



## ODISHA UNIVERSITY OF HEALTH SCIENCES, BHUBANESWAR

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F. No. OUHS/CD/323/ 176 / 2023

Date: 17.11.2023

To

All the Dean & Principals / Directors,  
All Pharmacy Colleges affiliated under OUHS.

Sub:- Approval of

1. Regulation and Courses of Studies of B-Pharm
2. Regulation and Courses of Studies of M-Pharm

Madam/Sir,

With reference to the PCI guidelines, the document as per above subject matter should be followed by the Pharmacy colleges affiliated under OUHS.

Yours faithfully,

  
Registrar,  
OUHS, Bhubaneswar

Memo No: 177 / 2023

Date: 17.11.2023

Copy forwarded to:-

1. The Principal Secretary to the Hon'ble Chancellor, Raj Bhavan, Odisha, Bhubaneswar;
2. The Commissioner-Cum-Secretary, Health & Family Welfare, Odisha, Bhubaneswar;
3. Registrars of all universities of State (Previously regulated said courses)

Yours faithfully,

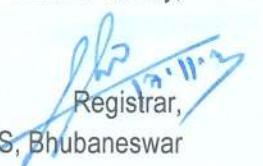
  
Registrar,  
OUHS, Bhubaneswar

Memo No: 178 / 2023

Date: 17.11.2023

Copy forwarded to OSD to the Vice-Chancellor for information of the Vice-Chancellor.

Yours faithfully,

  
Registrar,  
OUHS, Bhubaneswar

**REGULATIONS & COURSES OF STUDIES  
FOR 2 YEARS MASTER OF PHARMACY (M. PHARM) DEGREE COURSE - 2023**

(Approved in the 1<sup>st</sup> meeting of the Academic Council held on October, 16, 2023 and  
Executive Board held on October, 18, 2023)



*[Signature]*  
Director, Curriculum  
Director, Curriculum  
Odisha University of Health Sciences  
Bhubaneswar

*[Signature]*  
Registrar  
Registrar  
Odisha University of Health Sciences  
Bhubaneswar



**THE ODISHA UNIVERSITY OF HEALTH SCIENCES,  
BHUBANESWAR- 751009**

## REGULATIONS & COURSES OF STUDIES FOR 2 YEARS MASTER OF PHARMACY DEGREE COURSES - 2023

- 1. Title and commencement of the Program:** Master of Pharmacy (M.Pharm).
  - i. These regulations may be called "Master of Pharmacy (M.Pharm Regulations 2023" (In short M.Pharm) Regulations- 2023".
  - ii. These regulations and courses of studies (Syllabus) specialization wise are in conformity with the Pharmacy Council of India, and All India Council for Technical Education (In Short PCI and AICTE).
  - iii. They shall come into force with effect from current the academic session 2023-24.
  - iv. The Regulations framed are subject to modification by the Academic Council and Executive Board of the Odisha University of Health Sciences, Bhubaneswar from time to time.
- 2. Introduction:** The course is an advanced course in the field of life sciences to serve the community regarding health-related issues. It enables the students to understand the manufacturing of medicines and their reactions in the human body to restrain various diseases. It also deals with analysing, testing, data interpreting and researching of drugs for the treatment of the diseases of human kind. The modernization of the Pharmaceuticals has made a massive impact on the development of medical field.
- 3. Goal:** The goal is to prepare students for advanced roles in pharmaceutical research, academia, industry, and clinical practice, with a strong emphasis on ethical conduct, critical thinking, and commitment to lifelong learning in the ever-evolving healthcare environment.
- 4. Objectives: The objective is to:**
  - Provide students with advanced knowledge and skills in the field of Pharmacy, including the development, production, and use of pharmaceutical drugs.
  - Develop students' clinical skills and knowledge through experiential learning opportunities, such as clinical rotations and internships.
  - Promote the safe and effective use of pharmaceutical drugs, and encourage the development of new and innovative treatments for a variety of diseases and conditions.
  - Foster a sense of professionalism and ethical responsibility among students, and encourage them to become leaders in the field of pharmacy.
- 5. Eligibility for admission to the Course:** The eligibility criterions prescribed by the Pharmacy Council of India from time to time shall be applicable to the affiliated Colleges / Institutions under this University mutatis mutandis. In addition, candidate (s) allotted a seat on the basis of qualifying examination and merit, shall be required to submit college leaving certificate, migration certificate (if applicable) in original, physical fitness certificate and a declaration before the Principal / Director of the Institution that
  - (i) I am not continuing in any Degree Course under any State, Deemed, Central University and Autonomous Body,
  - (ii) I have not been involved in any kind of criminal and unlawful activities in the past.

