

# **MOHAN BABU UNIVERSITY**

Sree Sainath Nagar, Tirupati – 517 102



## **MB SCHOOL OF PHARMACEUTICAL SCIENCES**

### ***Master of Pharmacy***

#### **MBU23 Academic Regulations and Curriculum (Version 1.0)**

(Applicable to M.Pharm Programs offered by MB School of  
Pharmaceutical Sciences in MBU from 2023-24 onwards)

#### **Choice Based Credit System (CBCS)**



# **MOHAN BABU UNIVERSITY**

## **Vision**

To be a globally respected institution with an innovative and entrepreneurial culture that offers transformative education to advance sustainability and societal good.

## **Mission**

- ❖ Develop industry-focused professionals with a global perspective.
- ❖ Offer academic programs that provide transformative learning experience founded on the spirit of curiosity, innovation, and integrity.
- ❖ Create confluence of research, innovation, and ideation to bring about sustainable and socially relevant enterprises.
- ❖ Uphold high standards of professional ethics leading to harmonious relationship with environment and society.

## **MB SCHOOL OF PHARMACEUTICAL SCIENCES**

## **Vision**

To be a global leader in the field of Pharmaceutical Education and Health Care Management by providing Quality Education, Training, Research and Entrepreneurial Ecosystem.

## **Mission**

- Developing competencies and skills to solve problems in the field of Pharmaceutical Sciences through contemporary Curriculum and congenial learning environment.
- Imbibing ethics and values in students for effective Pharmaceutical practice through curricular, co-curricular and extra-curricular activities.
- Encourage faculty and staff to excel in their respective fields and demonstrate the best of their abilities by way of continuing education, research and consultancy.

## PROGRAM EDUCATIONAL OBJECTIVES

After few years of graduation, the graduates of M.Pharm. (Pharmaceutics) will:

**PEO1:** Enrolled or completed research in the core and competency areas of Pharmacy.

**PEO2:** Employed as productive and valued professional in industry/teaching/research.

**PEO3:** Successful Entrepreneur in the pharmaceutical and allied healthcare

**PEO4:** Continue to learn and adapt evolving technologies in the core or allied areas of Pharmaceutical sciences.

## PROGRAM OUTCOMES

On successful completion of the Program, the graduates of M.Pharm. (Pharmaceutics) will be able to:

- PO1.** Apply **knowledge** of basic science and pharmaceutical science fundamentals to solve complex problems in pharmacy
- PO2.** **Analyse** the problems related to design, development and manufacturing of dosage forms.
- PO3.** **Design** drugs and drug delivery systems to meet desired needs considering public health and safety, and the cultural, societal, and environmental considerations
- PO4.** Understand and **solve complex problems** in pharmacy by conducting experimental investigations
- PO5.** Apply appropriate **methods and techniques** and understand utilization of resources appropriately to complex activities in pharmaceutical industry.
- PO6.** Understand the effect of pharmaceutical solutions on **legal, cultural, social, public health and safety** aspects relevant to the professional practice.
- PO7.** Work as an individual and as a member of a team, to plan and to integrate knowledge of various disciplines in pharmaceutical industry and to **lead teams in multidisciplinary settings**
- PO8.** Make effective **oral presentations and communicate** technical ideas to a broad audience using written and oral means
- PO9.** **Lead and manage** multidisciplinary teams by applying principles of new and ongoing projects for appropriate decision making.
- PO10.** **Adapt** to the changes and advancements in technology and engage in independent and **lifelong learning**

## **PROGRAM SPECIFIC OUTCOMES**

After successful completion of the M.Pharm. (Pharmaceutics), the graduates will be able to:

- PSO1:** Apply appropriate tools and techniques for design and development of Pharmaceutical Dosage forms, cosmeceuticals and drug delivery systems.
- PSO2:** Comprehend the pharmacokinetic parameters of drugs, dose calculations and biopharmaceutical approaches in problem solving.
- PSO3:** Acquaint knowledge on investigational new drugs and regulatory submissions
- PSO4:** Create leaders in Pharmaceutical Sector.

