2016

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

(Based on NOTIFICATION IN THE GAZETTE OF INDIA NO. 362, DATED DECEMBER 11, 2014)

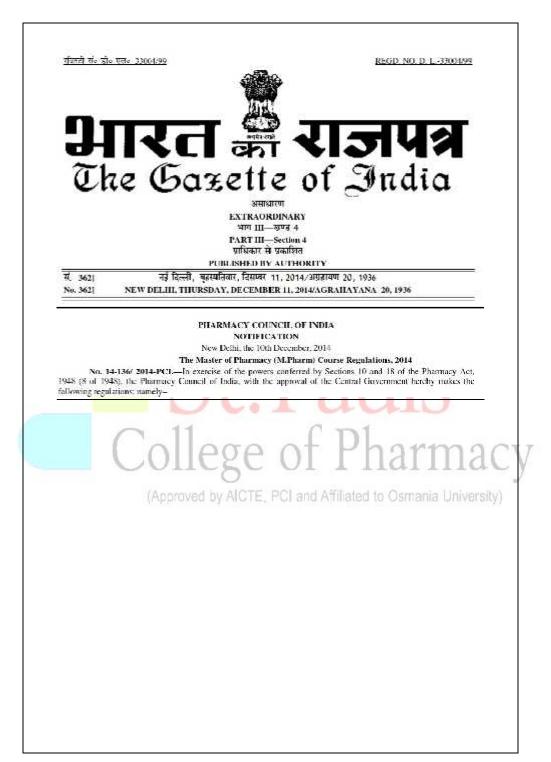
SCHEME AND SYLLABUS



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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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 semestershall 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.

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 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
		3 A 1 A 1 A

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

Approved by AICTE, PCI and Affiliated to Osmania Universit

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.

Tub	e – 2: Course of study fo	I IVI. PITATI	n. (Priaring	aceutics)	
Course Code	Course	Credit Hours	Credit Points	Hrs./w k	Marks
	Semest	ter I			
MPH101T	Modern Pharmaceutical	4	4	4	100
	Analytical Techniques				
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
	Semest	er 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)

Table	Table - 3: Course of study for M. Pharm. (Industrial Pharmacy)								
Course Code	Course	Credit Hours	Credit Points	Hrs./w k	Marks				
	Semest	er 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	12	6	12	150				
-	Seminar/Assignment	7	4	7	100				
	Total	35	26	35	650				
	Semeste	er II							
MIP201T	Advanced Biopharmaceutics and Pharmacokinetics	4	4	4	100				
MIP202T	Scale up and Technology Transfer	4	4	4	100				
MIP203T	Pharmaceutical Production Technology	U ₄ I	1 411	a ₄ 11	100				
MIP204T	Entrepreneurship Management	4	4	4	100				
MIP205P	Industrial Pharmacy Practical	12	6	12	150				
-	Seminar/Assignment	7	4	7	100				
	Total	35	26	35	650				

Tuble	. Course of study for M				ciiisti y)
Course Code	Course	Credit	Credit	Hrs./w	Marks
		Hours	Points	k	
	Semes	ster I			
MPC101T	Modern Pharmaceutical				
MPC1011	Analytical Techniques	4	4	4	100
MPC1012T	Advanced Organic				100
WII C10121	Chemistry –I	4	4	4	100
	Advanced Medicinal				
MPC103T	chemistry	4	4	4	100
MPC104T	Chemistry of Natural		4	4	100
	Products	4	4	4	100
MOCIOSD	Pharmaceutical	12 6	12	150	
MPC105P	Chemistry Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650
	Semes	ter II			
MPC201T	Advanced Spectral				
	Analysis	4	4	4	100
MPC202T	Advanced Organic	4	4	4	100
	Chemistry –II		7	7	100
MPC203T	Computer Aided Drug		4	4	100
	Design	4	4	4	100
MPC204T	Pharmaceutical Process	4	4	4	100
	Chemistry	4			
MPC205P	Pharmaceutical	12-	-6 h	120	150
1411 02031	Chemistry Practical II	1.11			
-	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
	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
	Semeste	er II			
MPA201T	Advanced Instrumental Analysis	4	4	4	100
MPA202T	Modern Bio-Analytical Techniques	4	4	4	100
MPA203T	Quality Control and Quality	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)

