



Programme Specifications

M.Pharm. Programme

Programme: Pharmaceutics

Department: Pharmaceutics

Faculty of Pharmacy

M.S. Ramaiah University of Applied Sciences

University House, New BEL Road, MSR Nagar, Bangalore – 560 054 www.msruas.ac.in

PROGRAMME SPECIFICATIONS: PHARMACEUTICS

| Faculty | Faculty of Pharmacy (FPH) |
|-----------------|-----------------------------|
| Department | Department of Pharmaceutics |
| Programme | M.Pharm. in Pharmaceutics |
| Dean of Faculty | Dr. V. Madhavan |
| HOD | Dr. S. Bharath |

| | Dean of Faculty | Dr. V. Madhavan |
|-----|----------------------|---|
| | HOD | Dr. S. Bharath |
| 1. | Title of the Award | |
| | M. Pharm. | in Pharmaceutics |
| 2. | Modes of Study | |
| | Full-Time | Part-Time |
| 3. | Awarding Institut | ion /Body |
| | M.S.Rama | iah University of Applied Sciences – Bangalore, India |
| 4. | Joint Award | |
| | | |
| 5. | Teaching Institution | on |
| | Faculty of | Pharmacy (FPH) |
| | M.S.Rama | iah University of Applied Sciences – Bangalore, India |
| 6. | Month of Creation | n of Programme Specifications |
| | February 2 | 2017 |
| 7. | Programme Appro | oval Month by the Academic Council of MSRUAS |
| | April 2017 | |
| 8. | Next Review | |
| | March 201 | 9 |
| 9. | Programme Appro | oving Regulatory Bodies and Date of Approval |
| | Pharmacy | Council of India (PCI), New Delhi |
| 10. | Programme Accre | diting Body and Date of Accreditation |
| | | |
| 11. | Grade Awarded b | y the Accreditation Body |

12. Programme Accreditation Validity

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13. Programme Benchmark

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14. Rationale for the Programme

There are many drug moieties with pharmacological properties, but needs special measures to achieve desired therapeutic activity at the site of action. Pharmaceutics is the science of dosage form design that converts drugs and plant based intermediates into medication to be used safely and effectively by patients. The Indian pharmaceutical industry currently tops the chart amongst India's science-based industries with wide ranging capabilities in the complex field of drug manufacture. The new drug launches, new drug filings, and Phase II clinic trials throughout the year create the thrust for competitive and qualified Postgraduates in Pharmaceutics. Taking into consideration the excellent opportunities available in the field of pharmaceutics, post graduate course in M. Pharm. in Pharmaceutics is being offered.

The M.S. Ramaiah College of Pharmacy, now a constituent of MSRUAS as Faculty of Pharmacy has been in existence for more than two decades. Over the years, Faculty of Pharmacy of MSRUAS has grown and evolved as one of the Premier Institutions in the country. The University infrastructure, interdisciplinary facilities with latest technologies will empower the students to pursue high quality research with creativity and innovation. During the last two decades, the institution has produced over 1000 graduates and 120 Post graduates. The presence of other Faculties of Applied Sciences of the University will facilitate the students to experience more than the conventional curriculum.

Faculty of Pharmacy of MSRUAS offering M. Pharm programme in Pharmaceutics featured with semester pattern curriculum is aimed to emphasize the concepts in the design of advanced novel pharmaceutical dosage forms. Importance will be given to research projects based on industrial needs and in terms of novelty for patenting the application. The curriculum is structured to impart the students to take independent professional responsibilities and acquire necessary skills to compete with their global counterparts.

15. Programme Aim

Masters degree programme in Pharmaceutics is aimed to achieve the Postgraduates an advanced knowledge both in theoretical and applied topics; high order skills in analysis, critical evaluation and professional application; think differently and independently to solve complex problems related to research and pharmaceutical processes.