## **1. Preamble**

Modern era students would like to take decisions on their own and plan their future accordingly. Students would like to pursue education as per their pace. On other hand, employers expect multidisciplinary competency, leadership skills and computer literacy along with lifelong learning skills from the students. The conventional learning system has narrow scope with regard to flexibility in choosing courses of their choice to become a well-rounded personality. It is essential that the present education system should address this and provide wide opportunities for students to choose programs and courses of their interest in order to realize their full potential which in turn leads to the nation development. Further, natural resources are depleted globally at a faster rate. Hence, sustainable development has become the agenda for the complete world to preserve natural resources and environment for the sake of future generations. In addition, the world is embracing disruptive technologies to improve the quality of life. Also, students should be nurtured with skills on higher order cognitive capacities, research, innovation, incubation and entrepreneurship; life skills; social consciousness, inclusiveness, equality, culture, languages, literature, ethics and values; basic arts, crafts, humanities, games, sports and fitness.

In this context, Mohan Babu University has taken initiative and brought out Academic Regulations addressing Choice Based Credit System, sustainable development, disruptive technologies, rapid change in knowledge landscape, change in employment landscape, change in global ecosystem and other areas of national and international importance to change country's educational landscape and in turn country's landscape.

MBU23 Academic Regulations embrace Choice Based Credit System, project-based learning, enhanced practical component, etc.

## **2. Scope**

The rules and regulations stated herein shall be called "MBU23 Academic Regulations" in its complete form. MBU23 academic regulations as given in this document are applicable to students admitted in PG Programs offered under MBU from the academic year 2023-24 onwards. All academic programs under MBU23 shall be decided by the Academic council. MBU23 is applicable for both existing as well as new programs offered by the MBU, until and unless it is explicitly stated.

## **3. Regulations for all M. Pharm Programs offered under MBU**

These regulations shall be called "The Regulations for the M. Pharm Degree Program (CBCS)". They shall come into effect in the academic year 2023-24. The regulations framed are subject to modifications from time to time by Mohan Babu University (MBU) in line with the Pharmacy Council of India (PCI) regulations.

#### 4. Choice Based Credit System (CBCS)

As per the philosophy of Credit Based Semester System, certain quantum of academic work viz. theory classes, tutorial hours, practical classes, 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 by the student for each of these activities per week/per activity.

#### 5. Definitions and Nomenclature

'**Degree**' means the academic award conferred upon a student on successful completion of any program of study designed to achieve the defined attributes.

'**Program**' means cohesive arrangement of courses, co-curricular and extracurricular activities to accomplish predetermined objectives leading to the awarding of a degree in a branch or discipline. Some Degree programs also provide options to specialize in a specific domain of interest in a branch or discipline.

'**Course**' means any combination of lecture, tutorial, practical and project-based learning sessions of a subject studied in a semester, like Pharmaceutics, Pharmaceutical Analysis, Pharmacology and Pharmacognosy etc.

#### 6. Admission

**6.1 Number of Seats:** The number of seats in M.Pharm program for which admission is to be made in each department will be decided by the Board of Management, MBU with approval from Pharmacy Council of India.

##### **6.2 Nationality and Age:**

Resident Indian or Non-Resident Indian (NRI), holder of PIO or OCI card issued by Government of India is eligible to apply for Selection Process.

**Note:** NRIs, holders of PIO or OCI card issued by Government of India must apply under international student category only.

Student should have attained the age of 21+ years on the 31st December of the year in which he/she is seeking admission.

##### **6.3 Eligibility Criteria for M. Pharm Program**

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 (Bachelor of Pharmacy)

Candidates with valid scores in National level entrance exams like GPAT, is eligible for direct admission in M. Pharmacy

#### **6.4 Authority for Admission**

Any matter related to admission to any program, the decision of the Admission Committee is final.

If, at any time after admission, it is found that a candidate has not fulfilled the requirements stipulated in the offer of admission, the concerned School Dean may revoke the admission of the candidate and report the matter to the Vice Chancellor.

In Addition to the above, admissions will be based on the rules and regulations of the UGC/Competent authorities in force at the time of admissions.

### **7. M. Pharm. Specializations offered by MB School of Pharmaceutical Sciences**

School	Programs
School of Pharmaceutical Sciences	M.Pharm. (Pharmaceutics)
	M.Pharm. (Pharmaceutical Analysis)

### **8. Academic System**

#### **8.1 Semester system:**

M. Pharmacy programs offered by MB School of Pharmaceutical Sciences shall follow the Semester system. There will be two semesters in an academic year and the Program is for 4 semesters (two academic years).

