal Plant biotechnology	4	4	4	100
MPG102T	Advanced Pharmacognosy-II	4	4	4	100
MPG203T	Indian system of medicine	4	4	4	100
MPG204T	Herbal cosmetics	4	4	4	100
MPG205P	Pharmacognosy Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650

Yor

23
Laf

Table – 12: Course of study for M. Pharm. III Semester
(Common for All Specializations)

Course Code	Course	Credit Hours	Credit Points
MRM 301T	Research Methodology and Biostatistics*	4	4
-	Journal club	1	1
-	Discussion / Presentation (Proposal Presentation)	2	2
-	Research Work	28	14
Total		35	21

* Non University Exam

Table – 13: Course of study for M. Pharm. IV Semester
(Common for All Specializations)

Course Code	Course	Credit Hours	Credit Points
-	Journal Club	1	1
-	Research Work	31	16
-	Discussion/Final Presentation	3	3
Total		35	20

Table – 14: Semester wise credits distribution

Semester	Credit Points
I	26
II	26
III	21
IV	20
Co-curricular Activities (Attending Conference, Scientific Presentations and Other Scholarly Activities)	Minimum=02 Maximum=07*
Total Credit Points	Minimum=95 Maximum=100*

*Credit Points for Co-curricular Activities

Yor

Laj

Table – 15: Guidelines for Awarding Credit Points for Co-curricular Activities

Name of the Activity	Maximum Credit Points Eligible / Activity
Participation in National Level Seminar/Conference/Workshop/Symposium/ Training Programs (related to the profession of Pharmacy)	01
Participation in international Level Seminar/Conference/Workshop/Symposium/ Training Programs (related to the profession of Pharmacy)	02
Academic Award/Research Award from university/State Level/National Agencies	01
Academic Award/Research Award from International Agencies	02
Research / Review Publication in National Journals (Indexed in Scopus / Web of Science/PCI/UGC approved)	01
Research / Review Publication in International Journals (Indexed in Scopus / Web of Science/PCI/UGC approved)	02

Note: International Conference: Held Outside India/organized by internationally recognized societies

International Journal: The Editorial Board outside India

International Agencies: Agencies outside India

*The credit points assigned for extracurricular and or co-curricular activities shall be given by the Principals of the colleges and the same shall be submitted to the University.

grr

Raj

Appendix II

**Tables – 1: Schemes for internal assessments and end semester examinations
(Pharmaceutics- MPH)**

Course Code	Course	Internal Assessment			End Semester Exams		Total Marks	
		Continuous Mode	Sessional Exams		Total	Marks		Duration
			Marks	Duration				
SEMESTER I								
MPH 101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPH 102T	Drug Delivery System	10	15	1 Hr	25	75	3 Hrs	100
MPH 103T	Modern Pharmaceutics	10	15	1 Hr	25	75	3 Hrs	100
MPH 104T	Regulatory Affair	10	15	1 Hr	25	75	3 Hrs	100
MPH 105P	Pharmaceutics Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar/Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPH 201T	Molecular Pharmaceutics (NanoTech and Targeted DDS)	10	15	1 Hr	25	75	3 Hrs	100
MPH 202T	Advanced Biopharmaceutics & Pharmacokinetics	10	15	1 Hr	25	75	3 Hrs	100
MPH 203T	Computer Aided Drug Delivery System	10	15	1 Hr	25	75	3 Hrs	100
MPH 204T	Cosmetic and Cosmeceuticals	10	15	1 Hr	25	75	3 Hrs	100
MPH 205P	Pharmaceutics Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar/Assignment	-	-	-	-	-	-	100
Total								650

gor

Saj

Tables – 2: Schemes for internal assessments and end semester examinations (Industrial Pharmacy- MIP)

Course Code	Course	Internal Assessment			End Semester Exams		Total Marks	
		Continuous Mode	Sessional Exams		Total	Marks		Duration
			Marks	Duration				
SEMESTER I								
MIP101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MIP102T	Pharmaceutical Formulation Development	10	15	1 Hr	25	75	3 Hrs	100
MIP103T	Novel drug delivery systems	10	15	1 Hr	25	75	3 Hrs	100
MIP104T	Intellectual Property Rights	10	15	1 Hr	25	75	3 Hrs	100
MIP105P	Industrial Pharmacy Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MIP201T	Advanced Biopharmaceutics and Pharmacokinetics	10	15	1 Hr	25	75	3 Hrs	100
MIP202T	Scale up and Technology Transfer	10	15	1 Hr	25	75	3 Hrs	100
MIP203T	Pharmaceutical Production Technology	10	15	1 Hr	25	75	3 Hrs	100
MIP204T	Entrepreneurship Management	10	15	1 Hr	25	75	3 Hrs	100
MIP205P	Industrial Pharmacy Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650

goc

Sej

Tables – 3: Schemes for internal assessments and end semester examinations
(Pharmaceutical Chemistry-MPC)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPC101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPC102T	Advanced Organic Chemistry -I	10	15	1 Hr	25	75	3 Hrs	100
MPC103T	Advanced Medicinal chemistry	10	15	1 Hr	25	75	3 Hrs	100
MPC104T	Chemistry of Natural Products	10	15	1 Hr	25	75	3 Hrs	100
MPC105P	Pharmaceutical Chemistry Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPC201T	Advanced Spectral Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPC202T	Advanced Organic Chemistry -II	10	15	1 Hr	25	75	3 Hrs	100
MPC203T	Computer Aided Drug Design	10	15	1 Hr	25	75	3 Hrs	100
MPC204T	Pharmaceutical Process Chemistry	10	15	1 Hr	25	75	3 Hrs	100
MPC205P	Pharmaceutical Chemistry Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650

gor.