Provided further, after fulfilment of all condition (s), the University on receipt of student detail with prescribed fees, shall issue University Registration Number as per OUHS First Statute-2023, which shall be used as Roll Number for First, Second and Third Professional Examination (s).

6. **Duration:** The duration of M.Pharm Course is two years and consists of four semesters. Each semester consists of 6 months.
7. **Medium of instruction:** English shall be the medium of instruction for all the subjects of study and for examination of the course.
8. **Commencement of the Course:** The course will commence from September 1st. of every year or as to be notified by the University after allotment of seats through Nodal State Body is over.
9. **Academic Year:** The academic year shall be twelve months commencing on the first day of enrolment into the course. Each academic year shall consist of two Semester which shall mean six months.
10. **Attendance:** The student shall attend not less than 80% (eighty percent) of the classes during each academic semester.
11. **Course Structure:** The whole duration of two years is divided into four semesters.
  - 11.1. During the Course, a student shall be required undertake teaching, training and research activities i.e. from 1<sup>st</sup> Semester to 4<sup>th</sup> Semester.
  - 11.2. **Structure:**  
The Branch wise M.Pharm. Program structures are as under;

**Table-01 List of M.Pharm Branches / Specializations.**

Sl	Code	Specializations
1	PH	Pharmaceutics
2	PC	Pharmaceutical Chemistry
3	PA	Pharmaceutical Analysis
4	QA	Pharmaceutical Quality Assurance
5	RA	Pharmaceutical Regulatory Affairs
6	PL	Pharmacology
7	PG	Pharmacognosy
8	PT	Pharmaceutical Technology

#### 11.2.1. M.Pharm in Pharmaceutics

**Table No. 02 First Semester- Pharmaceutics**

Code	Title	Theory	IA	Total Marks	Credit
23PMPH10	Modern Pharmaceutical Analytical Techniques	75	25	100	4
23PMPH11	Drug Delivery System	75	25	100	4
23PMPH12	Modern Pharmaceutics	75	25	100	4
23PMPH13	Regulatory Affair	75	25	100	4
23PMPH1P	Pharmaceutics Practical	100	50	150	6
23PMPH1A	Seminar / Assignment			100	4
<b>Total</b>				<b>650</b>	<b>26</b>



**Table No. 02      Second Semester- Pharmaceutics**

Code	Title	Theory	IA	Total Marks	Credit
23PMPH20	Molecular Pharmaceutics	75	25	100	4
23PMPH21	Adv. Biopharmaceutics & Pharmacokinetics	75	25	100	4
23PMPH22	Computer Aided Drug Delivery System	75	25	100	4
23PMPH23	Cosmetic and Cosmeceuticals	75	25	100	4
23PMPH2P	Pharmaceutics Practical II	100	50	150	6
23PMPH2A	Seminar / Assignment			100	4
<b>Total</b>				<b>650</b>	<b>26</b>

**Table No. 03.      Third Semester- Pharmaceutics**

Code	Title	Theory	IA	Total Marks	Credit
23PMPH30	Research Methodology & Biostatistics*	75	25	100	4
23PMPH31	Journal Club		25	25	1
23PMPH32	Discussion / Presentation (Proposal Presentation)		50	50	2
23PMPH33	Research Work		350	350	14
<b>Total</b>				<b>525</b>	<b>21</b>

\* Non-University Examination

**Table No 04.      Fourth Semester- Pharmaceutics**

Code	Title	Theory	IA	Total Marks	Credit
23PMPH41	Journal Club		25	25	1
23PMPH42	Discussion / Presentation (Proposal Presentation)				16
23PMPH43	Research Work & Colloquium			400	3
<b>Total</b>				<b>500</b>	<b>20</b>

## 11.2.2. M.Pharm in Pharmaceutical Chemistry

**Table No. 05.      First Semester- Pharmaceutical Chemistry**

Code	Title	Theory	IA	Total Marks	Credit
23PMPC10	Modern Pharmaceutical Analytical Techniques	75	25	100	4
23PMPC11	Adv. Organic Chemistry-I	75	25	100	4
23PMPC12	Adv. Medicinal Chemistry	75	25	100	4
23PMPC13	Chemistry of Natural Products	75	25	100	4
23PMPC1P	Pharmaceutical Chemistry Practical -I	100	50	150	6

Code	Title	Theory	IA	Total Marks	Credit
23PMPC1A	Seminar / Assignment			100	4
Total				650	26