#### **8.2 Curriculum**

The university Academic Regulations shall have 5-digit alpha-numeric representation that refers to University Name followed by last two digits of Calendar Year viz. MBU23 Regulations. Program Curriculum shall have the corresponding Academic Year representation. Students admitted into a program shall adopt a curriculum specified by the Academic Council for that academic year. Unless otherwise stated explicitly by the Academic Council, any curriculum changes will be applicable to the students admitted in the subsequent year and the existing batches continue to follow the curriculum prescribed at the time of their joining the program.

### **8.3 Course Classification**

Courses may be classified as Theory, Practical, Seminar, Journal Club, Proposal Presentation, Dissertation Presentation and Research Work.

### **8.4 Course Credit Assignment**

Credits shall be assigned to each Course with L: T: P: C (Lecture Hours: Tutorial Hours: Practical Hours: Credits) Structure, as defined below:

- ✓ Theory Course: One Lecture Hour (L) per week in a semester: 01 Credit
- ✓ Practical Course: One Practical Hour (P) Per week in a semester: 0.5 Credit
- ✓ Tutorial: One Tutorial Hour (T) Per week in a semester: 01 Credit

The contact periods are not specified for the courses like Seminar, Journal Club Proposal Presentation, Dissertation Presentation and Research Work. However, credits assigned are based on complexity of work.

### **8.5 Syllabus**

The syllabus of a course provides what the student will learn in the course of study. Each course syllabus document contains course code, course title, L T P C, course description, course outcomes, module-wise topics, duration to cover each module, text books, reference books, video lectures and web resources for additional learning.

### **8.6 Course Handout**

A Course Handout consists of a detailed plan of lectures and their mode of delivery, List of Exercises/Experiential learning, Resources, Evaluation methods, Model Question paper and CO Attainment Targets.

## **9. Academic Calendar**

The academic calendar includes the dates about course registrations, spell of instructions, continuous internal assessment tests, semester-end theory examinations, practical examinations and semester holidays. The Registrar will communicate the Academic calendar to the Departments/ Schools, and the same will be available on the website. The dates and schedules in the academic calendar may change in specific programs due to regulatory and local requirements. In such cases, the concerned School Dean with prior authorization will communicate the changes to the students. The revised academic calendar will also made available on the website.

## **10. Course Registration**

Immediately after joining the University, each student shall be assigned a Mentor by the Department/School concerned. The mentor shall discuss with the student on their academic performance semester-wise, periodically, and guide the student on nature and number of courses to be registered in the ensuing semester, within the framework of that program curriculum.



- ❖ Through the course registration process, every semester, it is mandatory for the students to register for the courses specified in the semester as and when notified, with the approval of the mentor.
- ❖ The students may be asked to undergo non-credited Bridge Courses for necessary fundamental disciplines as recommended by the program curriculum.
- ❖ Students shall not be permitted to register for the courses if the student has any outstanding dues to the University.
- ❖ For registering IV Semester End Examinations, the student is eligible only if he/she successfully completed all courses till III-Semester as per their program course structure.

### **10.1 Arrear Examination:**

- ❖ If a student failed in a course, then the student is allowed to register for arrear examinations as and when notified.
- ❖ If a student has backlog courses after completion of the program of study, a provision is given to clear the courses by appearing any number of arrear examinations upon the notifications within the stipulated program duration as mentioned in section 18.

## **11. Attendance Requirements**

- ❖ A student shall be eligible to appear for semester-end examinations if he acquires a minimum of 80% of attendance in aggregate of all the courses in a semester.
- ❖ Condonation of shortage of attendance in aggregate up to 10% (70% and above and below 80%) in each semester may be granted by the School Dean.
- ❖ Shortage of attendance below 70% in aggregate shall in no case be condoned.
- ❖ Students whose shortage of attendance is not condoned in any semester shall not be eligible to take their semester-end examination and their registration shall stand cancelled.
- ❖ Student shall not be promoted to the next semester unless he satisfies the attendance requirements of the semester, as applicable. The student may seek readmission for the semester when offered next. He will not be allowed to register for the courses of the semester while he is in detention.
- ❖ Stipulated fee shall be payable to the college towards condonation of shortage of attendance.
- ❖ In the remaining 20% of attendance, the student shall manage medical/personnel/ casual/official absence for organizing events/ seminars/ workshops/ technical/ cultural festivals/ competitions/ participation in co-curricular/ extra-curricular events or any other reason.

## 12. Evaluation Criteria

### 12.1 Scheme of Evaluation

All components in any Program of Study shall be evaluated through Internal Evaluation and/or Semester End Evaluation.