Course	Course of study for M. Pharn	Credit	Credit	Hrs./w	,
Code	Course	Hours	Points	k	Marks
	Semest	er I			
MOAIAIT	Modern Pharmaceutical				
MQA101T	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
	Semeste	er II			
MQA201T	Hazards and Safety Management	4	4	4	100
MQA202T	Pharmaceutical Validation	4	4	4	100
MQA2 <mark>03T</mark>	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

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

Ta	ble – 7: Course of study for	M. Pharm	. (Regulat	ory Affail	rs)
Course	Course	Credit	Credit	Hrs./	Marks
Code	course	Hours	Points	wk	WIGINS
	Semes	ster I			
MRA					100
101T	Good Regulatory Practices	4	4	4	100
MRA	Documentation and	4	4	4	100
102T	Regulatory Writing		т		100
MRA	Clinical Research	4	4	4	100
103T	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
	Semes	ter II			
MRA 201T	Regulatory Aspects of Drugs	4	4	4	100
MRA 202T	Regulatory Aspects of Herbal & Biologicals	4	4	4	100
MRA 203T	Regulatory Aspects of Medical Devices	4 ⁺	4	9 ⁴ 111	100
MRA 204T	Regulatory Aspects of Food & Nutraceuticals	4	4	4	100
MRA 205P	Regulatory Affairs Practical II	PCI and A	filiated to	Osmanii 12	Universit 150
	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650

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

Table -	8: Course of study for M. Pl	narm. (Phar	maceutica	l Biotech	nology)
Course	Course	Credit	Credit	Hrs./w	Marks
Code	course	Hours	Points	k	munto
	Semo	ester I			
MPB	Modern Pharmaceutica				
101T	Analytical Techniques	4	4	4	100
MPB	Misushial And Callular Dialars			4	100
102T	Microbial And Cellular Biology	4	4	4	100
MPB	Bioprocess Engineering an	d 4	4	4	100
103T	Technology		4	4	100
MPB	Advanced Pharmaceutica	al 4	4	4	100
104T	Biotechnology		·	·	100
MPB	Pharmaceutical Biotechnolog	y 12	6	12	150
105P	Practical I	12	U	12	150
-	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650
	Seme	ster II			
MPB	Proteins and protei				
201T	Formulation	4	4	4	100 🖉
MPB					
202T	Immunotechnology	4	4	4	100
MPB	Bioinformatics and Compute	V_4		dII	1 d
203T	Technology		4	4	100
MPB	Biological Evaluation of Dru	g4	4	4	100
204T	Therapy		-	7	100
MPB	Pharmaceutical Biotechnolog	y 12	6	12	150
205P	Practical II	12	0	12	130
-	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650

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

Tab	ie – 9: Course of study for M	. Priarm. (Pharmacy	Practice)	
Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
	Semester	·I			
MPP	1				
101T	Clinical Pharmacy Practice	4	4	4	100
MPP		4	4	4	100
102T	Pharmacotherapeutics-I	4	4	4	100
MPP	Hospital & Community				100
103T	Pharmacy	4	4	4	100
MPP	Clinical Research	4	4	4	100
104T	Cliffical Research	4		7	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	Principles of Quality Use of				100
201T	Medicines	4	4	4	100
MPP	Pharmacotherapeutics II	4	4	4	100
102T	·				100
MPP	Clinical Pharmacokinetics and	-			
203T	Therapeutic Drug Monitoring	4	4	4	100
MPP	Pharmacoepidemiology &	4	4	4	100
204T	Pharmacoeconomics				.00
MPP 205P	Pharmacy Practice Practical II	12	P_{6}	12	150
-	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650
-	N. 7.				

