

आईएफटीएम विश्वविद्यालय, मुरादाबाद, उत्तर प्रदेश IFTM University, Moradabad, Uttar Pradesh

Academic Ordinance for Master of Pharmacy (M.Pharm) Programme

(w.e.f Session: 2021-22)

(Amended with CBCS & Approved by the Academic Council in the 18^{th} Meeting held on 25^{th} September 2021)

IFTM UNIVERSITY

(Established under U.P. Govt. Act No.24 of 2010 and approved under section 22 of UGC Act 1956)

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आईएफटीएम विश्वविद्यालय, मुरादाबाद, उत्तर प्रदेश IFTM University, Moradabad, Uttar Pradesh

School of Pharmaceutical Sciences & Pharmacy Academy (Faculty of Pharmacy)

IFTM UNIVERSITY, MORADABAD. www.iftmuniversity.ac.in

Study & Evaluation Scheme of Master of Pharmacy

Programme	:	Master of Pharmacy (Pharmaceutics/Pharmaceutical Chemistry/ Pharmacognosy/Pharmacology)
Course Level	:	Post Graduate Degree
Duration	:	Four Semester (two academic years) Full Time
Medium of instruction	:	English
Minimum Required Attendance	:	80%
Total Credit Points	:	Minimum=95, Maximum=100
Programme Outcomes (POs):		

On completion of the M.Pharm. Program, a student will be able to:

PO1: Explain the knowledge of the basics and advanced pharmaceutical sciences and the ability to acquire, manage and use current information with problem solving approach.

PO2: Perform the synthesis, development of analytical techniques for identification, characterization and quantification of drugs, formulation, pharmacological, pharmacognostical, biotechnological and regulatory aspects of drugs and biomolecules.

PO3: Undergo the applied and interdisciplinary research for betterment of society at national and international level.

PO4: Comply and work on rules and regulations involved in the drug discovery & development, manufacture and other allied area of the field.

PO5: Develop problem-based learning approach and analytical thinking in his/her academic and professional life.

PO6: Apply critical thinking skills, including investigation, application, analysis, creativity, evaluation of information, data and documents related to research at local, regional and global platform.

PO7: Tackle professional challenges through lifelong learning attitude.

PO8: Demonstrate the ability to plan and implement professional activities.

PO9: Act efficiently as a leader in the diverse areas of the profession including writing research papers and articles of contemporary trends.

PO10: Apply the knowledge and skills to gain recognition in professional circle as well as society.

PO11: Make initiatives to create awareness in society about the effective and safe use of medicines.

PO12: Exercise ethical practices and moral values in personal and professional endeavors.

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THE MASTER OF PHARMACY (M. PHARM.) COURSE REGULATION 2014

SCHEME AND SYLLABUS



PHARMACY COUNCIL OF INDIA Combined Council's Building, Kotla Road, Aiwan-E-Ghalib Marg, New Delhi-110 002. Website : www.pci.nic.

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EXTRAORDINARY

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PART III -Section 4

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

नई दिल्ली, ब्हरयतिवार, दिसम्बर 11, 2014/अम्रहायण 20, 1936 NEW DELHI, THURSDAY, DECEMBER 11, 2014/AGRAHAYANA 20, 1936

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PHARMACY COUNCIL OF INDIA

NUTTERNATION

New Elein, the 10th December, 2017

The Master of Pharmary (M.Pharm) Course Regulations, 2014

No. 14-1367 2014-PCL—In exercise of the powers conferred by Sections 10 and 18 of the Pharmacy Act, 1948 (5 of 1948), the Pharmacy Cannot of India, with the approval of the Central Government forceby nodes the following regulations: namely-

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CHAPTER -I:REGULATIONS

1. Short Title and Commencement

These regulations shall be called as "The Revised Regulations for the Master of Pharmacy (M. Pharm.)Degree Program – Credit Based Semester System (CBSS) of the Pharmacy Council of India, New Delhi". They shall come into effect from the Academic Year 2016–17. The regulations framed are subject to modifications from time to time by the authorities of the university.

2. Minimum qualification for admission

A Pass in the following examinations

a) B. Pharm Degree examination of an Indian university established by law in India from an institution approved by Pharmacy Council of India and has scored not less than 55 % of the maximum marks (aggregate of 4 years of B.Pharm.)

b) 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.