Course Type	Marks	Examination and Evaluation	Scheme of Examination											
Theory	25	15 Mid Examination <b>(60 Minutes)</b>	<p>Two Mid Examinations each for 30 marks shall be conducted and each shall be scaled to 15 marks.</p> <ul style="list-style-type: none"> <li>The question paper for Mid-I &amp; Mid-II shall be of descriptive type with two parts i.e., Part A and Part B</li> <li>Part A contains 4 short answer questions [(Q 1 (a) to (d))] out of which student shall answer 3 questions and be evaluated each for 5 marks</li> <li>Part B contains 2 long answer questions [(Q 2 (a) to (b))] out of which the student shall answer 1 question and be evaluated for 15 marks.</li> </ul>											
		10 Continuous Assessment	<p>The student shall be assessed based on the following parameters two times in a semester.</p> <ul style="list-style-type: none"> <li><b>Attendance – Max. 4 Marks</b> <table border="1"> <thead> <tr> <th>Percentage of Attendance</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>95 – 100</td> <td>4</td> </tr> <tr> <td>90 – 94</td> <td>3</td> </tr> <tr> <td>85 – 89</td> <td>2</td> </tr> <tr> <td>80 – 84</td> <td>1</td> </tr> <tr> <td>Less than 80</td> <td>0</td> </tr> </tbody> </table> </li> <li><b>Academic activities – Max. 3 Marks</b> (Average of any 3 activities Eg. Quiz, Assignment, Open Book Test, Fieldwork, Group Discussion and Seminar)</li> <li><b>Student-Teacher interaction – Max. 3 Marks</b></li> </ul>	Percentage of Attendance	Marks	95 – 100	4	90 – 94	3	85 – 89	2	80 – 84	1	Less than 80
	Percentage of Attendance	Marks												
95 – 100	4													
90 – 94	3													
85 – 89	2													
80 – 84	1													
Less than 80	0													
For a total of 25 Marks, the average of sum of Mid-I & First Continuous Assessment marks and sum of Mid-II & Second Continuous Assessment marks shall be considered.														
	75	Semester End Examination <b>(180 Minutes)</b>	<p>The examination shall be conducted for 75 marks</p> <p>The question paper shall of descriptive type with two parts i.e., Part-A and Part-B.</p> <p>Part-A shall contain 8 short answer questions [Q. No. 1 (a) to (h)] out of which student should be answering 6 question and evaluated each for 5 marks.</p> <p>Part-B shall contain Five questions of which student has to answer 3 questions and shall be evaluated each for 15 marks.</p>											

Course Type	Marks	Examination and Evaluation	Scheme of Examination												
Practical	50	10	Day-to-day Evaluation Day-to-day evaluation based on the performance in the conduction of laboratory experiments and its records & Viva voce for 10 Marks												
		10	Attendance <table border="1"> <thead> <tr> <th>Percentage of Attendance</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>95 - 100</td> <td>10</td> </tr> <tr> <td>90 - 94</td> <td>7.5</td> </tr> <tr> <td>85 - 89</td> <td>5</td> </tr> <tr> <td>80 - 84</td> <td>2.5</td> </tr> <tr> <td>Less than 80</td> <td>0</td> </tr> </tbody> </table>	Percentage of Attendance	Marks	95 - 100	10	90 - 94	7.5	85 - 89	5	80 - 84	2.5	Less than 80	0
		Percentage of Attendance	Marks												
	95 - 100	10													
90 - 94	7.5														
85 - 89	5														
80 - 84	2.5														
Less than 80	0														
30	Internal Examination (4 Hours) <ul style="list-style-type: none"> <li>One Internal Examination shall be conducted for 30 marks</li> <li>Evaluation shall be on the following parameters. <ul style="list-style-type: none"> <li>Part A – Synopsis for 5 marks</li> <li>Part B – Major Experiment for 15 marks,</li> <li>Part C – Minor experiment for 5 marks</li> <li>Part D – Viva voce for 5 marks.</li> </ul> </li> </ul> The distribution of marks may be altered as per the course requirement.														
100	Semester End Examination (8 Hours) <ul style="list-style-type: none"> <li>Evaluation shall be on the following parameters. <ul style="list-style-type: none"> <li>Part A – Synopsis for 20 marks</li> <li>Part B – Major Experiment for 40 marks,</li> <li>Part C – Minor experiment for 20 marks</li> <li>Part D – Viva voce for 20 marks.</li> </ul> </li> </ul> The distribution of marks may be altered as per the course requirement.														
Seminar	100	Semester End Examination	Detailed in Section 12.2												
Journal Club	25	Internal Assessment	The student shall refer to Two Journal Papers and the synopsis of each article shall be presented to the Evaluation Committee (EC). Each presentation shall be evaluated for 25 marks. For a total of 25 marks, 80% of the better one of the two and 20% of the other one are added and finalized.												

