



**Dr. B.C. Roy College of Pharmacy And
Allied Health Sciences**

ODD SEMESTER AY-2022-2023

Part -II



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

2.5.1. Mechanism of internal assessment

ADDITIONAL INFORMATION

| Sl. No. | Document | Link to Document |
|---------|--------------------------------------|---|
| 1. | University syllabus | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.1_University_syllabus.pdf |
| 2. | University academic calendar | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.2_University_academic_calender.pdf |
| 3. | Organizational chart | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.3_organizational_chart.pdf |
| 4. | College academic calendar | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.4_college_academic_calender.pdf |
| 5. | College offline routine | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.5_college_offline_routine.pdf |
| 6. | Laboratory responsibility | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.6_laboratory_responsibility.pdf |
| 7. | Online routine | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.7_online_routine.pdf |
| 8. | Notice | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.8_notice.pdf |
| 9. | Attendance sheet | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.9_attendance_sheet.pdf |
| 10. | Online/offline QP sample | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.10_online_offline_QP_sample.pdf |
| 11. | Invigilation seat matrix | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.11_invigilation_seat_matrix.pdf |
| 12. | Sample assignment | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.12_sample_assignment.pdf |
| 13. | Sample internal answer sheet | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.13_sample_internal_answer_sheet.pdf |
| 14. | Tabulation sheet internal | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.14_tabulation_sheet_internal.pdf |
| 15. | Tabulation sheet university | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.14_tabulation_sheet_university.pdf |
| 16. | University portal marks uploading | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.15_university_portal_marks_uploading.pdf |
| 17. | Non university examination mechanism | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.16_non_university_examination_mechanism.pdf |
| 18. | University QP modulator | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.17_university_QP_modulator.pdf |
| 19. | Hardcopy file internal examination | https://www.bcrp.ac.in/NAAC/SSR/CRITERIA2/2.5/2.5.1/2.5.1.18_hardcopy_file_internal_examination.pdf |

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY
(Formerly West Bengal University of Technology)
B.PHARM Syllabus
(Effective from 2021-2022 Admission Session)

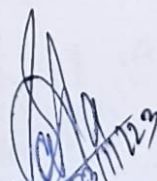
Curriculum Structure
Semester I

| Course Code | Name of the course | No. of hours | Tutorial | Full Marks | Credit points |
|-------------------|--|--------------|----------|------------|---------------|
| THEORY | | | | | |
| PT105 | Human Anatomy and Physiology I- Theory | 3 | 1 | 100 | 4 |
| PT101 | Pharmaceutical Analysis I – Theory | 3 | 1 | 100 | 4 |
| PT106 | Pharmaceutics I – Theory | 3 | 1 | 100 | 4 |
| PT103 | Pharmaceutical Inorganic Chemistry – Theory | 3 | 1 | 100 | 4 |
| PRACTICAL | | | | | |
| PT195 | Human Anatomy and Physiology- Practical | 4 | - | 100 | 2 |
| PT191 | Pharmaceutical Analysis I – Practical | 4 | - | 100 | 2 |
| PT196 | Pharmaceutics I – Practical | 4 | - | 100 | 2 |
| PT193 | Pharmaceutical Inorganic Chemistry – Practical | 4 | - | 100 | 2 |
| SESSIONAL* | | | | | |
| PTB184 & PTB185 | Remedial Biology – Theory & Remedial Biology – Practical | 2 + 2 | - | 50 + 50 | 2 + 1 |
| OR PTM183 | OR Remedial Mathematics – Theory | 2 | - | 100 | 3 |
| Total | | 36 | 4 | | 27 |

The students who have studied Mathematics / Physics / Chemistry at HSC will be appearing for Remedial Biology Theory & Practical.

The students who have studied Physics / Chemistry / Biology (Botany / Zoology) at HSC will be appearing for Remedial Mathematics course. * Non University Examination (NUE)





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Semester II

| Table-II: Course of study for semester II Course Code | Name of the course | No. of hours | Tutorial | Full Marks | Credit points |
|---|---|--------------|----------|------------|---------------|
| THEORY | | | | | |
| PT215 | Human Anatomy and Physiology II – Theory | 3 | 1 | 100 | 4 |
| PT213 | Pharmaceutica l Organic Chemistry I – Theory | 3 | 1 | 100 | 4 |
| PT214 | Biochemistry – Theory | 3 | 1 | 100 | 4 |
| PT216 | Pathophysiolo gy – Theory | 3 | 1 | 100 | 4 |
| PRACTICAL | | | | | |
| PT298 | Human Anatomy and Physiology II –Practical | 4 | - | 100 | 2 |
| PT296 | Pharmaceutica l Organic Chemistry I– Practical | 4 | - | 100 | 2 |
| PT297 | Biochemistry – Practical | 4 | - | 100 | 2 |
| SESSIONAL* | | | | | |
| HU282 | Environmenta l sciences – Theory | 3 | - | 100 | 3 |
| Total | | 34 | 4 | | 25 |