16. Programme Objectives

The objectives of the programme are:

- 1. To educate the students extensively and efficiently with strong theoretical and practical knowledge
- 2. To train the students in terms of rational and critical analysis and troubleshooting the problems effectively
- 3. To create research interest in the minds of students so that they take up research as a career with passion
- 4. To provide a general perspective and opportunities for a career in Pharmaceutics
- 5. To mould the students for a lifelong learning skills and make them work as a team to achieve the goal

17. Intended Learning Outcomes of the Programme

The intended learning outcomes are listed under four headings:

- 1. Knowledge and Understanding,
- 2. Cognitive Skills
- 3. Practical Skills

4. Capability/ Transferable Skills.

17.1 Knowledge and Understanding

After undergoing this programme, a student will be able to:

KU1: Discuss various preformulation studies for a new drug entity

KU2: Distinguish concept of various dosage forms

KU3: Explain novel approaches in drug delivery systems

KU4: Interpret the fate of a drug in the biological system

17.2 Cognitive Skills

After undergoing this programme, a student will be able to:

CS1: Design and optimize new experiments

CS2: Discover a new drug delivery system

CS3: Develop the process for dosage form development

CS4: Design a protocol for validation of a dosage form

17.3 Practical Skills

After undergoing this programme, a student will be able to:

PS1: Formulate and evaluate different types of dosage forms

PS2: Use appropriate equipments for pharmaceutical processes

PS3: Validate the stability of various dosage forms

PS4: Predict the shelf life of the formulation with stability studies reports

17.4 Capability/Transferable Skills

After undergoing the programme, a student will be able to:

TS1: Develop technical report after analysis of data and the process or procedure

TS2: Perform under constraints to meet the given targets

TS3: Work as a team and team leader to enhance the productivity of the group and the organization

TS4: Communicate the concepts, ideas and viewpoints through effective oral and written communication skills

18. Programme Structure

The following are the courses a student is required to successfully complete for the award of the degree. The course is delivered as per the Time-Table for every batch.

| | SEME | STER – I | | |
|------------------|---|---------------------|---------|----------------|
| Course Code | Course | S | Credits | Hours/ Week |
| | DEPARTMENT COMI | MON COURSE | | |
| MPH101T | 1.Modern Pharmaceutical An | alytical Techniques | 4 | 4 |
| | PROGRAMME SPECIALIZA | ATION COURSES | | |
| MPH102T | 1.Drug Delivery Systems | | 4 | 4 |
| MPH103T | 2.Modern Pharmaceutics | | 4 | 4 |
| MPH104T | 3.Regulatory Affairs | | 4 | 4 |
| MPH105P | 4.Pharmaceutics Practical - I | | 6 | 12 |
| MPH106 | 5.Seminar/Assignment | | 4 | 7 |
| | | Total | 26 | 35 |
| | | STER – II | Г | |
| | PROGRAMME SPECIA | | | |
| MPH201T | 1.Molecular Pharmaceutics (N Targeted DDS) | | 4 | 4 |
| MPH202T | 2. Advanced Biopharmaceutic | | 4 | 4 |
| MPH203T | 3. Computer Aided Drug Deliv | | 4 | 4 |
| MPH204T | 4. Cosmetic and Cosmeceutic | | 4 | 4 |
| MPH205P | 5. Pharmaceutics Practical - II | | 6 | 12 |
| MPH206 | 6. Seminar/Assignment | | 4 | 7 |
| | | Total | 26 | 35 |
| | | STER – III | | |
| | FACULTY COMMON SI | | | |
| MRM301T | 1. Research Methodology and | Biostatistics | 4 | 4 |
| MPJ302 | 2. Journal Club | | 1 | 1 |
| MMC301 MPR301 | 3. Group Project | station /Droposal | 2 | 2 |
| IVIPRSUI | 4. Discussion/Synopsis Preser Presentation) | itation (Proposai | 2 | 2 |
| MPR302 | 5. Research Work | | 14 | 28 |
| WIFICOU | J. Research Work | Total | 25 | 35 |
| | SEMES | TER – IV | 23 | |
| | | | | |
| MPJ402 | PROGRAMME SPECIAL 1. Journal Club | IZATION COUKSES | 1 | 1 |
| MPR403 | 2. Research Work | | 16 | 31 |
| MPR404 | 3. Discussion/Interim-Final Pr | esentation | 3 | 3 |
| 1411-17-10-4 | 3. Discussion/internit-findi Fi | Total | 20 | 3 35 |
| | MANDATORY COURS | | 20 | |
| MMC501 | 1. Participation/Presentation | in research forum: | | - |
| | National/International Sen | | | |
| | Conferences, Workshops | | 1-3 | |
| MMC502 | 2. Publication : National/Inter | rnational Journals | | - |
| MMC503 | 3. Academic/Research award | : | | - |
| | State/National/Internation | al Agencies | | |
| ı | | Minimum | 98 | |
| | Grand Total | Maximum | 100 | |

19. Programme Delivery Structure- Full-Time

The programme is delivered from Monday to Saturday of the week.