Note: It is mandatory to submit a migration certificate obtained from the respective university where the candidate had passed his/her qualifying degree (B.Pharm.)

3. Duration of the program

The program of study for M.Pharm. shall extend over a period of four semesters (two academic years). The curricula and syllabi for the program shall be prescribed from time to time by Phamacy Council of India, New Delhi.

4. Medium of instruction and examinations

Medium of instruction and examination shall be in English.

5. Working days in each semester

Each semester shall consist of not less than 100 working days. The odd semesters shall be conducted from the month of June/July to November/December and the even semesters shall be conducted from the month of December/January to May/June in every calendar year.

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6. Attendance and progress

A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations.

7. Program/Course credit structure

As per the philosophy of Credit Based Semester System, certain quantum of academic work viz. theory classes, practical classes, seminars, assignments, etc. are measured in terms of credits. On satisfactory completion of the courses, a candidate earns credits. The amount of credit associated with a course is dependent upon the number of hours of instruction per week in that course. Similarly the credit associated with any of the other academic, co/extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week/per activity.

7.1. Credit assignment

7.1.1. Theory and Laboratory courses

Courses are broadly classified as Theory and Practical. Theory courses consist of lecture (L) and Practical (P) courses consist of hours spent in the laboratory. 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 1.

7.2. Minimum credit requirements

The minimum credit points required for the award of M. Pharm. degree is 95. However based on the credit points earned by the students under the head of co-curricular activities, a student shall earn a maximum of 100 credit points. These credits are divided into Theory courses, Practical, Seminars, Assignments, Research work, Discussions with the supervisor, Journal club and Co-Curricular activities over the duration of four semesters. The credits

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are distributed semester-wise as shown in Table 14. Courses generally progress in sequence, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester-wise schedule of courses given in the syllabus.

8. Academic work

A regular record of attendance both in Theory, Practical, Seminar, Assignment, Journal club, Discussion with the supervisor, Research work presentation and Dissertation shall be maintained by the department / teaching staff of respective courses.

9. Course of study

The specializations in M.Pharm program is given in Table 1.

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

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

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.

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Course Code	Course	Credit Hours	Credit Points	Hrs./w k	Marks
	Seme	ster I	國法律法院		
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
	Seme	ster II			
MPH201T	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	4	4	4	100
MPH202T	Advanced Biopharmaceutics & Pharmacokinetics	4	4	4	100
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 - 2: Course of study for M. Pharm. (Pharmaceutics)

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Course Code	ole – 3: Course of study for N Course	Credit Hours	Credit Points	Hrs./w k	Marks
	Semes	ter 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	алантных и статий и констратор и тологолого и славной и статий и статий и славной и статий и славной и статий и славной и статий и славной и с	6 	12	150
	Seminar/Assignment	7	4	7	100
Hand Section (C. C. Galer, Bay Vor. Social Aller, Cale & Cale & Color, Bay Ca	Total	35	26	35	650
	Seme	ster 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 - 3[°] Course of study for M. Pharm. (Industrial Pharmacy)

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Course Code	Course	Credit Hours	Credit Points	Hrs./w k	Marks
	Seme	ster 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		4	7	100
	Total	35	26	35	650
	Semes	ster 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 - 4: Course of study for M. Pharm. (Pharmaceutical Chemistry)

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Course Code	- 5: Course of study for M.P Course	Credit Hours	Credit Points	Hrs./wk	Marks
	Semest	er 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
	Semest	er 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

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

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Course Code	Course	Credit Hours	Credit Points	Hrs./w k	Marks
	Semest	er 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
	Semest	er II	Annen an	1. 	hannannan cuiteac ta
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
nya maganinya papata kaodina ara-manaka ara-manaka	Seminar/Assignment		4	7	100
n samatan secahi carini meningi dakeringi kara seri antar samatan samatan samatan s	Total	35	26	35	650

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

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Course Code	Course	Credit Hours	Credit Points	Hrs./ wk	Marks
	Seme	ster I	10082.544		
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
ennen en e	Seminar/Assignment	7	4	7	. 100
a gan dalam kan katan da barang sagang baran kan da da	Total	35	26	35 35	650
	- ' Semes	ster II	берелитиканны не аксалентации начаятали полосний н	haan ah oo maan ay saa oo saa in saadaa ah	Annese arriente sere sere
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
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Table - 7: Course of study for M. Pharm. (Regulatory Affairs)