Proposal Presentation	50	Internal Assessment	A student must identify the topic of the Research, after a thorough relevant Literature survey. The same shall be presented to the Project Evaluation Committee (PEC). The performance of the student shall be evaluated based on TWO reviews along with detailed discussions. Each review shall be conducted for a maximum of "50" marks. For a total of 50 marks, 80% of the better one of the two and 20% of the other one are added and finalized.
Dissertation Presentation	75	Internal Assessment	A student has to present the progress of the Research Work to the Project Evaluation Committee (PEC). The performance of the student shall be evaluated based on TWO reviews along with detailed discussions. Each review shall be conducted for a maximum of "75" marks. For a total of 75 marks, 80% of the better one of the two and 20% of the other one are added and finalized.
Research work Phase -I	350	Semester End Examination	Detailed in Section 12.3
Research work Phase-II	400	Semester End Examination	Detailed in Section 12.4

### **12.2 Seminar**

The student shall collect information through a literature survey on a specialized topic and prepare a technical report, showing his understanding of the topic, and submit it to the seminar evaluation committee (SEC) followed by a presentation of the same shall be made before the SEC and shall be evaluated for 100 marks.

The report and presentation shall be evaluated at the end of the semester by the Seminar Evaluation Committee (SEC) consisting of the concerned supervisor and senior faculty member of the department nominated by the Head of the department with the approval of the respective school dean. If required, multiple SECs shall be constituted for multiple sections with prior approval.

### **12.3 Research Work Phase-I**

A student has to take up and complete Research Work-Phase I in III-Semester. He/she has to identify the topic of the Project Work, collect relevant Literature, preliminary data, implementation tools/methodologies etc., and perform a critical study and analysis of the problem identified and submit a Report.

The Research Evaluation Committee (REC) consisting of concerned supervisor and two senior faculty members shall monitor the progress of the project work of the student. The PEC is constituted by the respective School Dean on the recommendations of the Head of the Department.

**Semester end Evaluation:** The performance of the student shall be evaluated in semester-end examination by the concerned guide and a senior faculty member recommended by the Head of the

Department and appointed by the respective Dean of the School based on the following parameters

Objective of the work	50 Marks
Problem Identification	75 Marks
Methodology	100 Marks
Presentation of work	50 Marks
Communication Skills	25 Marks
Viva-Voce	50 Marks
<b>Total</b>	<b>350 Marks</b>

#### **12.4 Research work Phase-II**

A student shall continue Research Work-Phase I in order to undertake the Research Work Phase II during the IV-Semester by extending practical investigations, implementation, analysis of results, validation and report writing. The student shall submit a Project report at the end of the semester after approval of the REC.

##### **Semester End Evaluation:**

The student is eligible for registering IV Semester End Examinations only if he/she successfully completed all courses till III-Semester as per their program course structure.

A candidate shall be allowed to submit the dissertation/Thesis report on the recommendations of the REC. Four copies of the dissertation certified in the prescribed format by the concerned Supervisor and HOD shall be submitted to the Department. One copy is to be submitted to the Controller of Examinations and one copy to be sent to the examiner. The examiner shall be nominated by the School Dean from the panel of THREE examiners submitted by the Department for a maximum of 5 students at a time for adjudication.

The performance of the student shall be evaluated in semester-end examination by the concerned guide and a senior faculty member recommended by the Head of the Department and appointed by the respective School Dean based on the following parameters

Methodology Adopted	100 Marks
Results	100 Marks
Conclusions and Outcomes	75 Marks
Presentation of work	50 Marks
Communication Skills	25 Marks
Viva-Voce	50 Marks
<b>Total</b>	<b>400 Marks</b>

- ❖ The guidelines for preparing dissertation/thesis report shall be notified through respective Program Head from time to time.
- ❖ The Thesis report shall be subjected to plagiarism check and the report is accepted only if it is less than 20%.
- ❖ It is mandatory that every student has to publish/submit acceptance letter of a paper in a peer

reviewed Journal or Conference before IV Semester End Examinations. Otherwise, the student is not eligible for submission of thesis report.