Normally from 9 AM to 1PM and 2 PM to 5 PM from Monday to Friday and 9AM to 1PM on Saturday

20. Teaching and Learning Methods

The programme delivery comprises of :

- 1. Face to Face Lectures using Audio-Visuals
- 2. Group Discussions, Presentations
- 3. Demonstrations
- 4. Guest Lectures
- 5. Laboratory/Field work/Workshops
- 6. Industry Visit
- 7. Seminars
- 8. Project Exhibitions
- 9. Case studies
- 10. Concept mapping

21. Mandatory Courses

Mandatory course/s can be any one or more of the following –

MMC501 Participation/Presentation in Research Forum

A student can participate /submit a paper and make a presentation in a conference, seminar, workshop, trainining programme or symposium related to the programme specialization which is approved by the department.

MMC502 Publication in National/International Journal (Referred & Abstracted)

A student can publish a review or research paper in a reputed scientific journal. The proof of submission and a copy of the paper shall be submitted to the department.

MMC503 Academic/Research award from State/National/International Agencies

A student with extraordinary accomplishment can participate and get academic excellence/research excellence awards from conferences/competitions/recognized affiliated bodies and agencies.

MMC301 Group Project

A group project shall have up to 5 interdepartmental students within the faculty. The purpose of group project is that the group should be able to design/develop/evaluate a drug moiety, dosage form, product, data or process in their area of specializations. The students are required to develop a report for assessment and also need to demonstrate the final outcome. The IPR rights of all such work lies with the University only. The students are required to sign an agreement before the commencement of the project. The project should be approved by a committee of examiners before the start of the project. Students can choose a project from the database of projects available with the concerned department. The detailed procedure and evaluation procedure is available in the Operation Manual / I - portal.

22. MPH106 Seminar/ Assignment

& MPH206 **Assignment:** Every candidate shall submit a word processed assignment for individual theory courses in their first and second semester specialization.

Seminar: Every candidate shall present on the submitted assignment topic for individual theory courses in their first and second semester specialization.

The detailed procedure and evaluation procedure is available in the Operation Manual /I- portal.

23. MPJ302 & MPJ402

Journal Club

Every student shall critically appraise the research article of their specialization published in reputed journals. Students are trained for inquiry based learning and critical thinking skills. Students shall access journals adopting search engines and made to collect relevant data, analyze and comment on the findings with the submission of the document evidence and present on the same for assessment. The detailed procedure and evaluation procedure is available in the Operation Manual/I-portal.

24. MPR302 & MPR403

Dissertation/Research Work

Every candidate shall carry out work on an assigned research project under the guidance of a recognized Postgraduate teacher in the third and fourth semester, the result of which shall be written up and submitted in the form of a dissertation.

Work for writing the dissertation is aimed at contributing to the development of a spirit of enquiry, besides exposing the candidate to the techniques of research, critical analysis, acquaintance with the latest advances in medical science and the manner of identifying and consulting available literature.

The dissertation shall be examined by a minimum of two examiners; one internal (Mentor) and one external examiner (outside the University).

25. Assessment and Grading

SEMESTER - I

| Course code | Course | Int | sessmer | Semester End Examination | | Total Marks | | |
|----------------|---|--------------------|---------|--------------------------------|-------|----------------|-------|-----|
| | | ious | | ional nation | Total | S | Marks | |
| | | Continuous Mode | Marks | Duration | | Marl | | |
| MPH 101T | Modern Pharmaceutical Analytical Techniques | 10 | 15 | 1h. | 25 | 75 | 3h. | 100 |
| MPH 102T | Drug Delivery Systems | 10 | 15 | 1h. | 25 | 75 | 3h. | 100 |
| MPH 103T | Morden Pharmaceutics | 10 | 15 | 1h. | 25 | 75 | 3h. | 100 |
| MPH 104T | Regulatory Affairs | 10 | 15 | 1h. | 25 | 75 | 3h. | 100 |
| MPH 105P | Pharmaceutics Practical I | 20 | 30 | 6h. | 50 | 100 | 6h. | 150 |
| MPH 106 | Seminar/ Assignment | - | - | - | - | - | - | 100 |
| | | | • | 1 | | ' | Total | 650 |