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

	Table – TO: Course of st	uay for (P	narmacoio	gy)	
Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
	Semest	er 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
	Semest	er II			
MPL 201T	Advanced Pharmacology II	4	4	4	100
MPL 202T	Pharmacological and Toxicological Screening Methods-II	4	4	4	100
MPL		A C			
203T	Principles of Drug Discovery	4	4	4	100
MPL 204T	Experimental Pharmacology practical- II	4	4	4	100
MPL	Uniter	UL	T TT	air.	LIG.
205P	Pharmacology Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650

Table - 10: Course of study for (Pharmacology)

	ie - 11. Course of study for	· · · · · · · · · · · · · · · · · · ·		(cognosy)		
Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks	
	Semeste	er I				
	Modern Pharmaceutical	, ,	, ,			
MPG101T	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	
	Semester	r II				
	Medicinal Plant	,	,			
MPG201T	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	
MPG20 <mark>5P</mark>	Pharmacognosy 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)

College of Pharmacy

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

Tuble The Semester mise creates and	
Semester	Credit Points
Ι	26
	26
III	21
IV UUIUSU UI I	20110
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

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	01
Programs (related to the specialization of the student)	01
Participation in international Level	
Seminar/Conference/Workshop/Symposium/ Training	02
Programs (related to the specialization of the student)	52
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

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

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 eachM.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.

- 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 sessionalexam and before the end semester exam.

11. Examinations/Assessments

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

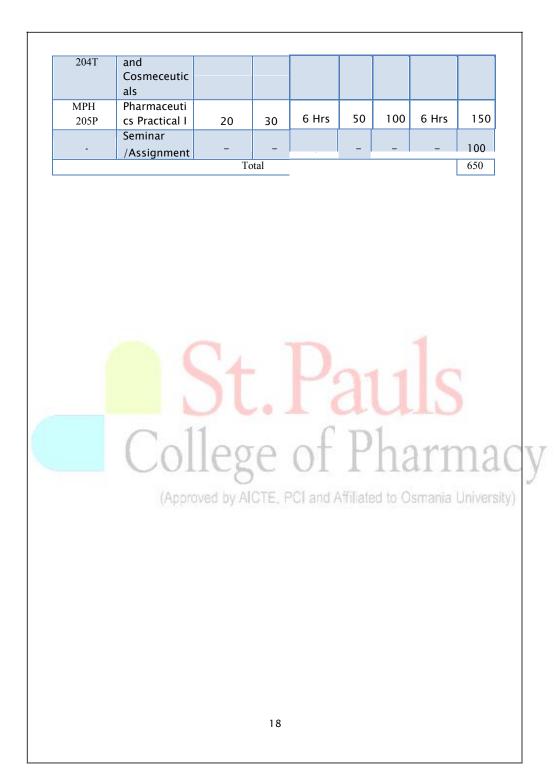
11.1. End semester examinations

The End Semester Examinations for each theory and practical coursethrough semesters I to IVshall beconducted 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.

