

# Scheme and Syllabus

## M. Pharmacy Pharmacology

Batch 2017 onwards



# PTU

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By  
Board of Studies Pharmacy  
Department of Academics

## First Semester

Course Code	Course Name	L	P	Marks			Credits
				Internal	External	Total	
MPL101T	Modern Pharmaceutical Analytical Techniques	4	-	25	75	100	4
MPL102T	Advanced Pharmacology-I	4	-	25	75	100	4
MPL103T	Pharmacological & Toxicological Screening Methods-I	4	-	25	75	100	4
MPL104T	Cellular & Molecular Pharmacology	4		25	75	100	4
MPL105P	Experimental Pharmacology-I	-	12	50	100	150	6
-	Seminar/Assignment <sup>#</sup>	-	7	-	-	100	4
<b>Total</b>		<b>16</b>	<b>19</b>	<b>150</b>	<b>400</b>	<b>650</b>	<b>26</b>

- # Minimum five seminar/assignment each of 20 marks per semester

## Second Semester

Course Code	Course Name	L	P	Marks			Credits
				Internal	External	Total	
MPL201T	Advanced Pharmacology II	4	-	25	75	100	4
MPL202T	Pharmacological & Toxicological Screening Methods-II	4	-	25	75	100	4
MPL203T	Principles of Drug Discovery	4	-	25	75	100	4
MPL204T	Clinical Research & Pharmacovigilance	4		25	75	100	4
MPL205P	Experimental Pharmacology-II	-	12	50	100	150	6
-	Seminar/Assignment <sup>#</sup>	-	7	-	-	100	4
<b>Total</b>		<b>16</b>	<b>19</b>	<b>150</b>	<b>400</b>	<b>650</b>	<b>26</b>

- # Minimum five seminar/assignment each of 20 marks per semester

## Third Semester

Course Code	Course Name	L	P	Marks			Credits
				Internal	External	Total	
MRM301T	Research Methodology & Biostatistics*	4	-	25	75	100	4
-	Journal Club	1	-	25	-	25	1
-	Discussion / Presentation (Proposal Presentation)	2	-	50	-	50	2
-	Research Work*	-	28	-	350	350	14
<b>Total</b>		<b>7</b>	<b>28</b>	<b>100</b>	<b>425</b>	<b>525</b>	<b>21</b>

- \*Non -University Exam

### Fourth Semester

Course Code	Course Name	L	P	Marks			Credits
				Internal	External	Total	
-	Journal Club	1	-	25	-	25	1
-	Research Work	-	31	-	400	400	16
-	Discussion/Final Presentation	3	-	75	-	75	3
-	Co-curricular Activities	-	-	Satisfactory/Unsatisfactory			2*
<b>Total</b>		<b>4</b>	<b>31</b>	<b>100</b>	<b>400</b>	<b>500</b>	<b>22</b>

*\*Note: Required credit points 02 for satisfactory; Less than 02 credit points unsatisfactory*

**\*Credits not included towards calculation of CGPA**

### Semester Wise Credits Distribution

Semester	Credit Points
I	26
II	26
III	21
IV	20
Co-curricular Activities (Attending Conference, Scientific Presentations & Other Scholarly Activities)	02*
<b>Total Credit Points</b>	<b>93 + 2* = 95</b>

- \*Credit Points for Co-curricular Activities
- \*Credits not included towards calculation of CGPA
- \*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

## **Guidelines for Awarding Credit Points for Co-curricular Activities**

<b>Name of the Activity</b>	<b>Maximum Credit Points</b>
Participation in National Level Seminar/ Conference/ Workshop/ Symposium/ Training Programs (related to the specialization of the student) OR Academic Award/Research Award from State Level/National Agencies	02
Participation in International Level Seminar/ Conference/ Workshop/ Symposium / Training Programs (related to the specialization of the student) #	02
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

- #International Conference held even in India will be considered for award of Credit Points.
- \*Only those research / review publications will be considered which have been published during the tenure of M. Pharm. Course.
- \$ International Journal: The Editorial Board outside India.

## **Academic Work**

The department / teaching staff of respective courses shall maintain a regular record of attendance in Theory, Practical, Seminar, Assignment, Journal Club, and Discussion with the supervisor, Research work presentation and Dissertation.

## **Program Committee**

1. 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. A teacher at the cadre of Professor shall be the Chairperson
  - b. One Teacher from each M. Pharm. Specialization
  - c. Four student representatives (two from each academic year), nominated by the Head of the Institution
3. Duties of the Programme Committee:
  - a. Periodically review the progress of the classes.
  - b. Discuss the problems concerning curriculum, syllabus and the conduct of classes.
  - c. 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.

### **Sessional Exams**

- ❖ Two sessional exams shall be conducted for each theory/practical course
- ❖ The average marks of two sessional exams shall be computed for internal assessment
- ❖ Sessional exam shall be **conducted for 30 marks** for theory and shall be **computed for 15 marks**.
- ❖ Sessional exam for practical shall be **conducted for 40 marks** and shall be **computed for 30 marks**.

### **Question Paper Pattern for Theory Sessional Examinations**

Multiple Choice Questions (MCQs) <b>OR</b> Objective Type Questions (5 x 2) (Answer all the questions)	10 x 1 = 10 <b>OR</b> 05 x 2 = 10
Short Answers (Answer 2 out of 3)	2 x 5 = 10
Long Answers (Answer 1 out of 2)	1 x 10 = 10
<b>Total</b>	<b>30 Marks</b>

### **Question Paper Pattern for Practical Sessional Examinations**

Synopsis	10
Experiments	25
Viva voce	05
<b>Total</b>	<b>40 Marks</b>

### **Internal Assessment**

- ❖ The internal assessment will have two components i.e. **Continuous Mode** and **Sessional Exams**

1. Theory Courses having Internal of 25 Marks the scheme of internal award is:

- Sessional Exams: 15 Marks
- Continuous Mode: 10 Marks

#### **Continuous Mode Scheme**

<b>Criteria</b>	<b>Maximum Marks</b>
*Attendance (as per table given below)	08
Student – Teacher interaction	02
<b>Total</b>	<b>10</b>

2. Practical Courses having Internal of 50 Marks the scheme of internal award is:

- Sessional Exams: 30 Marks
- Continuous Mode: 20 Marks

#### **Continuous Mode Scheme**

<b>Criteria</b>	<b>Maximum Marks</b>
*Attendance (as per table given below)	10
Based on Practical Records, Regular viva voce, etc.	10
<b>Total</b>	<b>20</b>

#### **\*Guidelines for the Allotment of Marks for Attendance**

<b>Percentage of Attendance</b>	<b>Theory (Maximum Marks 08)</b>	<b>Practical (Maximum Marks 10)</b>
95 – 100	08	10
90 – 94	06	7.5
85 – 89	04	5
80 – 84	02	2.5
Less than 80	0	0