SEMESTER - II

| Course | Course | Internal Assessment | | | Semester End Examination | | Total Marks | |
|-------------|---|---------------------|-------|-------------------|--------------------------------|-------|----------------|-----|
| | | sno | | sional ination | Total | S | on | |
| | | Continuous | Marks | Duration | | Marks | Duration | |
| MPH 201T | Molecular Pharmaceutics (NanoTech and Targeted DDS) | 10 | 15 | 1h. | 25 | 75 | 3h. | 100 |
| MPH 202T | Advanced Biopharmaceutics & Pharmacokinetics | 10 | 15 | 1h. | 25 | 75 | 3h. | 100 |
| MPH 203T | Computer Aided Drug Delivery System | 10 | 15 | 1h. | 25 | 75 | 3h. | 100 |
| MPH 204T | Cosmetics and Cosmeceuticals | 10 | 15 | 1h. | 25 | 75 | 3h. | 100 |
| MPH 205P | Pharmaceutics Practical II | 20 | 30 | 6h. | 50 | 100 | 6h. | 150 |
| MPH 206 | Seminar/ Assignment | - | - | - | - | - | - | 100 |
| | 1 | ı | ı | ı | | ı | Total | 650 |

SEMESTER - III

| Course code | Course | Internal Assessment | | | | E | nester ind ination | Total Marks | | |
|----------------|--|---------------------|-------|-------------------|-------|-------|--------------------------|----------------|----|--|
| | | Mode | | sional ination | Total | Total | Total | S | uc | |
| | | Continuous Mode | Marks | Duration | | Marks | Duration | | | |
| MRM 301T | Research Methodology and Biostatistics | 10 | 15 | 1h. | 25 | 75 | 3h. | 100 | | |
| MPJ 302 | Journal Club | - | - | 1 | 25 | 1 | • | 25 | | |
| MPR 301 | Discussion / Synopsis Presentation (Proposal Presentation) | - | - | - | 50 | - | - | 50 | | |
| MPR 302 | Research Work | - | - | - | - | 350 | 1h. | 350 | | |
| | | | | | | | Total | 525 | | |

SEMESTER - IV

| Course | Course | Internal Assessment | | | E | nester ind ination | Total Marks | |
|------------|---|---------------------|-------|-------------------|-------|--------------------------|----------------|-----|
| | | sno | Exam | sional ination | Total | s | uo | |
| | | Continuous | Marks | Duration | | Marks | Duration | |
| MPJ 402 | Journal Club | - | - | - | 25 | - | - | 25 |
| MPR 403 | Research Work | - | - | - | - | 400 | - | 400 |
| MPR 404 | Discussion/Interim- Final Presentation | - | - | - | 75 | - | 1h. | 75 |
| | | | | | | | Total | 500 |

Theory: 100 Marks

(Component -1: 25 Marks + Component-2: 75 Marks)

Component - 1: 25 Marks

It has two sub-components (Part A & B)

Part – A: Continuous Evaluation: 10 Marks

The marks allocated for Continuous mode of internal assessment shall be awarded as per the scheme given below:

Scheme for awarding Continuous Evaluation - Theory

| Criteria | Maximum marks |
|---------------------------------|---------------|
| Attendance * | 8 |
| Student –Teacher Interaction ** | 2 |
| Total | 10 |

Guidelines for allotment of marks for attendance*

| Percentage of Attendance | Theory |
|--------------------------|--------|
| 95-100 | 8 |
| 90-94 | 6 |
| 85-89 | 4 |
| 80-84 | 2 |
| Less than 80 | 0 |

^{**} student will be continuously assessed during theory and practical sessions

Part – B: Sessional Examination: 15 Marks

Two sessional examinations (each for 15 Marks with one hour duration) will be conducted.

Average marks of the two sessionals will be computed for sessional examination marks

Component -2 Semester End Theory Examination: 75 Marks

Theory Examination: A theory exam shall be conducted for maximum marks 75 Marks with three hours of duration

Practical: 150 Marks

(Component - 1:50 Marks + Component - 2:100 Marks)

Component - 1: 50 Marks

It has two sub-components (Part A & B)

Part - A: Continuous Evaluation: 20 Marks

The marks allocated for Continuous mode of internal assessment shall be awarded as per the scheme given below:

Scheme for awarding Continuous Evaluation - Practical

| Criteria | Maximum marks |
|--------------------------------------|---------------|
| Attendance * | 10 |
| Practical Records, Regular viva-voce | 10 |
| Total | 20 |

Guidelines for allotment of marks for attendance*

| Percentage of Attendance | Practical |
|--------------------------|-----------|
| 95-100 | 10 |
| 90-94 | 7.5 |
| 85-89 | 5 |
| 80-84 | 2.5 |
| Less than 80 | 0 |

Part - B: Sessional Examination: 30 Marks

Two sessional examinations (each for 30 Marks with six hour duration) will be conducted.