*Non university examination





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Semester III

| Course code | Name of the course | No. of Hours/ week | Tutorial/ week | Credit points |
|--------------|---|--------------------|----------------|---------------|
| PT 314 | Pharmaceutical Organic Chemistry II – Theory | 3 | 1 | 4 |
| PT 316 | Physical Pharmaceutics I – Theory | 3 | 1 | 4 |
| PT 319 | Pharmaceutical Microbiology Theory | 3 | 1 | 4 |
| PT 317 | Pharmaceutical Engineering Theory | 3 | 1 | 4 |
| Sessional | | | | |
| PT381 | Computer Applications In Pharmacy Theory | 3 | | 3 |
| PT382 | Computer Applications In Pharmacy Practical | 4 | | 2 |
| Practical | | | | |
| PT 394 | Pharmaceutical Organic Chemistry II – Practical | 4 | - | 2 |
| PT 396 | Physical Pharmaceutics I – Practical | 4 | - | 2 |
| PT 399 | Pharmaceutical Microbiology Practical | 4 | - | 2 |
| PT 397 | Pharmaceutical Engineering Practical | 4 | - | 2 |
| Total | | 35 | 4 | 29 |




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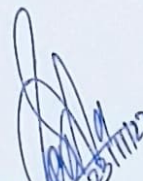
Semester IV

| Course code | Name of the course | No. of hours | Tutorial | Credit points |
|------------------|--|--------------|----------|---------------|
| PT 414 | Pharmaceutical Organic Chemistry III- Theory | 3 | 1 | 4 |
| PT413 | Medicinal Chemistry I – Theory | 3 | 1 | 4 |
| PT416 | Physical Pharmaceutics II – Theory | 3 | 1 | 4 |
| PT418 | Pharmacology I – Theory | 3 | 1 | 4 |
| PT412 | Pharmacognosy and Phytochemistry I- Theory | 3 | 1 | 4 |
| Sessional | | | | |
| HU 481 | Communication skills – Theory | 2 | | 2 |
| HU 482 | Communication skills – Practical | 2 | | 1 |
| Practical | | | | |
| PT493 | Medicinal Chemistry I – Practical | 4 | - | 2 |
| PT496 | Physical Pharmaceutics II – Practical | 4 | | 2 |
| PT498 | Pharmacology I – Practical | 4 | - | 2 |
| PT492 | Pharmacognosy and Phytochemistry I – Practical | 4 | - | 2 |
| Total | | 35 | 5 | 31 |

Semester V

| Course code | Name of the course | No. of hours | Tutorial | Credit points |
|------------------|---|--------------|----------|---------------|
| THEORY | | | | |
| PT513B | Medicinal Chemistry II – Theory | 3 | 1 | 4 |
| PT515 | Industrial Pharmacy I – Theory | 3 | 1 | 4 |
| PT518 | Pharmacology II – Theory | 3 | 1 | 4 |
| PT512 | Pharmacognosy and Phytochemistry II- Theory | 3 | 1 | 4 |
| PT516 | Pharmaceutical Jurisprudence - Theory | 3 | 1 | 4 |
| PRACTICAL | | | | |
| PT595 | Industrial Pharmacy I – Practical | 4 | - | 2 |
| PT598 | Pharmacology II – Practical | 4 | - | 2 |
| PT 592 | Pharmacognosy and Phytochemistry II – Practical | 4 | - | 2 |
| Total | | 27 | 5 | 26 |




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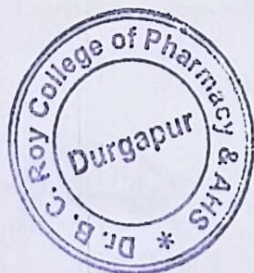
Semester VI