day

**Tables – 4: Schemes for internal assessments and end semester examinations
(Pharmaceutical Analysis-MPA)**

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPA101T	Modern Pharmaceutical Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPA102T	Advanced Pharmaceutical Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPA103T	Pharmaceutical Validation	10	15	1 Hr	25	75	3 Hrs	100
MPA104T	Food Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPA105P	Pharmaceutical Analysis-I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPA201T	Advanced Instrumental Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPA202T	Modern Bio-Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPA203T	Quality Control and Quality Assurance	10	15	1 Hr	25	75	3 Hrs	100
MPA204T	Herbal and Cosmetic analysis	10	15	1 Hr	25	75	3 Hrs	100
MPA205P	Pharmaceutical Analysis- II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650

Gor.

[Signature]

**Tables – 5: Schemes for internal assessments and end semester examinations
(Pharmaceutical Quality Assurance-MQA)**

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MQA1 01T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MQA1 02T	Quality Management System	10	15	1 Hr	25	75	3 Hrs	100
MQA1 03T	Quality Control and Quality Assurance	10	15	1 Hr	25	75	3 Hrs	100
MQA1 04T	Product Development and Technology Transfer	10	15	1 Hr	25	75	3 Hrs	100
MQA1 05P	Pharmaceutical Quality Assurance Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MQA2 01T	Hazards and Safety Management	10	15	1 Hr	25	75	3 Hrs	100
MQA2 02T	Pharmaceutical Validation	10	15	1 Hr	25	75	3 Hrs	100
MQA2 03T	Audits and Regulatory Compliance	10	15	1 Hr	25	75	3 Hrs	100
MQA2 04T	Pharmaceutical Manufacturing Technology	10	15	1 Hr	25	75	3 Hrs	100
MQA2 05P	Pharmaceutical Quality Assurance Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650

90r

30

**Tables – 6: Schemes for internal assessments and end semester examinations
(Pharmaceutical Regulatory Affairs-MRA)**

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MRA10 1T	Good Pharmaceutical Practices	10	15	1 Hr	25	75	3 Hrs	100
MRA10 2T	Documentation and Regulatory Writing	10	15	1 Hr	25	75	3 Hrs	100
MRA10 3T	Clinical Research Regulations	10	15	1 Hr	25	75	3 Hrs	100
MRA10 4T	Regulations and Legislation for Drugs & Cosmetics, Medical Devices, Biologicals &Herbals, and Food & Nutraceuticals In India and Intellectual Property Rights	10	15	1 Hr	25	75	3 Hrs	100
MRA10 5T	Pharmaceutical Regulatory Affairs Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar/Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MRA20 1T	Regulatory Aspects of Drugs & Cosmetics	10	15	1 Hr	25	75	3 Hrs	100
MRA20 2T	Regulatory Aspects of Herbal & Biologicals	10	15	1 Hr	25	75	3 Hrs	100
MRA20 3T	Regulatory Aspects of Medical Devices	10	15	1 Hr	25	75	3 Hrs	100
MRA20 4T	Regulatory Aspects of Food &Nutraceuticals	10	15	1 Hr	25	75	3 Hrs	100
MRA20 5P	Pharmaceutical Regulatory Affairs Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar/Assignment	-	-	-	-	-	-	100
Total								650

gr

31
day

**Tables – 7: Schemes for internal assessments and end semester examinations
(Pharmaceutical Biotechnology-MPB)**

Course Code	Course	Internal Assessment				End Semester Exams		Total
		Continuous Mode	Sessional Exams		Total	Marks	Duration	Marks
			Marks	Duration				
SEMESTER I								
MPB10 1T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPB10 2T	Microbial And Cellular Biology	10	15	1 Hr	25	75	3 Hrs	100
MPB10 3T	Bioprocess Engineering and Technology	10	15	1 Hr	25	75	3 Hrs	100
MPB10 4T	Advanced Pharmaceutical Biotechnology	10	15	1 Hr	25	75	3 Hrs	100
MPB10 5P	Pharmaceutical Biotechnology Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPB20 1T	Proteins and protein Formulation	10	15	1 Hr	25	75	3 Hrs	100
MPB20 2T	Immunotechnology	10	15	1 Hr	25	75	3 Hrs	100
MPB20 3T	Bioinformatics and Computer Technology	10	15	1 Hr	25	75	3 Hrs	100
MPB20 4T	Biological Evaluation of Drug Therapy	10	15	1 Hr	25	75	3 Hrs	100
MPB20 5P	Pharmaceutical Biotechnology Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650