Average marks of the two sessionals will be computed for sessional examination marks.

Component -2 Semester End Practical Examination: 100 Marks

Practical Examination: 100 Marks with six hours of duration. Practical examination shall also consist of a viva –voce (Oral) examination.

The assessment questions are set to test the learning outcomes. In each component a certain learning outcome is assessed.

Note: For more details on the break-ups, please refer to the Course Specifications

A student is required to score an overall 50% for successful completion of a course and earn the credits.

Note: Final marks awarded in each of the courses will be confirmed only after SAB/PAB as explained in Academic Regulations of M. Pharm. Programme.

Assignment & Seminar

The detailed procedure and evaluation procedure is available in the Operation Manual /

Student Handbook/Academic Regulations.

Journal Club

The detailed procedure and evaluation procedure is available in the Operation Manual / Student Handbook/Academic Regulations.

Group Project

The detailed procedure and evaluation procedure is available in the Operation Manual / Student Handbook/Academic Regulations.

Mandatory Courses

The credit points assigned for extracurricular and/or co-curricular activities shall be given by the Dean of the Faculty and the same shall be submitted to the University.

| Name of the activity | Maximum credit points Eligible/Activity |
|---|--|
| Participation in National Level | 01 |
| Seminar/Conference/Workshop/Symposium/ Training | 0.1 |
| Participation in International Level outside India | |
| Seminar/Conference/Workshop/Symposium/ Training | 02 |
| Programs (related to the specialization of the student) | |
| Academic Award/Research Award from State | 01 |
| Level/National Agencies | 01 |
| Academic Award/Research Award from International | 02 |
| Agencies | 02 |
| Research / Review Publication in National Journals | |
| (Indexed in Scopus / Web of Science) | 01 |
| Research / Review Publication in International Journals | 02 |
| (Indexed in Scopus / Web of Science) | 02 |

Dissertation/Research Work

- 1. Every candidate shall carry out work on an assigned research project under the guidance of a recognized Postgraduate Teacher, the result of which shall be written up and submitted in the form of a dissertation.
- 2. Work for writing the Dissertation is aimed at contributing to the development of spirit of enquiry, besides exposing the candidate to the techniques of research, critical analysis, acquaintance with the latest advances in pharmaceutical/medical sciences and the manner of identifying and consulting available literature. Dissertation shall be submitted as per the notified time schedule mentioned in the Academic calender / student hand book.

3. The Dissertation and viva-voce shall be evaluated by two examiners, one Internal and one External examiner appointed by the University.

Scheme of 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

Scheme of Evaluation of Presentation:

Presentation of work : 100 Marks
Communication skills : 50 Marks
Question and answer skills : 100 Marks

Total: 250 Marks

A student is required to score a minimum of 50% overall for successful completion of Dissertation and earn the corresponding credits.

Supplementary/Re-registration examination and improvement of sessional marks

The eligibility criteria and procedures for supplementary examination and improvement of sessional marks are as per the Pharmacy Council of India (PCI) norms and as indicated in the Academic Regulations governing this programme.

26. Attendance

A student is required to have a minimum of 85% attendance to be eligible to appear for the examination. Any condoning is as per the Academic regulations of M. Pharm. programme.

27. Award of Class

As per the Academic Regulations for M. Pharm. Programme

28. Student Support for Learning

Students are given the following support:

- 1. Course Notes
- 2. Reference Books in the Library
- 3. Magazines and Journals
- 4. Internet Facility
- 5. Computing Facility
- 6. Laboratory Facility
- 7. Workshop Facility
- 8. Staff Support
- 9. Lounges for Discussions
- 10. Any other support that enhances their learning

29. Quality Control Measures

The following are the Quality Control Measures:

- 1. Review of Course Notes
- 2. Review of Question Papers and Assignment
- 3. Student Feedback
- 4. Moderation of Assessed work
- 5. Opportunities for the students to see their assessed work
- 6. Review by External Examiners and External Examiners Reports
- 7. Staff Student Consultative Committee Meetings
- 8. Student Exit Feedback
- 9. Subject Assessment Board
- 10. Programme Assessment Board