- ❖ If the report of the examiner is favourable, Semester-end Project Work Phase-II Viva-Voce Examination shall be conducted by a Committee consisting of External examiner (nominated by the School Dean), HOD and concerned Supervisor at the end of the IV-Semester.
- ❖ If the report of the examiner is not favourable, the dissertation should be revised and resubmitted after a minimum period of three months.
- ❖ The students who fail in Research work Phase-I (or) Phase-II Viva-Voce examination shall have to re-appear for the Viva-Voce examination after three months.
- ❖ Extension of time for completing the project is to be obtained from the Academic Council, MBU.
- ❖ Change of the research work topic shall be permitted only in Research Work Phase-I, within FOUR weeks after commencement of the III-Semester with the approval of the REC.

### **12.5. Recounting /Revaluation/Personal Verification/ Challenging Evaluation:**

Students shall be permitted to apply for Recounting /Revaluation/Personal Verification/ Challenging Evaluation of the Semester End Examination answer scripts within a stipulated period after payment of the prescribed fee. After completion of the process of Recounting/ Revaluation/Personal Verification/ Challenging Evaluation, the records are updated with changes if any, and the student shall be issued a revised grade sheet. If there are no changes, the student shall be intimated the same through a notice.

### **12.6 Improvement of Internal Assessment**

A student shall have the opportunity to improve his/ her performance only once in the mid exam component of internal assessment. The reconduct of mid exam shall be completed before the commencement of immediate next semester.

## **13. Course Wise Grading of Students**

Each student shall be awarded Letter Grades and Grade Points (GP) based on the aggregate of marks obtained through Internal Evaluation and Semester End Evaluation in a course.

### **13.1 Absolute Grading**

Based on the performance, each student shall be awarded a final letter grade at the end of semester for each course. The letter grades and their corresponding grade points are given in table no 4.

#### **Letter Grades and Corresponding Grade Points equivalent to percentage of marks**

<b>% of Marks obtained</b>	<b>Letter Grade</b>	<b>Performance</b>	<b>Grade Points (GP)</b>
≥90	O	Outstanding	10
≥80 to <90	A	Excellent	9
≥70 to < 80	B	Good	8
≥ 60 to < 70	C	Fair	7
≥ 50 to < 60	D	Average	6
<50	F	Fail	0
Absent	Ab	Fail	0

A student is considered to have successfully completed a course and earned the credits if he / she secured a letter grade other than "F" or "Ab" in that course. A letter grade "F" or "Ab" in any course implies a failure in that course. The student should reappear for the said examination in the due course.

**Pass Marks:** In Absolute Grading, a student shall be declared as "PASS" in a course if he/she secures a minimum of 50% of the total marks obtained from Internal assessment and Semester End Evaluation. Otherwise, he/she shall be declared as "FAIL" in that course.

**13.2 Semester Grade Point Average (SGPA):** SGPA shall be calculated as given below on a "10 point scale" as an index of the student's performance:

$$SGPA = \frac{\sum(C \times GP)}{\sum C}$$

Where "C" denotes the "credits" assigned to the courses undertaken in that semester and "GP" denotes the "grade points" earned by the student in the respective courses.

**Note:** SGPA is calculated only for the candidates who appeared in the semester-end regular examinations in a particular semester.

**13.3 Cumulative Grade Point Average (CGPA):**

The CGPA shall be calculated for a candidate who appeared in the Semester End Examination (including Regular & Arrear) till that semester. The CGPA shall be displayed in the Grade sheet of the Regular Semester-end examinations and also in the consolidated Grade Sheet issued at the end of the program. The CGPA is computed on a 10-point scale as given below:

$$CGPA = \frac{\sum(C \times GP)}{\sum C}$$

Where, C denotes the credits assigned to courses undertaken up to the end of the Program and GP denotes the grade points earned by the student in the respective courses.

Both SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.

**13.4 Award of Class** – The CGPA requirement for the award of class is as follow

**CGPA requirement - Awarding of Class**

CGPA Secured	Class Awarded
≥ 7.5	First Class with Distinction
≥6.0 and <7.49	First Class
≥5.0 and <5.99	Second Class

#### **14. Grade Sheet**

A grade sheet shall be issued to each student indicating the SGPA and CGPA, provided if he passed all the courses registered in the regular semester-end examinations.