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Course Code	Course		Credit Hours	Credit Points	Hrs./w k	Marks	
		Semest	er I				
MPB 101T	Modern Analytical Techn	Pharmaceutical iques	4	4	4	100	
MPB 102T	Microbial And Ce	llular Biology	.4	4	. 4	. 100	
MPB 103T	Bioprocess En Technology	gineering and	· 4	4	4	100	
МРВ 104Т	Advanced Biotechnology	Pharmaceutical	4	4	4	100	
MPB 105P	Pharmaceutical Practical I	Biotechnology	12 12 12	аналиян на состания на	12	150	
-	Seminar/Assignm	ient	7	4	7	100	
	Total	Comparison and a second secon second second sec	35	26	26 35 65		
		Semest	er II	ай [,] 200 о разлика и и полиција на около	en fanzen er sezen en sozionen moner um reken en er	offenense set of the excent set of the	
MPB 201T	Proteins Formulation	and protein	4	4	4	100	
MPB 202T	Immunotechno	logy	4	4	4	100	
MPB 203T	Bioinformatics a Technology	and Computer	4	4	4	100	
MPB 204T	Biological Evalua Therapy	ation of Drug	4	4	4	1Ò0	
MPB 205P	Pharmaceutical Practical II	Biotechnology	12 12	6	12	150	
-	Seminar/Assignn	nent	7	4	7	100	
	То	tal	35	26	35	650	

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

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Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
	Semester	·Ι			
MPP 101T	Clinical Pharmacy Practice	4	4	4	100
MPP 102T	Pharmacotherapeutics-I	4	4	4	100
MPP 103T	Hospital & Community Pharmacy	Ą	4	4	100
MPP 104T	Clinical Research	4	4	. 4	100
MPP 105P	Pharmacy Practice Practical I	1 2	6	12	150
-	Seminar/Assignment	7	4	7	100
	Total	35	26	5 35	
	Semester	Π			
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	анала этоническите на ликине на ликине 4	4 1	100
MPP 204T	Pharmacoepidemiology & Pharmacoeconomics	4	аннон напатиринал холчолаго, с о за 4	4	100
MPP 205P	Pharmacy Practice Practical II	• 12	6	12	150
	Seminar/Assignment	7	4		100
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Table – 9: Course of study for M. Pharm. (Pharmacy Practice)

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Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
	Semes	ster I			44-44
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 6	12	150
•	Seminar/Assignment	7	4	7	100
dennengelinden och att in som den att van kan state state frå det att ande	Total	35	26	35	650
	Semes	ster II			
MPL 201T	Advanced Pharmacology II	4	4	4	100
MPL 202T	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
annen ander eine eine eine eine eine eine eine ei	Seminar/Assignment	7	4	7	100
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Table - 10: Course of study for (Pharmacology)

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Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
	Semest	er I			
MPG101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPG102T	Advanced Pharmacognosy-1	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
	Semest	er II			
MPG201T	Medicinal Plant biotechnology		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		4	7	100
ar na frail inar na profitaul do de couldertile de resultant de la seconda de la seconda de la seconda de la se	Total	35	26	35	650

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

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Course Code	Course	Credit Hours	Credit Points
MRM 301T	Research Methodology and Biostatistics*	4	4
	Journal club	. 1	1
Renet in the enderstation of the second s	Discussion / Presentation (Proposal Presentation)	2	2
Non-setue (manufacture de la construction de la	Research Work	28	14
	Total	35	21

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

* Non University Exam

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

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

Table - 14: Semester wise credits distribution

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

*Credit Points for Co-curricular Activities

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Table - 15: Guidelines for Awarding Credit Points for Name of the Activity	Co-curricular Activities Maximum Credit Points Eligible / Activity
Participation in National Level Seminar/Conference/Workshop/Symposium/ Training Programs (related to the specialization of the student)	01
Participation in international Level Seminar/Conference/Workshop/Symposium/ Training Programs (related to the specialization of the student)	02
Academic Award/Research Award from 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)	01
Research / Review Publication in International Journals (Indexed in Scopus / Web of Science)	02

Note: International Conference: Held Outside India

International Journal: The Editorial Board 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. The criteria to acquire this credit point shall be defined by the colleges 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:

A teacher at the cadre of Professor shall be the Chairperson; One Teacher from each M.Pharm specialization and four student representatives (two from each academic year), nominated by the Head of the institution.