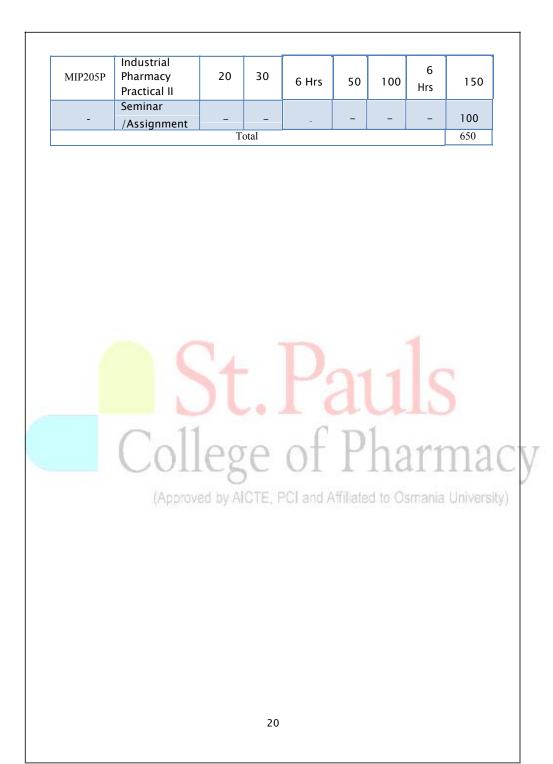
St. Pauls College of Pharmacy

Tables - 1616 : Schemes for internal assessments and end semester examinations

Course		Inter	nal Asses	ssment			End mester xams	Tota
Code	Course	Continu ous Mode	ous Mar Durati		Tot al	Mar ks	Durati on	Mar ks
			ks	on				
	Modern	51	EMESTE	КІ			1	
MPH 101T	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
			otal					650
	Molecular	SE	MESTE	K II			1	
MPH 201T	Pharmaceuti cs(Nano Tech and Targeted DDS)	10	15	1 Hr	25	75	3 Hrs	100
MPH 202T	Advanced Biopharmac eutics & Pharmacokin etics	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	Cosmetic	10	15	1 Hr	25	75	3 Hrs	100



	. (maustri	ai Phai	rmacy- N	/IIP)			
Course		Int	ernal Ass	sessment		Sem	nd ester ums	Total
Code	Course	Conti nuou s Mode		sional xams Durati on	Tot al	Mar ks	Dura tion	Marks
		S	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
			otal					650
		S	EMESTI	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



2				nemistry– sessment		End Semest Exan	er	
Course Code	Course	Cont Sessional						Total
Code		inuo	Ez	kams	Tot	Mar	Du .	Marks
		us Mod e	Mar ks	Durati on	al	ks	rati ON	
			SEMEST	TER I				
MPC101T	Modern Pharmaceutic al 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	Pharmaceutic al Chemistry Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
			otal					650
	Advanced		SEMEST	ER II				
MPC201T	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

	al Chemistry	'					Hrs				
	Practical II Seminar								_		
_			_	_	_	-	_	100			
	/Assignment										
		T	otal					650			
	Tables - 1 semester										
						E	End				
		Inte	ernal Asse	essment			nester				
Course						Ех	ams	Total			
Code	Course	Contin	Ses	sional				Marks			
code		uous	E	Exams		Mark	Dura				
		Mode	Mark	Durati	al	S	tion				
		mode	S	on							
			SEMEST	ER I							
	Modern										
MPA101T	Pharmaceuti	10	15	1 Hr	25	75	3 Hrs	100			
	cal Analysis										
	Advanced										
MPA102T	Pharmaceuti	10	15	1 Hr	25	75	3 Hrs	100			
	cal Analysis										
		Pharmaceuti									
MPA103T	cal	10	15	1 Hr	25	75	3 Hrs	100			
	Validation										
MPA104T	Food			1.114	25	75	3 Hrs	100	6		
	Analysis	10	15	1 Hr	25	75	51115	100			
	Pharmaceuti										
MPA105P	cal Analysis-	20	30	6 Hrs	50	100	6 Hrs	150	¥.		
	1								_		
	Seminar							100			
-	/Assignment	-	-	-	-	-		100	Ľ.,		
			Total					650			
			SEMEST	ER II							
	Advanced										
MPA201T	Instrumental	10	15	1 Hr	25	75	3 Hrs	100			
	Analysis				25	, ,					
	Modern Bio-										
MPA202T	Analytical	10	15	1 Hr	25	75	3 Hrs	100			
	Techniques				23						
	Quality								7		
MPA203T	Control and	10	15	1 Hr	25	75	3 Hrs	100			
	Quality				25	, ,	-				

	Assurance								
	Herbal and								
MPA204T	Cosmetic	10	15	1 Hr	25	75	3 Hrs	100	
	analysis								
	Pharmaceuti								
MPA205P	cal Analysis-	20	30	6 Hrs	50	100	6 Hrs	150	
	II								
	Seminar								
-	/Assignment	-	-	-	-	-	-	100	
Total									