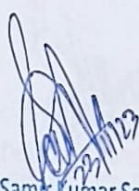
| Course code | Name of the course | No. of hours | Tutorial | Credit points |
|------------------|--|--------------|----------|---------------|
| THEORY | | | | |
| PT 613 | Medicinal Chemistry III – Theory | 3 | 1 | 4 |
| PT618 | Pharmacology III – Theory | 3 | 1 | 4 |
| PT612 | Herbal Drug Technology – Theory | 3 | 1 | 4 |
| PT 616 | Biopharmaceutics and Pharmacokinetics – Theory | 3 | 1 | 4 |
| PT-619 | Pharmaceutical Biotechnology – Theory | 3 | 1 | 4 |
| PT 611 | Quality Assurance –Theory | 3 | 1 | 4 |
| PRACTICAL | | | | |
| PT693 | Medicinal chemistry III – Practical | 4 | - | 2 |
| PT698 | Pharmacology III – Practical | 4 | - | 2 |
| PT692 | Herbal Drug Technology – Practical | 4 | - | 2 |
| Total | | 30 | 6 | 30 |

Semester VII

| Course code | Name of the course | No. of hours | Tutorial | Credit points |
|------------------|--|--------------|----------|---------------|
| THEORY | | | | |
| PT711 | Instrumental Methods of Analysis – Theory | 3 | 1 | 4 |
| PT716A | Industrial Pharmacy II – Theory | 3 | 1 | 4 |
| PT718 | Pharmacy Practice – Theory | 3 | 1 | 4 |
| PT716B | Novel Drug Delivery System – Theory | 3 | 1 | 4 |
| PRACTICAL | | | | |
| PT791 | Instrumental Methods of Analysis – Practical | 4 | - | 2 |
| SESSIONAL | | | | |
| PT- 781 | Practice School* | 12 | - | 6 |
| Total | | 28 | 4 | 24 |

* Non University Examination (NUE)




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Semester VIII

| Course code | Name of the course | No. of hours | Tutorial | Credit points |
|------------------|--|--------------|----------|---------------|
| THEORY | | | | |
| PT 817 | Biostatistics and Research Methodology | 3 | 1 | 4 |
| PT818 | Social and Preventive Pharmacy | 3 | 1 | 4 |
| PT810A | Pharma Marketing Management(Elective)* | 3×2=6 | 1×2=2 | 4×2=8 |
| PT810B | Computer Aided Drug Design(Elective)* | | | |
| PT810C | Advanced Instrumentation Techniques(Elective)* | | | |
| PT810D | Life Science Skill Development * | | | |
| SESSIONAL | | | | |
| PT 883 | Project Work | 12 | - | 6 |
| Total | | 24 | 4 | 22 |

* A student has to opt any two(2) electives

Table-IX: Semester wise credits distribution

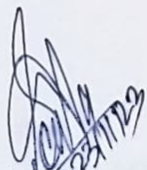
| Semester | Credit Points |
|--|---------------|
| I | 27 |
| II | 25 |
| III | 29 |
| IV | 31 |
| V | 26 |
| VI | 30 |
| VII | 24 |
| VIII | 22 |
| Extracurricular/ Co curricular activities | 01* |
| Total credit points for the program | 215 |

- * 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.
- * This (Extracurricular/ Co curricular activities) credit point will be awarded to the student who will qualify the MAR(Mandatory Additional Requirement).
- * To obtain B.Pharm degree with honours minimum of additional 8 credits has to be earned in minimum three subjects from MOOCs Platform as recognized by MAKAUT, WB.

Note: For Lateral Entry Students

- * Lateral Entry students will carry 52credits from D.Pharm as per norms of PCI.




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NOTES:

1. Academic (Program) Committee

The B. Pharm. program shall have an Academic (Program) Committee constituted by the Head of the institution.

2. Project work

All the students shall undertake a project under the supervision of a teacher and submit a report. The area of the project shall be decided by the supervisor in consultation with the student. The project may be carried out in group not exceeding 3 in number.

The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s).

3. Industrial training (Desirable)


Every candidate shall be required to work for at least 150 hours spread over four weeks in a Pharmaceutical Industry/Hospital. It includes Production unit, Quality Control department, Quality Assurance department, Analytical laboratory, Chemical manufacturing unit, Pharmaceutical R&D, Hospital (Clinical Pharmacy), Clinical Research Organization, Community Pharmacy, etc. After the Semester – VI and before the commencement of Semester – VII, and shall submit satisfactory report of such work and certificate duly signed by the authority of training organization to the head of the institute.

4. Practice School

In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school declared by the academic (program) committee from time to time.

At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages). Along with the exams of semester VII, the report submitted by the student. The knowledge and skills acquired by the student through practice school shall be evaluated by the subject experts at college level and grade point shall be awarded.