- 3. Duties of the Programme Committee:
- i. Periodically reviewing 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.

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- 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 semester exam.

11. Examinations/Assessments

The schemes for internal assessment and end semester examinations are given in Table - 16.

11.1. End semester examinations

The End Semester Examinations for each theory and practical course through semesters I to IV shall be conducted by the respective university except for the subject with asterix symbol (*) in table I and II for which examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.

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0		•		sessment		Sem	end nester ams	Tota 1
Course	Course	Continu ous Mar Durati		Tot al	Mar ks	Durati	Mar ks	
		Mode	ks	on	ai	K5	on	
		SI	EMESTE	RI				
MPH 101T	Modern Pharmaceuti cal 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 Pharmaceuti cs	10	15	1 Hr	25	75	3 Hrs	100
MPH 104T	Regulatory Affair	10	15	1 Hr	25	75	3 Hrs	100
MPH 105P	Pharmaceuti cs Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	- /	_	-	-	100
an usang pina ta Jan ta an ta	na na managana ang ang managana na ang na		otal	nated at a first a state of a state of the state		angga mana san sa		650
MPH 201T	Molecular Pharmaceuti cs(Nano Tech and Targeted DDS)	10	EMESTE 15	1 Hr	25	75	3 Hrs	100
MPH 202T	Advanced Biopharmac eutics & Pharmacokin etics	10	15	1 Hr	25	75	3 Hrs	100
МРН 203Т	Computer Aided Drug Delivery System	10	15	1 Hr	25	75	3 Hrs	100
MPH	Cosmetic	10	15	1 Hr	25	75	3 Hrs	100

Tables -	1616	: Schemes for	internal	assessments	and end	semester
			(Pharma	COUTICS- MPH)	

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		7	otal	la contractor de la contra		an ann a suite ann ann ann ann ann ann ann ann ann an		650
-	Seminar /Assignment	- 1	-	-	-	-	-	100
MPH 205P	Pharmaceuti cs Practical I	20	30	6 Hrs	50	100	6 Hrs	150
204T	and Cosmeceutic als							

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0				macy- MI ssessmen		End Semester Exams		Total	
Course Code	Course	Conti nuou	Ex	sional ams	Tot	Mar	Dura	Marks	
				s Mode	Mar ks	Durati on	al	ks	tion
		1	SEMEST	ER I					
MIP101T	Modern Pharmaceutic al Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100	
MIP102T	Pharmaceutic al 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	
	สมัตรระบรรรมสาวาสมาราช 10-13-00 มีการระบรรรมสาวาสสาวาสสาวาสราชาต		Fotal					650	
	G Antonional Journal and Antonio Antonional Antonio Ant		SEMEST	ER II					
MIP201T	Advanced Biopharmaceu tics and Pharmacokine tics	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	Pharmaceutic al Production Technology	10	15	1 Hr	25	75	3 Hrs	100	
MIP204T	Entrepreneurs hip Management	10	15	1 Hr	25	75	3 Hrs	100	

Tables - 1717 : Schemes for internal assessments and end semester (Industrial Pharmacy- MIP)

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MIP205P	Industrial Pharmacy Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	<u>.</u>	-	-	-	100

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	(Ph	armace	utical C	hemistry-	MPC)	En	d	
		In	ternal A	ssessmen	t	Semester Exams		Total
Course Code	Course	Cont Sessional inuo Exams Tot		Tot	Mar	Du	Total Marks	
		us Mod e	Mar ks	Durati on	al	ks	rati on	
	and a second		SEMEST	ER I				
MPC101T	Modern Pharmaceutic al Analytical Techniques	10	n -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	Pharmaceutic al Chemistry Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-		-	-	100
-		Τ	`otal				STREAM SCHOOL ST. C. STREAM SC	650
			SEMEST	FER II		-	1000	
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	Pharmaceutic al Process Chemistry	10	15	1 Hr	25	75	3 Hrs	100
MPC205P	Pharmaceutic	20	30	6 Hrs	50	100	6	150

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	al Chemistry Practical II					Hrs	
-	Seminar /Assignment	-	-	-		-	100
		Total		and an	, - Speciel and a first statement of the second		650

Tables - 19: Schemes for internal assessments and end semester examinations (Pharmaceutical Analysis-MPA)