#### **15. Consolidated Grade Sheet**

After successful completion of the entire Program of study, a Consolidated Grade Sheet indicating the performance in all academic years shall be issued as a final record. Duplicate Consolidated Grade Sheet shall also be issued, if required, after payment of the requisite fee.

#### **16. Withholding of Results**

Results may be withheld in a semester, if

- ❖ The student has any dues to the Department/ School/ University
- ❖ Action arising out of malpractice is pending
- ❖ Action arising out of indiscipline is pending
- ❖ The student whose result was withheld shall not be allowed/promoted to the next higher semester.

#### **17. Credit Transfer**

- ❖ If a student discontinued in any of the semester and later, he wishes to continue in the same program, then he shall follow the latest regulations and curriculum that is being implemented during readmission into the same semester. However, the earned credits before discontinued shall be transferred to his credit account and he has to complete his degree within the stipulated program duration as mentioned in section 18.
- ❖ A similar procedure shall be adopted for the candidates who are seeking admission from other universities into various eligible programs of the University, subject to the condition that those Universities are recognized and approved for credit transfer by MBU.
- ❖ If the other Universities follow a different system, then the program School into which the student is seeking admission/ transfer shall work out on equivalence of credits that are to be transferred with valid supporting documentation.
- ❖ The number of credits thus transferred will be considered for the minimum credit requirements of the program, but not considered for the GPA/ CGPA calculations. The credits thus transferred will be indicated as total credits at the bottom of the Consolidated Grade Sheet as 'Total Credits Transferred from (Name of the Institute, place and Country)' and no breakup of courses will be listed.
- ❖ Award of degree classification is purely based on the GPA/CGPA calculations considering credits earned during the program of study with the MBU.



## 18. Program Duration

**Minimum Duration:** The minimum duration for M. Pharm Program is detailed below

A student is said to be completed the program only if he/she earns required credits, as specified in their program curriculum. However, the degree shall be awarded only upon the completion of minimum duration of the program concerned.

**Maximum Duration:** if a student has backlog courses even after the completion of the minimum duration limit, an additional grace period equivalent to double the period of minimum duration of the program of study shall be extended. Under no circumstances, the period of study shall be extended beyond the above limit and thereafter his/her studentship stands cancelled automatically. No separate intimation in this regard will be sent to the student.

## 19. Award of Degree

**Eligibility:** A student shall be eligible for the award of M.Pharm. Degree if he fulfills all the following conditions:

- Registered and successfully completed all the components prescribed in the Program of study to which he is admitted.
- Successfully acquired the minimum required credits as specified in the curriculum corresponding to the Program of study within the stipulated time.
- Obtained CGPA greater than or equal to 5.0 (Minimum requirement for declaring as passed).
- Has NO DUES to the University, Hostel, Library etc. and to any other amenities provided by the University.
- No disciplinary action is pending against him.

After successful completion of the program and minimum credit requirements as specified in the program curriculum, a Provisional Certificate will be issued to eligible students. The degree will be conferred on the student during the subsequent Convocation.

## 20. Amendments to Regulations

The Academic Council headed by the Vice-Chancellor of the University has the right to revise, amend, or change any component of regulations from time to time. In case of any dispute arising in interpreting the rules, the Academic Council's interpretation shall be the final decision.

## 21. General

The words such as "he", "him", "his" and "her" shall be understood to include all students irrespective of gender connotation.

**Note:** Failure to read and understand the regulations is not an excuse.

**GUIDELINES FOR DISCIPLINARY ACTION FOR MALPRACTICES /  
IMPROPER CONDUCT IN EXAMINATIONS**

<b>Rule No.</b>	<b>Nature of Malpractices/Improper conduct</b>	<b>Punishment</b>
	<i>If the candidate:</i>	
1. (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, Cell phones, pager, palm computers or any other form of material concerned with or related to the course of the examination (theory or practical) in which he is appearing but has not made use of (material shall include any marks on the body of the candidate which can be used as an aid in the course of the examination)	Expulsion from the examination hall and cancellation of the performance in that course only.
(b)	Gives assistance or guidance or receives it from any other candidate orally or by any other body language methods or communicates through cell phones with any candidate or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that course only of all the candidates involved. In case of an outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the course of the examination (theory or practical) in which the candidate is appearing.	Expulsion from the examination hall and cancellation of the performance in that course and all other courses the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the courses of that Semester.  The Hall Ticket of the candidate is to be cancelled.
3.	Impersonates any other candidate in connection with the examination.	The candidate who has impersonated shall be expelled from examination hall. The candidate is also debarred for four consecutive semesters from class work and all Semester-end examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.  The performance of the original candidate who has been impersonated, shall be cancelled in all the courses of the examination (including labs and project work) already appeared and shall not be