30. Curriculum Map

| Course Code | Intended Learning Outcomes | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|-----------------------------|---|---|---|--|---|---|---|------------------|---|---|---|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | Cognitive (Thinking) | | | | | | | | | | | | | | | | | | | |
| | Knowledge and Understanding | | | | Skills Critical, Analytical, Problem solving, Innovation | | | | Practical Skills | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | KU1 | KU2 | KU3 | KU4 | CS1 | CS2 | CS3 | CS4 | PS1 | PS2 | PS3 | PS4 |
| | | | | | | | | | | | | | MPH101T | х | | | | Х | | | | | | |
| | MPH102T | | Х | Х | Х | Х | Х | | | Х | | | | | | | | | | | | | | |
| MPH103T | Х | Х | | | Х | | | Х | | | | | | | | | | | | | | | | |
| MPH104T | | Х | | | Х | | Х | Х | | | Х | Х | | | | | | | | | | | | |
| MPH105P | Х | | | | Х | | Х | Х | | Х | Х | Х | | | | | | | | | | | | |
| MPH106 | | | | | | | | | Х | Х | | | | | | | | | | | | | | |
| MPH201T | Х | | | | | | | | | | | | | | | | | | | | | | | |
| MPH202T | | | | Х | Х | | Х | | | Х | Х | Х | | | | | | | | | | | | |
| MPH203T | | | | Х | | | | | | | | | | | | | | | | | | | | |
| MPH204T | Х | | | Х | Х | Х | Х | | | | | | | | | | | | | | | | | |
| MPH205P | | | | | | Х | | | Х | Х | Х | | | | | | | | | | | | | |
| MPH206 | | | | | | | | | Х | Х | | | | | | | | | | | | | | |
| MRM301T | | | | | | Х | | | | | | | | | | | | | | | | | | |
| MPJ302 | | | | | | | | | | Х | | | | | | | | | | | | | | |
| MMC301 | | Х | Х | | Х | | | | Х | Х | Х | | | | | | | | | | | | | |
| MPR301 | | | | | | | Х | | | | | | | | | | | | | | | | | |
| MPR302 | | | | | | | х | | Х | Х | | Х | | | | | | | | | | | | |
| MPJ402 | | | | | | | | | | Х | | | | | | | | | | | | | | |
| MPR403 | | | | | | | Х | | Х | Х | | Х | | | | | | | | | | | | |
| MPR404 | | | | | | | | Х | | | | | | | | | | | | | | | | |
| MMC501 | | | Х | | | | | Х | | | | | | | | | | | | | | | | |
| MMC502 | | | Х | | | | | Х | | | | | | | | | | | | | | | | |
| MMC503 | | | Х | | | | | Х | | | | | | | | | | | | | | | | |

31. Capability / Transferable Skills Map

| Course Code | Group work | Self learning | Research Skills | Written Communication Skills | Verbal Communication Skills | Presentation Skills | Behavioral Skills | Information Management | Personal management/ Leadership Skills |
|-------------|------------|---------------|-----------------|------------------------------------|-----------------------------------|------------------------|-------------------|---------------------------|---|
| MPH101T | Х | Х | Х | Х | Х | Х | Χ | Х | Х |
| MPH102T | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| MPH103T | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| MPH104T | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| MPH105P | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| MPH106 | | Х | | Х | Х | Х | Х | Х | Х |
| MPH201T | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| MPH202T | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| MPH203T | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| MPH204T | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| MPH205P | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| MPH206 | | Х | | Х | Х | Х | Х | Х | Х |
| MRM301T | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| MPJ302 | | Х | Х | Х | Х | Х | Х | Х | Х |
| MMC301 | Х | Х | Х | Х | Х | Х | Х | Х | Х |
| MPR301 | | Х | Х | Х | Х | Х | Х | Х | Х |
| MPR302 | | Х | Х | Х | Х | Х | Х | Х | Х |
| MPJ402 | | Х | Х | Х | Х | Х | Х | Х | Х |
| MPR403 | | Х | Х | Х | Х | Х | Х | Х | Х |
| MPR404 | | Х | Х | Х | Х | Х | Х | Х | Х |
| MMC501 | | Х | Х | Х | Х | Х | Х | Х | Х |
| MMC502 | | Х | Х | Х | Х | Х | Х | Х | Х |
| MMC503 | | Х | Х | Х | Х | Х | Х | Х | Х |

32. Co-curricular Activities

Students are encouraged to take part in co-curricular activities like seminars, conferences, symposium, paper writing, attending industry exhibitions, project competitions and related activities to enhance their knowledge and network.

33. Cultural and Literary Activities

To remind and ignite the creative endeavors annual cultural festivals are held and the students are made to plan and organize the activities

34. Sports and Athletics

Students are encouraged to develop a habit of playing games on daily basis and also take part in annual sports and athletic events.