Course		Int	Sem	nd ester ams	Total				
Code	Course	Contin		sional ams	Tot	Mark	Dura	Marks	
			uous Mode	Mark s	Durati on	al	S	tion	
	สารสุขภาพของสมุณของสุขภาพสุขาง 1 มาก การสุขางมายสมุณของสุขางสมุขางสืบ		SEMEST	ER I		dan series and a series of ser			
MPA101T	Modern Pharmaceuti cal Analysis	10	15	1 Hr	25	75	3 Hrs	100	
MPA102T	Advanced Pharmaceuti cal Analysis	10	15	1 Hr	25	75	3 Hrs	100	
MPA103T	Pharmaceuti cal Validation	10	15	1 Hr	25	75	3 Hrs	100	
MPA104T	Food Analysis	10	15.	1 Hr	25	75	3 Hrs	100	
MPA105P	Pharmaceuti cal Analysis- I	20	30	6 Hrs	50	100	6 Hrs	150	
-	Seminar /Assignment	-	-	-	-	-	-	100	
			Total					650	
			SEMEST	ER 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	10	15	1 Hr	25	75	3 Hrs	100	

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		and the second	Total	Annennen an	-A-warmen and an and a second and a second and a second a			650
-	Seminar /Assignment	<u>.</u>		-	-	-	-	100
MPA205P	Pharmaceuti cal Analysis- II	20	30	6 Hrs	50	100	6 Hrs	150
MPA204T	Herbal and Cosmetic analysis	10	15	1 Hr	25	75	3 Hrs	100
	Assurance	and a state of a state of the state		ana galance at a constant for the second second		and the second se		

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Cours			Intern	al As	sessment	t	Sem	nd ester ams	Total
e Code	Course	Cor	1372.5		sional kams	T	Mar	Dura	Marks
×		nuo Moe		Mar ks	Durati on	ot al	ks	tion	
			SEMI	ESTER	R I	- Louis and the second			
MQA1 01T	Modern Pharmaceutical Analytical Techniques	10	1	5	1 Hr	25	75	3 Hrs	100
MQA1 02T	Quality Management System	10	1!	5	1 Hr	25	75	3 Hrs	100
MQA1 03T	Quality Control an Quality Assurance	d 10	1!	5	1 Hr	25	75	3 Hrs	100
MQA1 04T	Product Development and Technology Transfer		1!	5.	1 Hr	25	75	3 Hrs	100
MQA1 05P	Pharmaceutical Quality Assuranc Practical I	e 20	30	D	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-		-	-		-	100
			Total						650
	gaaaadaan ina ina aree oo ahaannaadad cone oo waanna ahaan ahaanaa		SEME	ESTER	II.				granamananan serina se
MQA2 01T	Hazards and Safet Management	y 10	1.	5	1 Hr	25	75	3 Hrs	100
MQA2 02T	Pharmaceutical Validation	10	1	5	1 Hr	25	75	3 Hrs	100
MQA2 03T	Audits an Regulatory Compliance	d 10	1	5	1 Hr	25	75	3 Hrs	100
MQA2 04T	Pharmaceutical Manufacturing Technology	10	1	5	1 Hr	25	75	3 Hrs	100
MQA2 05P	Pharmaceutical Quality Assurance Practical II	e 20	3	0	6 Hrs	50	100	6 Hrs	150
dra -	Seminar /Assignment	-	-		-	-	-	-	100
	สีมสุขครามสาของการการการการการการการสอบสาขสมออก		Total	erariolekini a Telebana	ana ana amin'ny faritr'o ana amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr				650

Tables - 20: Schemes for internal assessments and end semester examinations (Pharmaceutical Quality Assurance-MOA)

