



**DEPARTMENT OF PHARMACY**  
Tripura University (A Central University)  
Suryamaninagar- 799022, West Tripura, INDIA

**SUBJECT DISTRIBUTION IN MASTER OF PHARMACY (M.PHARM) IN PHARMACEUTICAL CHEMISTRY**  
**IN CBCS SYSTEM**

**1<sup>ST</sup> SEMESTER**

| Course Code | Name of Subjects   |                            | Credits | Total Credits |
|-------------|--|----------------------------|---------|---------------|
| MPHA-901C   | Pharmaceutical Chemistry-I (Drug Design)                     | Departmental Core Subjects | 4       | 24            |
| MPHA-902C   | Pharmaceutical Analysis-I<br>(Basic Instrumentation Methods) |                            | 4       |               |
| MPHA-903C   | Pharmaceutical Chemistry-II<br>(Natural Products)            |                            | 4       |               |
| MPHA-904 C  | Pharmaceutical Chemistry - Practical                         |                            | 2       |               |
| MPHA-905 C  | Pharmaceutical Analysis -Practical                           |                            | 2       |               |
| MPHA-906 E  | Research Methodology for Biochemical Sciences                | Departmental Elective      | 2       |               |
| MPHA-908CF  | Computer Skill-II  | Core Foundation Course     | 4       |               |
| MPHA-907 E  | Optional Elective-I  | Outside the Department     | 2       |               |

**2<sup>ND</sup> SEMESTER**

| Course Code | Name of Subjects  |                            | Credits | Total Credits |
|-------------|---|----------------------------|---------|---------------|
| MPHA-1001C  | Pharmaceutical Analysis-II<br>(Advanced Instrumental Methods)             | Departmental Core Subjects | 4       | 20            |
| MPHA-1002C  | Pharmaceutical Chemistry-III<br>(Medicinal Chemistry)                     |                            | 4       |               |
| MPHA-1003C  | Pharmaceutical Chemistry-IV<br>(Principles of Organic Synthetic Planning) |                            | 4       |               |
| MPHA-1004 C | Instrumental Methods -Practical   |                            | 2       |               |
| MPHA-1005 C | Medicinal Chemistry -Practical  |                            | 2       |               |
| MPHA-1006 E | Review works/Summer Tanning for Project and Presentation                  | Departmental Elective      | 2       |               |
| MPHA-1007 E | Optional Elective-II  | Outside the Department     | 2       |               |

**3<sup>RD</sup> SEMESTER**

| Course Code  | Name of Subjects   |                            | Credits | Total Credits |
|--------------|--|----------------------------|---------|---------------|
| MPHA-1101C   | Dissertation works (Part –I)   | Departmental Core Subjects | 6       | 14            |
| MPHA-1102C   | Viva-Voce on Dissertation work Reports (Part –I)                                 |                            | 4       |               |
| MPHA-1103 E  | Seminar and Journal Club   | Departmental Elective      | 2       |               |
| MPHA-1104 EF | Online course/ MOOC / SWAYAM/ Distance Learning/English communication/Yoga, Etc. | Outside the Department     | 2       |               |

**4<sup>TH</sup> SEMESTER**

| Course Code  | Name of Subjects   |                            | Credits | Total Credits |
|--------------|--|----------------------------|---------|---------------|
| MPHA-1201C   | Dissertation works (Part –II)  | Departmental Core Subjects | 6       | 14            |
| MPHA-1202C   | Viva-Voce on Dissertation Report (Part –II)                                      |                            | 4       |               |
| MPHA-1203 E  | Seminar and Journal Club   | Departmental Elective      | 2       |               |
| MPHA-1204 EF | Online course/ MOOC / SWAYAM/ Distance Learning/English communication/Yoga, Etc. | Outside the Department     | 2       |               |

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

| Course Code | Course                                      | Credit Hours | Credit Points | Hrs./week | Marks |
|-------------|---|--------------|---------------|-----------|-------|
| Semester I  |   |              |               |           |       |
| MPC101T     | Modern Pharmaceutical Analytical Techniques | 4            | 4             | 4         | 100   |
| MPC1012T    | Advanced Organic Chemistry -I               | 4            | 4             | 4         | 100   |
| MPC103T     | Advanced Medicinal chemistry                | 4            | 4             | 4         | 100   |
| MPC104T     | Chemistry of Natural Products               | 4            | 4             | 4         | 100   |
| MPC105P     | Pharmaceutical Chemistry Practical I        | 12           | 6             | 12        | 150   |
| MPC106S     | Seminar/Assignment                          | 7            | 4             | 7         | 100   |
| Total       |   | 35           | 26            | 35        | 650   |
| Semester II |   |              |               |           |       |
| MPC201T     | Advanced Spectral Analysis                  | 4            | 4             | 4         | 100   |
| MPC202T     | Advanced Organic Chemistry -II              | 4            | 4             | 4         | 100   |
| MPC203T     | Computer Aided Drug Design                  | 4            | 4             | 4         | 100   |
| MPC204T     | Pharmaceutical Process Chemistry            | 4            | 4             | 4         | 100   |
| MPC205P     | Pharmaceutical Chemistry Practical II       | 12           | 6             | 12        | 150   |
| MPC206S     | Seminar/Assignment                          | 7            | 4             | 7         | 100   |
| Total       |   | 35           | 26            | 35        | 650   |

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             |
| MPC 302J    | Journal club   | 1            | 1             |
| MPC 303D    | Discussion / Presentation<br>(Proposal Presentation) | 2            | 2             |
| MPC304R     | 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 |
|-------------|-------------------------------|--------------|---------------|
| MPC 401J    | Journal Club                  | 1            | 1             |
| MPC 402R    | Research Work                 | 31           | 16            |
| MPC 403D    | Discussion/Final Presentation | 3            | 3             |
| Total       |                               | 35           | 20            |

Table – 14: Semester wise credits distribution

| Course Code         | Semester   | Credit Points              |
|---------------------|--|----------------------------|
|                     | I  | 26                         |
|                     | II   | 26                         |
|                     | III  | 21                         |
|                     | IV   | 20                         |
| MPC404C             | Co-curricular Activities<br>(Attending Conference, Scientific Presentations and<br>Other Scholarly Activities) | Minimum=02<br>Maximum=07*  |
| Total Credit Points |  | Minimum=95<br>Maximum=100* |

\*Credit Points for Co-curricular Activities