gss

32
Lat

**Tables – 8: Schemes for internal assessments and end semester examinations
(Pharmacy Practice-MPP)**

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPP10 1T	Clinical Pharmacy Practice	10	15	1 Hr	25	75	3 Hrs	100
MPP10 2T	Pharmacotherapeutic-I	10	15	1 Hr	25	75	3 Hrs	100
MPP10 3T	Hospital & Community Pharmacy	10	15	1 Hr	25	75	3 Hrs	100
MPP10 4T	Clinical Research	10	15	1 Hr	25	75	3 Hrs	100
MPP10 5P	Pharmacy Practice Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPP20 1T	Principles of Quality Use of Medicines	10	15	1 Hr	25	75	3 Hrs	100
MPP10 2T	Pharmacotherapeutic II	10	15	1 Hr	25	75	3 Hrs	100
MPP20 3T	Clinical Pharmacokinetics and Therapeutic Drug Monitoring	10	15	1 Hr	25	75	3 Hrs	100
MPP20 4T	Pharmacoepidemiology & Pharmacoeconomics	10	15	1 Hr	25	75	3 Hrs	100
MPP20 5P	Pharmacy Practice Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650

gor

Ref

**Tables – 9: Schemes for internal assessments and end semester examinations
(Pharmacology-MPL)**

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPL10 1T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPL10 2T	Advanced Pharmacology-I	10	15	1 Hr	25	75	3 Hrs	100
MPL10 3T	Pharmacological and Toxicological Screening Methods-I	10	15	1 Hr	25	75	3 Hrs	100
MPL10 4T	Cellular and Molecular Pharmacology	10	15	1 Hr	25	75	3 Hrs	100
MPL10 5P	Experimental Pharmacology - I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPL20 1T	Advanced Pharmacology II	10	15	1 Hr	25	75	3 Hrs	100
MPL10 2T	Pharmacological and Toxicological Screening Methods-II	10	15	1 Hr	25	75	3 Hrs	100
MPL20 3T	Principles of Drug Discovery	10	15	1 Hr	25	75	3 Hrs	100
MPL20 4T	Clinical research and pharmacovigilance	10	15	1 Hr	25	75	3 Hrs	100
MPL20 5P	Experimental Pharmacology - II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650

gor

34

lay

**Tables – 10: Schemes for internal assessments and end semester examinations
(Pharmacognosy-MPG)**

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPG10 1T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPG10 2T	Advanced Pharmacognosy-I	10	15	1 Hr	25	75	3 Hrs	100
MPG10 3T	Photochemistry	10	15	1 Hr	25	75	3 Hrs	100
MPG10 4T	Industrial Pharmacognostical Technology	10	15	1 Hr	25	75	3 Hrs	100
MPG10 5P	Pharmacognosy Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPG20 1T	Medicinal Plant biotechnology	10	15	1 Hr	25	75	3 Hrs	100
MPG10 2T	Advanced Pharmacognosy-II	10	15	1 Hr	25	75	3 Hrs	100
MPG20 3T	Indian system of medicine	10	15	1 Hr	25	75	3 Hrs	100
MPG20 4T	Herbal cosmetics	10	15	1 Hr	25	75	3 Hrs	100
MPG20 5P	Pharmacognosy Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650

90%

Signature

**Tables – 11: Schemes for internal assessments and end semester examinations
(Semester III & IV)**

Course Code	Course	Internal Assessment			End Semester Exams			Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Mark s	Duration				
SEMESTER III								
MRM301T	Research Methodology and Biostatistics*	10	15	1 Hr	25	75	3 Hrs	100
-	Journal club	-	-	-	25	-	-	25
-	Discussion / Presentation (Proposal Presentation)	-	-	-	50	-	-	50
-	Research work*	-	-	-	-	350	1 Hr	350
Total								525
SEMESTER IV								
-	Journal club	-	-	-	25	-	-	25
-	Discussion / Presentation (Proposal Presentation)	-	-	-	75	-	-	75
-	Research work and Colloquium	-	-	-	-	400	1 Hr	400
Total								500

*Non University Examination

Internal assessment: Continuous mode

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

gdr

36
Ray

Table – 12: Scheme for awarding internal assessment: Continuous mode

Theory	
Criteria	Maximum Marks
Attendance (Refer Table – 13)	8
Student – Teacher interaction	2
Total	10
Practical	
Attendance (Refer Table – 13)	10
Based on Practical Records, Regular viva voce, etc.	10
Total	20

Table – 13: Guidelines for the allotment of marks for attendance

Percentage of Attendance	Theory	Practical
95 – 100	8	10
90 – 94	6	7.5
85 – 89	4	5
80 – 84	2	2.5
Less than 80	0	0

gor

laf