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			llatory Af		Er Sem	ester	
Course	Cont inuo			Tot	Mar	Dura	Total Marks
	us Mod	Mar ks	Durati on	al	ks	tion	
		SEMEST	TER I				
Good Pharmaceutica Practices	1 10	15	1 Hr	25	75	3 Hrs	100
	a mail a Blan	15	1 Hr	25	75	3 Hrs	100
Clinical Research Regulations	10	15	1 Hr	25	75	3 Hrs	100
Legislation for Drugs Cosmetics, Medical Devices, Biologicals Herbals, an Food Nutraceuticals India ar Intellectual Property Rights	or & 10 id & 10 id In id	15	1 Hr	25	75	3 Hrs	100
Regulatory	20	30	6 Hrs	50	100	6 Hrs	150
Seminar /Assignment	- 10	_	-	-	-	-	100
	Landstein	Total	and no association of the second s	an Somerney and the	n Ann - mainte ann ann ann an		650
ng na ng		SEMES	TER II				
Regulatory Aspects Drugs Cosmetics	of & 10	15	1 Hr	25	75	3 Hrs	100
	Good Pharmaceutica Practices Documentation and Regulator Writing Clinical Research Regulations an Legislation for Drugs Cosmetics, Medical Devices, Biologicals Herbals, an Food Nutraceuticals India ar Intellectual Property Rights Pharmaceutical Regulatory Affairs Practical Seminar /Assignment	CourseCont inuo us Mod eGood Pharmaceutical Practices10Documentation and Regulatory Writing10Clinical Regulations and Legislation for Drugs & Cosmetics, Medical Devices, Biologicals & Herbals, and Food & Nutraceuticals In India and Intellectual Property Rights10Pharmaceutical Regulatory Affairs Practical20Seminar /Assignment20Regulatory Affairs Practical10	CourseCont inuoSes inuoCont inuoSes inuoMod eMar ksMar ksSes inuoCood Pharmaceutical Practices10Documentation and Regulatory Writing10Documentation and Regulators10Documentation and Regulators10Clinical Regulations and Legislation for Drugs & Cosmetics, Medical Devices, Biologicals & Herbals, and India and Intellectual Property Rights10Pharmaceuticals In India and Intellectual Property Rights10Pharmaceutical I Seminar /Assignment20Seminar /Assignment20Regulatory Aspects of Drugs & K10Regulatory Aspects of Drugs & K10Regulatory Aspects Nurg Kaspects10Regulatory Aspects Cos Marce Kaspects10Regulatory Aspects10Seminar Marce Marce Marce10Seminar Marce Marce Marce10Seminar Marce Marce Marce Marce10Seminar Marce 	CourseCont inuo us Mod eSesimal EMar Mod eDurati OnSood Pharmaceutical Practices10151 HrSood Pharmaceutical and Regulatory Writing10151 HrClinical Research Regulations and Legislation for Drugs & Nutraceuticals In India and India and Indi	Courseinuo us Mod e $E \times ms$ Tot al al Mar sTot al alMar Mar (s) $DurationMaralonDurationMaralDurationGoodPharmaceuticalPractices10151 Hr25Documentationand RegulatoryWriting10151 Hr25ClinicalResearchRegulations10151 Hr25Regulations andLegislation forDrugs &Biologicals &Herbals, andFood &Nutraceuticals InIndia andIntellectualProperty Rights10151 Hr25PharmaceuticalRegulatoryAffairs Practical I20306 Hrs50Seminar/Assignment20306 Hrs50RegulatoryAffairs Practical I20306 Hrs50RegulatoryAffairs Practical I10151 Hr25RegulatoryAffairs Practical I20306 Hrs50Seminar/Assignment-1-1-1-1$	Internal AssessmentSeminar (AssignmentCourse $ContinvousModeS = sinal(Nar)TotlandTotMarlandMarlandDurationTotTotlandTotlandTotlandCoodPharmaceuticalPractices10151 Hr2575Documentationand RegulatoryWriting10151 Hr2575ClinicalResearchRegulations andLegislation forDrugs &Biologicals &Herbals, andIndia andIndia andIndia andIndia andIndia andIndia andProperty Rights10151 Hr2575Pharmaceutical inRegulatoryAffairs Practical iCosminar(Assignment20306 Hrs50100Seminar(Assects ofDrugs &Mutraceuticals inIndia andIntellectualProperty Rights20316 Hrs50100RegulatoryAffairs Practical iRegulatoryAssects ofDrugs &Mar10151 Hr2575$	Image: Section of interms interms interms interms intermsImage: Section of interms intermsImage: Section of interms intermsCourse with weights interms100151 Hr25753 HrsDocumentation and Regulatory Writing100151 Hr25753 HrsDocumentation and Regulatory Writing100151 Hr25753 HrsClinical Research Regulations and Legislation for Drugs & Biologicals & Herbals, and India Intellectual Property Rights100151 Hr25753 HrsPharmaceutical property Rights100151 Hr25753 HrsPharmaceutical Pharmaceutical India Intellectual Property Rights100151 Hr25753 HrsPharmaceutical Regulatory Affairs Practical (Affairs Practical)2003006 Hrs501006 HrsSeminar (Assignment100151 Hr25753 Hrs