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M. PHARM SYLLABUS

PHARMACEUTICS

| Course Code | Course | Credit Hours | Credit Points | Hrs/w k | Marks |
|--------------------|--|--------------|---------------|-----------|------------|
| SEMESTER I | | | | | |
| MPT1061 | Modern Pharmaceutical Analytical Techniques | 4 | 4 | 4 | 100 |
| MPT1062 | Drug Delivery System | 4 | 4 | 4 | 100 |
| MPT 1063 | Modern Pharmaceutics | 4 | 4 | 4 | 100 |
| MPT 1064 | Regulatory Affair | 4 | 4 | 4 | 100 |
| MPT 1965 | Pharmaceutics Practical I | 12 | 6 | 12 | 200 |
| MPT 1986 | Seminar/Assignment | 7 | 4 | 7 | 100 |
| Total | | 35 | 26 | 35 | 700 |
| SEMESTER II | | | | | |
| MPT 2061 | Molecular Pharmaceutics (Nano Tech and Targeted DDS) | 4 | 4 | 4 | 100 |
| MPT2062 | Advanced Biopharmaceutics & Pharmacokinetics | 4 | 4 | 4 | 100 |
| MPT 2063 | Computer Aided Drug Delivery System | 4 | 4 | 4 | 100 |
| MPT 2064 | Cosmetic and Cosmeceuticals | 4 | 4 | 4 | 100 |
| MPT 2065 | Pharmaceutics Practical II | 12 | 6 | 12 | 200 |
| MPT 2986 | Seminar/Assignment | 7 | 4 | 7 | 100 |
| Total | | 35 | 26 | 35 | 700 |

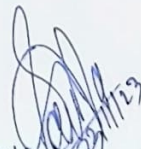



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PHARMACOLOGY

| Course Code | Course | Credit Hours | Credit Points | Hrs/wk | Marks |
|--------------|--|--------------|---------------|-----------|------------|
| Semester I | | | | | |
| MPT 1081 | Modern Pharmaceutical Analytical Techniques | 4 | 4 | 4 | 100 |
| MPT 1082 | Advanced Pharmacology-I | 4 | 4 | 4 | 100 |
| MPT 1083 | Pharmacological and Toxicological Screening Methods-I | 4 | 4 | 4 | 100 |
| MPT 1084 | Cellular and Molecular Pharmacology | 4 | 4 | 4 | 100 |
| MPT 1985 | Pharmacology Practical I | 12 | 6 | 12 | 200 |
| MPT 1986 | Seminar/Assignment | 7 | 4 | 7 | 100 |
| Total | | 35 | 26 | 35 | 700 |
| Semester II | | | | | |
| MPT 2081 | Advanced Pharmacology II | 4 | 4 | 4 | 100 |
| MPT 1082 | Pharmacological and Toxicological Screening Methods-II | 4 | 4 | 4 | 100 |
| MPT 2083 | Principles of Drug Discovery | 4 | 4 | 4 | 100 |
| MPT 2084 | Experimental Pharmacology practical- II | 4 | 4 | 4 | 100 |
| MPT 2985 | Pharmacology Practical II | 12 | 6 | 12 | 200 |
| MPT 2986- | Seminar/Assignment | 7 | 4 | 7 | 100 |
| Total | | 35 | 26 | 35 | 700 |





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MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
 Syllabus of M. PHARM Industrial Pharmacy
 Effective from academic session 21-22

Curriculum structure

| Course Code | Course | Credit Hours | Credit Points | Hrs./w k | Marks |
|--------------------|--|--------------|---------------|-----------|------------|
| SEMESTER I | | | | | |
| MIP101 | Modern Pharmaceutical Analytical Techniques | 4 | 4 | 4 | 100 |
| MIP 102 | Pharmaceutical Formulation Development | 4 | 4 | 4 | 100 |
| MIP 103 | Novel drug delivery systems | 4 | 4 | 4 | 100 |
| MIP 104 | Intellectual Property Rights | 4 | 4 | 4 | 100 |
| MIP191 | Industrial Pharmacy Practical I | 12 | 6 | 12 | 150 |
| MIP 181 | Seminar/Assignment | 7 | 4 | 7 | 100 |
| Total | | 35 | 26 | 35 | 650 |
| SEMESTER II | | | | | |
| MIP201 | Advanced Biopharmaceutics and Pharmacokinetics | 4 | 4 | 4 | 100 |
| MIP202 | Scale up and Technology Transfer | 4 | 4 | 4 | 100 |
| MIP203 | Pharmaceutical Production Technology | 4 | 4 | 4 | 100 |
| MIP204 | Entrepreneurship Management | 4 | 4 | 4 | 100 |
| MIP291 | Industrial Pharmacy Practical II | 12 | 6 | 12 | 150 |
| MIP 281 | Seminar/Assignment | 7 | 4 | 7 | 100 |
| Total | | 35 | 26 | 35 | 650 |