St. Pauls College of Pharmacy

	examinations (Ph	arma	ceutica	<u>l Quality</u>	Assur			
Cours		Internal Assessment			Sem	nd ester ams	Total	
e Code	Course	Contr nuous Mode	Mar	Sessional Exams Dura on	ti al	Mar ks	Dura tion	Marks
		2	SEMEST	ER 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
		TO	otal	at		20	414	650
		5	SEMESTI	ER 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
		т	otal			·		650

	semester ex	Carrina		MRA)	utical	Regula			
		In	ternal Ass	sessment		Sen	end nester ams		
Course Code	Course	Cont inuo		ssional xams				Total Marks	
		us Mod e	Mar ks	Durati on	Tot al	Mar ks	Dura tion		
			SEMEST	TER I		ļ		ļ	
MRA10 1T	Good Pharmaceutical Practices	10	15	1 Hr	25	75	3 Hrs	100	
MRA10 2T	Documentation and Regulatory	10	15	1 Hr	25	75	3 Hrs	100	
MRA10 3T	Writing Clinical Research	10	15	1 Hr	25	75	3 Hrs	100	
	Regulations Regulations and Legislation for								
	Drugs & Cosmetics,								
MRA10 4T	Medical Devices, Biologicals & Herbals, and Food & Nutraceuticals In India and Intellectual Bropacty Biobts	10	15	1 Hr	25	75	3 Hrs	100	С у)
MRA10	Property Rights Pharmaceutical								1
5T	Regulatory Affairs Practical I	20	30	6 Hrs	50	100	6 Hrs	150	
-	Seminar /Assignment	_	_	_		-	-	100	
			Total					650	
			SEMEST	ER II					
MRA20 1T	Regulatory Aspects of Drugs & Cosmetics	10	15	1 Hr	25	75	3 Hrs	100	

	Regulatory							
MRA20 2T	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
		Т	otal					650

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		Inte	ernal Ass	essment			emester ams	Tota
Course Code	Course	Conti nuous Mode		ssional Exams Durati on	Tot al	Mar ks	Durati on	l Mar ks
		S	SEMESTI	ER I				
MPB10 1T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPB10	Microbial And		15	1 Hr	25	75	3 Hrs	100
2T MPB10 3T	Cellular Biology Bioprocess Engineering and Technology	10 10	15 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
	////////	Т	otal					650
		S	EMESTE	ER II				L
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	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
		Т	otal					650