Tables - 21: Schemes for internal assessments and end semester examinations (Pharmaceutical Regulatory Affairs-MRA)

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	หนึ่งหมายการ ระบบของและของเหตุอย่างส่วนสุดทราย - การระบบระบบ - ส่งหมายของสมบัตรการของส		Total	Tanggan and the second s				650
	Seminar /Assignment	-	-	-	-	-	-	100
MRA20 5P	Pharmaceutical Regulatory Affairs Practical II	20	30	6 Hrs	50	100	6 Hrs	150
MRA20 4T	Regulatory Aspects of Food & Nutraceuticals	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 2T	Regulatory Aspects of Herbal & Biologicals	10	15	1 Hr	25	75	3 Hrs	100

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				chnology sessment			emester ams	Tota
Course Code	Course	Conti		ional ams	Tot	Mar	Durati	l Mar
		nuous Mode	Mar ks	Durati on	al	ks	on	ks
		S	EMESTE	R 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
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		S	SEMESTE	ER II				T
MPB20 1T	Proteins and protein Formulation	10	15	1 Hr	25	75	3 Hrs	100
MPB20 2T	Immunotechnolo gy	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
	ne Antonio da composito e con segundo de la constructiva de la contra de la constructiva de la constructiva de Nota	women's to office on the second states of the	Total					650

Tables - 22: Schemes for internal assessments and end semester examinations (Pharmaceutical Biotechnology-MPR)

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		armacy Inter		sessmer	nt	Sem	nd ester ams	Tot
Cours e Code	Course	Conti		ional ams	Tot	Mar	Durati	al Mar ks
Code		nuous Mode	Mar ks	Dur atio n	al	ks	on	KS
		SEM	ESTER	I			•	
MPP10 1T	Clinical Pharmacy Practice	10	15	1 Hr	25	75	3 Hrs	100
MPP10 2T	Pharmacotherapeutic s-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
nego o marata 2019 Montebano en entre anos		Tota	ıl					650
ene an 'n 'n tret war de besteren en oarderen en oarderen en	andiana na mang mang mang mang mang mang man	SEM	ESTER	Π				
MPP20 1T	Principles of Quality Use of Medicines	10	15	1 Hr	25	75	3 Hrs	100
MPP10 2T	Pharmacotherapeutic s 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	Pharmacoepidemiolo gy & 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
		Tot	al					650

Tables - 23: Schemes for internal assessments and end semester examinations (Pharmacy Practice-MPP)

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		Int	ernal A	ssessment	t		emester ams	Tot
Course Code	Course	Conti		sional ams	Tot	Mar	Durati	al Mar
		nuous Mode	Mar ks	Durati on	al	ks	on	ks
		S	EMESTE	ER 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-1	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
a matalan a sense di Andri a da antare di a da attare di	an san an a	<u> </u>	Fotal					650
		S	EMESTI	ER 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 pharmacovigilanc e	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
	en Canada e su a contra contra con en de medide maria (o a la constituto a la que constituto a constituto a con		Total					650

Tables - 24: Schemes for internal assessments and end semester examinations (Pharmacology-MPL)

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Course Code	Course	Contin		sional ams	Tot	Mar	Durati	l Mar
		uous Mode	Mar ks	Durati on	al	ks	on	ks
			SEMEST	ER I				
MPG10 1T	Modern Pharmaceutica I Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPG10 2T	Advanced Pharmacognos y-1	10	15	1 Hr	25	75	3 Hrs	100
MPG10 3T	Phytochemistr y	10	15	1 Hr	25	75	3 Hrs	100
MPG10 4T	Industrial Pharmacognos <u>ti</u> cal Technology	10	15	1 Hr	25	75	3 Hrs	100
MPG10 5P	Pharmacognos y Practical I	20	30	6 Hrs	50	100	6 Hrs	150
	Seminar /Assignment	-	-	-	_	_	-	100
			Total				e names anne e energia en la anagene terrate de second	650
	Saatabaan on the and the foreign of propagations in the second states of the second states and the		SEMEST	ER II				-
MPG20 1T	Medicinal Plant biotechnology	10	15	1 Hr	25	75	3 Hrs	100
MPG10 2T	Advanced Pharmacognos y-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	Pharmacognos y Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	- '	-		-	-	-	100
			Total					650