**Table No 06. Second Semester- Pharmaceutical Chemistry**

Code	Title	Theory	IA	Total Marks	Credit
23PMPC20	Adv. Spectral Analysis	75	25	100	4
23PMPC21	Adv. Organic Chemistry-II	75	25	100	4
23PMPC22	Computer Aided Drug Design	75	25	100	4
23PMPC23	Pharmaceutical Process Chemistry	75	25	100	4
23PMPC2P	Pharmaceutical Chemistry Practical	100	50	150	6
23PMPC2A	Seminar / Assignment			100	4
Total				650	26

**Table No. 07. Third Semester- Pharmaceutical Chemistry**

Code	Title	Theory	IA	Total Marks	Credit
23PMRM30	Research Methodology & Biostatistics*	75	25	100	4
23PMPC31	Journal Club		25	25	1
23PMPC32	Discussion / Presentation (Proposal Presentation)		50	50	2
23PMPC33	Research Work		350	350	14
Total				525	21

\* Non-University Examination

**Table No. 08 Fourth Semester- Pharmaceutical Chemistry**

Code	Title	Theory	IA	Total Marks	Credit
23PMPC40	Journal Club		25	25	1
23PMPC41	Discussion / Presentation (Proposal Presentation)				16
23PMPC42	Research Work & Colloquium			400	3
Total				500	20

### 11.2.3. M.Pharm in Pharmaceutical Analysis

**Table No 09. First Semester- Pharmaceutical Analysis**

Code	Title	Theory	IA	Total Marks	Credit
23PMPA10	Modern Pharmaceutical Analytical Techniques	75	25	100	4
23PMPA11	Adv. Pharmaceutical Analysis	75	25	100	4
23PMPA12	Adv. Pharmaceutical Validation	75	25	100	4

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Code	Title	Theory	IA	Total Marks	Credit
23PMPA13	Food Analysis	75	25	100	4
23PMPA1P	Pharmaceutical Analysis Practical -I	100	50	150	6
23MMPA1A	Seminar / Assignment			100	4
				650	26

**Table No. 10 Second Semester- Pharmaceutical Analysis**

Code	Title	Theory	IA	Total Marks	Credit
23PMPA20	Adv. Instrumental Analysis	75	25	100	4
23PMPA21	Modern Bio-Analytical Techniques	75	25	100	4
23PMPA22	Quality Control & Quality Assurance	75	25	100	4
23PMPA23	Herbal & Cosmetic Analysis	75	25	100	4
23PMPA24	Pharmaceutical Analysis Practical	100	50	150	6
23PMPA2A	Seminar / Assignment			100	4
Total				650	26

**Table No. 11 Third Semester- Pharmaceutical Analysis**

Code	Title	Theory	IA	Total Marks	Credit
23PMRM30	Research Methodology & Biostatistics*	75	25	100	4
23PMPA31	Journal Club		25	25	1
23PMPA32	Discussion / Presentation (Proposal Presentation)		50	50	2
23PMPA33	Research Work		350	350	14
Total				525	21

\* Non-University Examination

**Table No. 12 Fourth Semester- Pharmaceutical Analysis**

Code	Title	Theory	IA	Total Marks	Credit
23PMPA41	Journal Club		25	25	1
23PMPA42	Discussion / Presentation (Proposal Presentation)				16
23PMPA43	Research Work & Colloquium			400	3
Total				500	20

#### 11.2.4. M.Pharm in Pharmaceutical Quality Assurance

**Table No 13 First Semester- Pharmaceutical Quality Assurance**

Code	Title	Theory	IA	Total Marks	Credit
23PMQA10	Modern Pharmaceutical Analytical Techniques	75	25	100	4
23PMQA11	Quality Management System	75	25	100	4

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Code	Title	Theory	IA	Total Marks	Credit
23PMQA12	Quality Control & Quality Assurance	75	25	100	4
23PMQA13	Product Development & Technology Transfer	75	25	100	4
23PMQA1P	Pharmaceutical Quality Assurance Practical -I	100	50	150	6
23PMQA1A	Seminar / Assignment			100	4
Total				650	26

**Table No 15 Second Semester- Pharmaceutical Quality Assurance**

Code	Title	Theory	IA	Total Marks	Credit
23PMQA20	Hazards & Safety Management	75	25	100	4
23PMQA21	Pharmaceutical Validation	75	25	100	4
23PMQA22	Audits & Regulatory Compliance	75	25	100	4
23PMQA23	Pharmaceutical Manufacturing Technology	75	25	100	4
23PMQA2P	Pharmaceutical Quality Assurance Practical II	100	50	150	6
23PMQA2A	Seminar / Assignment			100	4
Total				650	26