Tables - 22. Schemes for internal assessments and end semester

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	G	examinatio	Inter			ernal Assessment			Tot	
Image: Second		Course	nuous	E	xams Dur		Mar		al Mar	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$			Mode	ks						
IT Practice 10 15 1 Hr 25 75 3 Hrs 100 MPP10 Pharmacotherapeutic 10 15 1 Hr 25 75 3 Hrs 100 MPP10 Hospital ς_{-1} 10 15 1 Hr 25 75 3 Hrs 100 MPP10 Hospital ς_{0} 10 15 1 Hr 25 75 3 Hrs 100 MPP10 Pharmacy Practical 10 15 1 Hr 25 75 3 Hrs 100 MPP10 Pharmacy Practice - - 6 - - 100 MP10 Pharmacy Practice - 6 - - 100 Seminar /Assignment 1 - - - - - 100 MP20 Principles of Quality - - - - - - 100 MP20 Prinmacotherapeutic 10 <t< td=""><td></td><td></td><td>SEM</td><td>ESTER</td><td>t I</td><td></td><td></td><td></td><td></td></t<>			SEM	ESTER	t I					
$\begin{array}{ c c c c c } \hline MPP10 & Pharmacotherapeutic s -1 & 10 & 15 & 1 Hr & 25 & 75 & 3 Hrs & 100 \\ \hline MPP10 & Hospital & & 10 & 15 & 1 Hr & 25 & 75 & 3 Hrs & 100 \\ \hline MPP10 & Pharmacy & 10 & 15 & 1 Hr & 25 & 75 & 3 Hrs & 100 \\ \hline MPP10 & Pharmacy Practice & & & & & & & & & & & & & & & & & & &$	MPP10	Clinical Pharmacy								
2T 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 MP10 4T Clinical Research 10 15 1 Hr 25 75 3 Hrs 100 MP10 4T Pharmacy Practice 6 6 6 6 6 6 6 6 6 6 100 15 1 Hr 25 75 3 Hrs 100 MP10 Pharmacy Practice 20 30 Hrs 50 100 6 Hrs 150 MP20 Seminar /Assignment 2 2 1 1 1 1 10 1 1 1 1 1 1 1 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1T	Practice	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 Pharmacy Practice 10 15 1 Hr 25 75 3 Hrs 100 MPP10 4T Clinical Research Pharmacy Practice 10 15 1 Hr 25 75 3 Hrs 100 MPP10 5P Practical I 20 30 Hrs 50 100 6 Hrs 150 - Seminar /Assignment - - - - 100 6 Hrs 100 WP20 - Principles of Quality 1T Use of Medicines 10 15 1 Hr 25 75 3 Hrs 100 MPP20 2T Pharmacotherapeutic 3T 10 15 1 Hr 25 75 3 Hrs 100 MPP20 3T Pharmacocepidemiolo Monitoring 10 15 1 Hr 25 75 3 Hrs 100 MPP20 3T Pharmacoepidemiolo Pharmacoeconomics Pharmacoeconomics 10 15	MPP10	Pharmacotherapeutic								
3T community 10 15 1 Hr 25 75 3 Hrs 100 MPP10 Clinical Research 10 15 1 Hr 25 75 3 Hrs 100 MPP10 Pharmacy Practice 6 75 3 Hrs 100 MPP10 Pharmacy Practice 6 75 3 Hrs 100 MPP10 Pharmacy Practice 6 75 3 Hrs 100 MP10 Pharmacy Practice 75 3 Hrs 100 MP10 Pharmacy Practical I 20 30 Hrs 50 100 6 Hrs 150 Seminar /Assignment - - - - - 100 6 Hrs 100 MP20 Principles of Quality 10 15 1 Hr 25 75 3 Hrs 100 MP10 Pharmacotherapeutic 10 15 1 Hr 25 75 3 Hrs 100 MP20 Pharmacokinetics and Therapeutic Drug and Therapeutic Drug and Therapeutic Drug and Therapeutic Drug and Therapeutic Pharmacoeco	2T	s–l	10	15	1 Hr	25	75	3 Hrs	100	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Community	10	15	1 Hr	25	75	3 Hrs	100	
MPP10 Pharmacy Practice 20 30 Hrs 20 100 6 Hrs 150 SP Practical I 20 30 Hrs 50 100 6 Hrs 150 Seminar /Assignment - - - - - 100 Total - - - - - - 100 MP20 Principles of Quality 1T Use of Medicines 10 15 1 Hr 25 75 3 Hrs 100 MP10 Pharmacotherapeutic 2T s II 10 15 1 Hr 25 75 3 Hrs 100 MP10 Pharmacokinetics and Therapeutic Drug 3T 10 15 1 Hr 25 75 3 Hrs 100 MP20 3T Pharmacoepidemiolo 4T gy & Pharmacoeconomics 10 15 1 Hr 25 75 3 Hrs 100 MP20 5P Pharmacoepidemiolo Pharmacoeconomics 10 15 1 Hr 25 75 3 Hrs		,								
5PPractical I 20 30 Hrs 50 100 6 Hrs 150 Seminar /Assignment $$ $ 100$ TotalSeminar /Assignment $$ $ 100$ Total $ -$ <			10	15		25	75	3 Hrs	100	