Tables - 25: Schemes for internal assessments and end semester examinations (Pharmacognosy-MPG)

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		(S	emester	· III& IV)				
		In	ternal A	ssessmen	t		emester ams	Tota
Course Code	Course	Conti Exam					Durati	l Mark s
		s Mode	Mark s	Durati on	al	S	on	8
น กมาย แม่ และสุดสุดสา สาราวมายมายางที่มีม			SEMEST	er III	2	Supportant of the second s		
MRM30 1T	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
(II: (10))////AAN y MARKANG/ ALMAN AND AL ANNO ANY			Total					525
ante de la construction de la construction de la constru			SEMEST	fer iv				
-	Journal club		-		25	-		25
-	Discussion / Presentation (Proposal Presentation)		-	-	75	-	-	75
	Research work and Colloquium	-	-		-	400	1 Hr	400
an ann a suite manaichte an saideanna ann			Total					500

Tables - 26: Schemes for internal assessments and end semester examinations octor III & IV/ 10

*Non University Examination

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11.2. Internal assessment: Continuous mode

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

Table -	27: Scheme	for awarding	internal	assessment:	Continuous	mode
			Thoomy			

Criteria	Maximum Marks
Attendance (Refer Table – 28)	8
Student – Teacher interaction	· 2 ·
Total	10
Practical	
Attendance (Refer Table – 28	10
Based on Practical Records, Regular viva voce, etc.	10
Total	20

Table - 28: 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	1	2.5
Less than 80	0	0

11.2.1. Sessional Exams

Two sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college(s). The scheme of question paper for theory and practical sessional examinations is given in the table. The average marks of two sessional exams shall be computed for internal assessment as per the requirements given in tables.

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 12, 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 Sanjew Doraw on passing.

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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. Reexamination of end semester examinations

Reexamination of end semester examination shall be conducted as per the schedule given in table 29. The exact dates of examinations shall be notified from time to time.

Semester	For Regular Candidates	For Failed Candidates
I and III	November / December	May / June
II and IV	May / June	November / December

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16. Allowed to keep terms (ATKT):

No student shall be admitted to any examination unless he/she fulfills the norms given in 6. ATKT rules are applicable as follows:

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.

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 ATKT. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

17. Grading of performances

17.1. Letter grades and grade points allocations:

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and their corresponding grade points are given in Table - 30.

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Percentage of Marks Obtained	Letter Grade	Grade Point	Performance		
90.00 - 100	0	10	Outstanding		
80.00 - 89.99	Α	9	Excellent		
70.00 - 79.99	В	8	Good		
60.00 - 69.99		2001.11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Fair		
50.00 - 59.99	D	6	Average		
Less than 50	en e	0 0	Fail		
Absent	AB	0	Fail		

Table – 30: Letter grades and grade points equivalent to Percentage of marks and performances

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.

18. 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. 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:

SGPA = $C_1G_1 + C_2G_2 + C_3G_3 + C_4G_4$ $C_1 + C_2 + C_3 + C_4$

The SGPA is calculated to two decimal points. It should be noted that, the SGPA for any semester shall take into consideration the F and ABS grade awarded in that semester. For example if a learner has a F or ABS grade in course 4, theSGPA shall then be computed as:

SGPA = $\begin{array}{c} C_1G_1 + C_2G_2 + C_3G_3 + C_4 * ZERO \\ \\ C_1 + C_2 + C_3 + C_4 \end{array}$

19. 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. The CGPA shall reflect the failed status in case of F grade(s), till the course(s) is/are passed. When the course(s) is/are passed by obtaining a pass grade on subsequent examination(s) the CGPA

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shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

 $CGPA = \frac{C_1S_1 + C_2S_2 + C_3S_3 + C_4S_4}{C_1 + C_2 + C_3 + C_4}$

where C_1 , C_2 , C_3 ,... is the total number of credits for semester I,II,III,.... and S_1 , S_2 , S_3 ,... is the SGPA of semester I,II,III,.....

20. Declaration of class

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

21. Project work

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).

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.

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

500 Marks

Evaluation of Presentation: Presentation of work Communication skills Question and answer skills

Total

250 Marks

100 Marks

50 Marks

100 Marks

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22. 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.

23. Award of degree

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

24. 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.

25. Revaluation I 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.

26. 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.

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