**Table No 16 Third Semester- Pharmaceutical Quality Assurance**

Code	Title	Theory	IA	Total Marks	Credit
23PMQA30	Research Methodology & Biostatistics*	75	25	100	4
23PMQA31	Journal Club		25	25	1
23PMQA32	Discussion / Presentation (Proposal Presentation)		50	50	2
23PMQA33	Research Work		350	350	14
Total				525	21

\* Non-University Examination

**Table No 17 Fourth Semester- Pharmaceutical Quality Assurance**

Code	Title	Theory	IA	Total Marks	Credit
23PMQA41	Journal Club		25	25	1
23PMQA42	Discussion / Presentation (Proposal Presentation)				16
23PMQA43	Research Work & Colloquium			400	3
Total				500	20

**11.2.5. M.Pharm in Pharmaceutical Regulatory Affairs**

**Table No 18 First Semester- Pharmaceutical Regulatory Affairs**

Code	Title	Theory	IA	Total Marks	Credit
23PMRA10	Good Regulatory Practices	75	25	100	4
23PMRA11	Documentation & Regulatory Writing	75	25	100	4
23PMRA12	Clinical Research Regulations	75	25	100	4
23PMRA13	Regulation & Legislation for Drugs & Cosmetics and IPR	75	25	100	4
23PMRA1P	Regulatory Affairs Practical -I	100	50	150	6
23PMRA1A	Seminar / Assignment			100	4
<b>Total</b>				<b>650</b>	<b>26</b>

**Table No 19 Second Semester- Pharmaceutical Regulatory Affairs**

Code	Title	Theory	IA	Total Marks	Credit
23PMRA20	Regulatory Aspects of Drugs & Cosmetics	75	25	100	4
23PMRA21	Regulatory Aspects of Herbal & Biologicals	75	25	100	4
23PMRA22	Regulatory Aspects of Medical Devices	75	25	100	4
23PMRA23	Regulatory Aspects of Food & Nutraceuticals	75	25	100	4
23PMRA2P	Regulatory Affairs Practical II	100	50	150	6
23PMRA2A	Seminar / Assignment			100	4
<b>Total</b>				<b>650</b>	<b>26</b>

**Table No. 20 Third Semester- Pharmaceutical Regulatory Affairs**

Code	Title	Theory	IA	Total Marks	Credit
23PMRA30	Research Methodology & Biostatistics*	75	25	100	4
23PMRA31	Journal Club		25	25	1
23PMRA32	Discussion / Presentation (Proposal Presentation)		50	50	2
23PMRA33	Research Work		350	350	14
<b>Total</b>				<b>525</b>	<b>21</b>

\* Non-University Examination

**Table No 21 Fourth Semester- Pharmaceutical Regulatory Affairs**

Code	Title	Theory	IA	Total Marks	Credit
23PMRA40	Journal Club		25	25	1
23PMRA41	Discussion / Presentation (Proposal Presentation)				16

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Code	Title	Theory	IA	Total Marks	Credit
23PM RA42	Research Work & Colloquium			400	3
Total				500	20

#### 11.2.6. M.Pharm in Pharmacology

**Table No 22 First Semester- Pharmacology**

Code	Title	Theory	IA	Total Marks	Credit
23PMPL10	Modern Pharmaceutical Analytical Techniques	75	25	100	4
23PMPL11	Adv. Pharmacology	75	25	100	4
23PMPL12	Pharmacological and Toxicological Screening Methods-I	75	25	100	4
23PMPL13	Cellular & Molecular Pharmacology	75	25	100	4
23PMPL1P	Pharmacology Practical -I	100	50	150	6
23PMPL1A	Seminar / Assignment			100	4
Total				650	26

**Table No 23 Second Semester- Pharmacology**

Code	Title	Theory	IA	Total Marks	Credit
23PMPL20	Adv. Pharmacology II	75	25	100	4
23PMPL21	Pharmacological & Toxicological Screening Methods II	75	25	100	4
23PMPL22	Principle of Drug Discovery	75	25	100	4
23PMPL23	Clinical Research and Pharmacovigilance	75	25	100	4
23PMPL2P	Pharmacological Practical II	100	50	150	6
23PMPL2A	Seminar / Assignment			100	4
Total				650	26

**Table No 24 Third Semester- Pharmacology**

Code	Title	Theory	IA	Total Marks	Credit
23PMPL30	Research Methodology & Biostatistics*	75	25	100	4
23PMPL31	Journal Club		25	25	1
23PMPL32	Discussion / Presentation (Proposal Presentation)		50	50	2
23PMPL33	Research Work		350	350	14
Total				525	21