Seminar /Assignment $ 100$ TotalTotalTotalMPP20Principles of Quality 1T $ 650$ SEMESTER IIMPP20Principles of Quality 1T 10 15 1 Hr 25 75 3 Hrs 100 MP10Pharmacotherapeutic 2T 10 15 1 Hr 25 75 3 Hrs 100 MP20Pharmacokinetics and Therapeutic Drug Monitoring 10 15 1 Hr 25 75 3 Hrs 100 MP20Pharmacoepidemiolo Pharmacoepidemiolo 4T $9y$ & Pharmacoepidemiolo Pharmacoepidemiolo 10 15 1 Hr 25 75 3 Hrs 100 MP20 SPPharmacopidemiolo Pharmacopidemiolo SP 20 30 6 Hrs 50 100 6 Hrs 150		-								
Total650Total650SEMESTER IIMPP20Principles of Quality 1T10151 Hr25753 Hrs100MPP10Pharmacotherapeutic 2T10151 Hr25753 Hrs100MPP10Pharmacotherapeutic 2T10151 Hr25753 Hrs100MPP20 3TClinical Pharmacokinetics and Therapeutic Drug Monitoring10151 Hr25753 Hrs100MPP20 4TPharmacoepidemiolo Pharmacoeconomics SP10151 Hr25753 Hrs100MPP20 5PPharmacy Practice Practical II20306 Hrs501006 Hrs150	5P	Practical I	20	30	Hrs	50	100	6 Hrs	150	
SEMESTER IIMPP20Principles of Quality 1TUse of Medicines10151 Hr25753 Hrs100MPP10Pharmacotherapeutic 2Ts II10151 Hr25753 Hrs100MPP20Silical Pharmacokinetics and Therapeutic Drug Monitoring10151 Hr25753 Hrs100MPP20Pharmacoepidemiolo Monitoring10151 Hr25753 Hrs100MPP20Pharmacoepidemiolo Pharmacoepidemiolo Pharmacoeconomics10151 Hr25753 Hrs100MPP20 SPPharmacoepidemiolo Pharmacoeconomics20306 Hrs501006 Hrs150	-	Seminar /Assignment	-	-	-	-	-	-	100	
MPP20Principles of Quality 1TUse of Medicines10151 Hr25753 Hrs100MPP10Pharmacotherapeutic 2Ts II10151 Hr25753 Hrs100MPP20Silical Pharmacokinetics 	Total						650			
1TUse of Medicines10151 Hr25753 Hrs100MPP10Pharmacotherapeutic TT10151 Hr25753 Hrs1002TS II10151 Hr25753 Hrs100MPP20Pharmacokinetics and Therapeutic Drug Monitoring10151 Hr25753 Hrs100MPP20Pharmacoepidemiolo Pharmacoeconomics10151 Hr25753 Hrs100MPP20 SPPharmacoeconomics10151 Hr25753 Hrs100MPP20 SPPharmacy Practice Practical II20306 Hrs501006 Hrs150			SEM	ESTER	. II					
MPP10 2TPharmacotherapeutic s II10151 Hr25753 Hrs100Clinical MPP20 3TPharmacokinetics and Therapeutic Drug Monitoring10151 Hr25753 Hrs100MPP20 4TPharmacoepidemiolo Pharmacoeconomics10151 Hr25753 Hrs100MPP20 9Pharmacoepidemiolo Pharmacoeconomics10151 Hr25753 Hrs100MPP20 5PPharmacoeconomics20306 Hrs501006 Hrs150	MPP20	Principles of Quality								
2Ts II10151 Hr25753 Hrs100MPP20 3TPharmacokinetics and Therapeutic Drug Monitoring10151 Hr25753 Hrs100MPP20 4TPharmacoepidemiolo Pharmacoeconomics10151 Hr25753 Hrs100MPP20 5PPharmacoepidemiolo Pharmacoeconomics10151 Hr25753 Hrs100MPP20 5PPharmacoeconomics20306 Hrs501006 Hrs150	1T		10	15	1 Hr	25	75	3 Hrs	100	
Clinical MPP20 3TPharmacokinetics and Therapeutic Drug Monitoring10151 Hr25753 Hrs100MPP20 4TPharmacoepidemiolo Pharmacoeconomics10151 Hr25753 Hrs100MPP20 5PPharmacoeconomics Pharmacy Practice Practical II10151 Hr25753 Hrs100										
MPP20 3TPharmacokinetics and Therapeutic Drug Monitoring10151 Hr25753 Hrs100MPP20 4TPharmacoepidemiolo Pharmacoeconomics10151 Hr25753 Hrs100MPP20 5PPharmacoeconomics10151 Hr25753 Hrs100MPP20 5PPharmaco Practice Practical II20306 Hrs501006 Hrs150	2T		10	15	1 Hr	25	75	3 Hrs	100	
MIP20 gy & 10 15 1 Hr 25 75 3 Hrs 100 4T 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		Pharmacokinetics and Therapeutic Drug	10	15	1 Hr	25	75	3 Hrs	100	
4T 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	MPP20	Pharmacoepidemiolo								
5P Practical II 20 30 6 Hrs 50 100 6 Hrs 150	4T	5.	10	15	1 Hr	25	75	3 Hrs	100	
- Seminar /Assignment 100		•	20	30	6 Hrs	50	100	6 Hrs	150	
	-	Seminar /Assignment	-	-	-	-	-	-	100	