Rule No.	Nature of Malpractices/Improper conduct	Punishment
	<i>If the candidate:</i>	
		allowed to appear for examinations of the remaining courses of that semester. The candidate is also debarred for four consecutive semesters from class work and all Semester-end examinations, if his involvement is established. Otherwise, The candidate is debarred for two consecutive semesters from class work and all Semester-end examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the Answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that course and all the other courses the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the courses of that semester. The candidate is also debarred for two consecutive semesters from class work and all Semester-end examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that course only.
6.	Refuses to obey the orders of the Chief Controller of Examinations/Controller of Examinations/any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the Controller of Examinations or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that course and all other courses the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the courses of that semester. If the candidate physically assaults the invigilator/Controller of the Examinations, then the candidate is also debarred and forfeits his/her seat. In case of outsiders, they will be handed over to the police and a police case is registered against them.

Rule No.	Nature of Malpractices/Improper conduct	Punishment
	<i>If the candidate:</i>	
	Controller of Examinations, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that course and all the other courses the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the courses of that semester. The candidate is also debarred for two consecutive semesters from class work and all Semester-end examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that course and all other courses the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the courses of that semester. The candidate is also debarred and forfeits the seat.

**Note:** Whenever the performance of a student is cancelled in any course(s) due to Malpractice, Then it shall be treated as failed in that course.

## Course structure

### M.Pharm. (Pharmaceutics)

#### I Semester

S. No.	Course Code	Course Title	Contact Periods per Week				Credits (c)	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1.	23PA201001	Modern Pharmaceutical Analytical techniques	4	-	-	4	4	25	75	100
2.	23PH201001	Drug Delivery System	4	-	-	4	4	25	75	100
3.	23PH201002	Modern Pharmaceutics	4	-	-	4	4	25	75	100
4.	23PH201003	Regulatory Affairs	4	-	-	4	4	25	75	100
5.	23PH205001	Pharmaceutics Practical I			12	12	6	50	100	150
6.	23PH211001	Seminar I	-	-	-	-	4	-	100	100
<b>Total</b>			<b>16</b>	<b>-</b>	<b>12</b>	<b>28</b>	<b>26</b>	<b>150</b>	<b>500</b>	<b>650</b>

#### II Semester

S. No.	Course Code	Course Title	Contact Periods per Week				Credits (c)	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1	23PH201004	Molecular Pharmaceutics	4	-	-	4	4	25	75	100
2	23PH201005	Advanced Biopharmaceutics and Pharmacokinetics	4	-	-	4	4	25	75	100
3	23PH201006	Computer-Aided Drug Delivery System	4	-	-	4	4	25	75	100
4	23PH201007	Cosmetics and Cosmeceuticals	4	-	-	4	4	25	75	100
5	23PH205002	Pharmaceutics Practical II			12	12	6	50	100	150
6	23PH211002	Seminar II	-	-	-	-	4	-	100	100
<b>Total</b>			<b>16</b>	<b>-</b>	<b>12</b>	<b>28</b>	<b>26</b>	<b>150</b>	<b>500</b>	<b>650</b>

### III Semester

S. No.	Course Code	Course Title	Contact Periods per Week				Credits (c)	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1	23PY201001	Research Methodology and Biostatistics	4	-	-	4	4	25	75	100
2	23PH211003	Journal Club I	-	-	-	-	1	25		25
3	23PH211004	Proposal Presentation	-	-	-	-	2	50		50
4	23PH209001	Research Work Phase I	-	-	-	-	14	-	350	350
<b>Total</b>			<b>4</b>	<b>-</b>	<b>-</b>	<b>4</b>	<b>21</b>	<b>100</b>	<b>425</b>	<b>525</b>

### IV Semester

S. No.	Course Code	Course Title	Contact Periods per Week				Credits (c)	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1.	23PH211005	Journal Club II	-	-	-	-	1	25		25
2.	23PH211006	Dissertation Presentation	-	-	-	-	3	75		75
3.	23PH210001	Research Work Phase II	-	-	-	-	16	-	400	400
<b>Total</b>			<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20</b>	<b>100</b>	<b>400</b>	<b>500</b>