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M. PHARM SYLLABUS


PHARMACEUTICAL ANALYSIS

Common for all specialisations

Course of study for M. Pharm. (Pharmaceutical Analysis)

| Course Code | Course | Credit Hours | Credit Points | Hrs./wk | Marks |
|-------------|---|--------------|---------------|---------|-------|
| Semester I | | | | | |
| MPT1011 | Modern Pharmaceutical Analytical Techniques | 4 | 4 | 4 | 100 |
| MPT1012 | Advanced Pharmaceutical Analysis | 4 | 4 | 4 | 100 |
| MPT1013 | Pharmaceutical Validation | 4 | 4 | 4 | 100 |
| MPT1014 | Food Analysis | 4 | 4 | 4 | 100 |
| MPT1915 | Pharmaceutical Analysis Practical - I | 12 | 6 | 12 | 200 |
| MPT1916 | Seminar/Assignment | 7 | 4 | 7 | 100 |
| | Total | 35 | 26 | 35 | 700 |
| Semester II | | | | | |
| MPT2011 | Advanced Instrumental Analysis | 4 | 4 | 4 | 100 |
| MPT2012 | Modern Bio-Analytical Techniques | 4 | 4 | 4 | 100 |
| MPT2013 | Quality Control and Quality Assurance | 4 | 4 | 4 | 100 |
| MPT2014 | Herbal and Cosmetic Analysis | 4 | 4 | 4 | 100 |
| MPT2915 | Pharmaceutical Analysis Practical - II | 12 | 6 | 12 | 200 |
| MPT2916 | Seminar/Assignment | 7 | 4 | 7 | 100 |
| | Total | 35 | 26 | 35 | 700 |




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(valid from 2018-2019)

Course of study for M. Pharm. III Semester

Common for all specialisations

| Sr.No. | Course Code | Course | Contact Hours | | Full Marks | Credit Points |
|-------------------|-------------|--|---------------|---------|------------|---------------|
| | | | L | Project | | |
| 3 | MPT-391 | Discussion / Presentation (Proposal) | | 2 | 100 | 2 |
| 4 | MPT-392 | Research Work | | 28 | 100 | 14 |
| SESSIONAL* | | | | | | |
| 1. | MPT-384 | Research Methodology and Biostatistics* | 4 | | 100 | 4 |
| 2 | MPT-381 | Journal club | | 1 | 100 | 1 |
| | Total | | 4 | 31 | | 21 |

***Non University Exam**



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Syllabus of M. Pharm. IV Semester

(Effective for 2018-2019 Admission Session)

Course of study for M. Pharm. IV Semester

(Common for All Specializations)

| Sr. No. | Course Code | Course Name | Contact Hours | | | Full Marks | Credit points |
|-----------|-------------|---|---------------|---|----|------------|---------------|
| | | | L | T | P | | |
| 1 | MPT-491 | Discussion/Final Presentation | | | 3 | 100 | 3 |
| 2 | MPT-492 | Research Work | | | 31 | 100 | 16 |
| Sessional | | | | | | | |
| 3 | MPT-481 | Journal Club | | | 1 | 100 | 1 |
| 4 | MPT-482 | Co-curricular Activities Participation in National Level seminar/Conference/Workshop/Symposium/Training Programs (related to the specialization of the student). Participation in International Level seminar/Conference/Workshop/Symposium/Training Programs (related to the specialization of the student). Academic Award/research Award from State Level/National Agencies. Academic Award/research Award from International Agencies. Research/Review Publication in National Journals (Indexed in Scopus/Web of Science). Research/Review Publication in International Journals (Indexed in Scopus/Web of Science). | | | | | 3 |
| Total | | | 35 | | | | 23 |



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Syllabus of M. Pharm. IV Semester

(Effective for 2018-2019 Admission Session)

| SEMESTER | Credit Points |
|--------------|---------------|
| I | 26 |
| II | 26 |
| III | 21 |
| IV | 23 |
| Total | 96 |


**Guidelines for Awarding Credit Points for Co-curricular Activities
(One 1 Credit & One 2 Credit Course to be chosen)**

| Name of the Activity | 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




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