		Inte	ernal Ass			End Se Exa		Tot
Course Code	Course	Conti nuous		ssional Exams Durati	Tot al	Mar	Durati	al Mar ks
		Mode	ks	on		ks	on	KS
		5	SEMESTI	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-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
	//////////////////////////////////////	Т	`otal					650
		S	EMESTE	ER II				
MPL20	Advanced							
1T MPL10 2T	Pharmacology II Pharmacological and Toxicological Screening Methods-II	10	15	1 Hr 1 Hr	25	75	3 Hrs 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
		Т	`otal					650

Tab	les – 25: Schen						semeste	er
	exar	ninations Inte	(Pharr rnal Asse	-	sy-MP	End Se	emester	Tota
Course Code	Course	Contin uous	E	ssional xams	Tot	Mar	Durati	l Mar
		Mode	Mar ks	Durati on	al	ks	on	ks
		5	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 tical 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
			Fotal			A.	LU.	650
		S	EMEST	ER II				
MPG20 1T	Medicinal Plant biotechnology	leg	e ₁₅	Q Hr	25	0,75	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
		1	Fotal					650

		Internal Assessment				End Semester Exams		
Course Code	Course	Conti nuou		essional Exams	Tot	Mark	Durati	l Mark s
		s Mode	Mark s	Durati on	al	S	on	5
			SEMES	STER III				
MRM30 1T	Research Methodology and Biostatistics*	10	15	1 Hr	25	75	3 Hrs	100
-	Journal club	-	-	-	25	-	_	25
	Discussion / Presentation (Proposal	-	-	-	50	-	_	50
	Presentation) Research work*	-	-	-	-	350	1 Hr35	0
Total 525						525		
			SEMEST	ER IV				
	~~~	T C	) ~					
-	Journal club	ed by A	CTE. F	-	25	-	-	25
-	Discussion / Presentation (Proposal Presentation)	_	-	-	75	-	-	75
-	Research work and Colloquium	-	-	-	-	400	1 Hr	400
			Total					500

# 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

Theory				
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	2	2.5
Less than 80	0	0

C (0) 14

# 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 courseincluding 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 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. 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.

# Table - 29: Tentative schedule of end semester examinations

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

# 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 IIsemesters 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. By AICTE PCI and Africated to Osmania University)

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.

Fercentage of marks and performances							
Percentage of Marks Obtained	Letter Grade	Grade Point	Performance				
90.00 - 100	0	10	Outstanding				
80.00 - 89.99	A	9	Excellent				
70.00 - 79.99	В	8	Good				
60.00 - 69.99	С	7	Fair				
50.00 - 59.99	D	6	Average				
Less than 50	F	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:

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

## 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 statusin case of F grade(s), till the course(s) is/are passed. When the course(s) is/are passedby obtaining a pass grade on subsequent examination(s) theCGPA 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,.... .

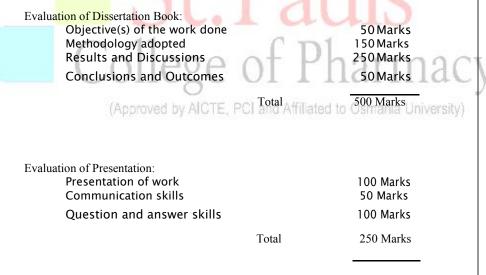
20. Declaration of class

The class shall be 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			

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.



# 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. Howeve<mark>r, the ca</mark>ndidates can apply for retotaling by paying pres<mark>c</mark>ribed 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.

# College of Pharmac