\* Non-University Examination



**Table No 25 Fourth Semester- Pharmacology**

Code	Title	Theory	IA	<b>Total Marks</b>	<b>Credit</b>
23PMPL40	Journal Club		25	25	1
23PMPL41	Discussion / Presentation (Proposal Presentation)				16
23PMPL42	Research Work & Colloquium			400	3
<b>Total</b>				<b>500</b>	<b>20</b>

**11.2.7. M.Pharm in Pharmacognosy****Table No 26 First Semester- Pharmacognosy**

Code	Title	Theory	IA	<b>Total Marks</b>	<b>Credit</b>
23PMPG10	Modern Pharmaceutical Analytical Techniques	75	25	100	4
23PMPG11	Adv. Pharmacognosy I	75	25	100	4
23PMPG12	Phytochemistry	75	25	100	4
23PMPG13	Industrial Pharmacognostical Technology	75	25	100	4
23PMPG1P	Pharmacognosy Practical -I	100	50	150	6
23PMPG1A	Seminar / Assignment			100	4
<b>Total</b>				<b>650</b>	<b>26</b>

**Table No 27 Second Semester- Pharmacognosy**

Code	Title	Theory	IA	<b>Total Marks</b>	<b>Credit</b>
23PMPG20	Medicinal Plant Biotechnology	75	25	100	4
23PMPG21	Adv Pharmacognosy II	75	25	100	4
23PMPG22	Indian System of Medicine	75	25	100	4
23PMPG23	Herbal Cosmetics	75	25	100	4
23PMPG2P	Pharmacognosy Practical II	100	50	150	6
23PMPG2A	Seminar / Assignment			100	4
<b>Total</b>				<b>650</b>	<b>26</b>

**Table No 28 Third Semester- Pharmacognosy**

Code	Title	Theory	IA	<b>Total Marks</b>	<b>Credit</b>
23PMPG30	Research Methodology & Biostatistics*	75	25	100	4
23PMPG31	Journal Club		25	25	1
23PMPG32	Discussion / Presentation (Proposal Presentation)		50	50	2
23PMPG33	Research Work		350	350	14
<b>Total</b>				<b>525</b>	<b>21</b>

\* Non-University Examination

**Table No 29 Fourth Semester- Pharmacognosy**

Code	Title	Theory	IA	Total Marks	Credit
23PMPG40	Journal Club		25	25	1
23PMPG41	Discussion / Presentation (Proposal Presentation)				16
23PM PG42	Research Work & Colloquium			400	3
Total				500	20

**11.2.8. M.Pharm in Pharmaceutical Technology****Table No 30 First Semester- Pharmaceutical Technology**

Code	Title	Theory	IA	Total Marks	Credit
23PMPT10	Modern Pharmaceutical Analytical Techniques	75	25	100	4
23PMPT11	Biopharmaceutics & Pharmacokinetics	75	25	100	4
23PMPT12	Advanced Physical Pharmaceutics	75	25	100	4
23PMPT13	Modern Pharmaceutical Technology I	75	25	100	4
23PMPT1P	Pharmaceutical Technology Practical	100	50	150	6
23PMPT1A	Seminar / Assessment			100	4
Total				650	26

**Table No 31 Second Semester- Pharmaceutical Technology**

Code	Title	Theory	IA	Total Marks	Credit
23PMPT20	IPR & Drug Regulatory Affairs	75	25	100	4
23PMPT21	Screening Methods & Clinical Research	75	25	100	4
23PMPT22	Advances in Drug Delivery System	75	25	100	4
23PMPT23	Modern Pharmaceutical Technology II	75	25	100	4
23PMPT24	Pharmaceutical Technology Practical II	100	50	150	6
23PMPT2A	Seminar / Assignment			100	4
Total				650	26

**Table No 32 Third Semester- Pharmaceutical Technology**

Code	Title	Theory	IA	Total Marks	Credit
23PMPT30	Research Methodology & Biostatistics*	75	25	100	4
23PMPT31	Journal Club		25	25	1
23PMPT32	Discussion / Presentation (Proposal Presentation)		50	50	2

Code	Title	Theory	IA	Total Marks	Credit
23PMPT33	Research Work		350	350	14
Total				525	21

\* Non-University Examination

**Table No 33 Fourth Semester – Pharmaceutical Technology**

Code	Title	Theory	IA	Total Marks	Credit
23PMPT40	Journal Club		25	25	1
23PMPT41	Discussion / Presentation (Proposal Presentation)				16
23PMPT42	Research Work & Colloquium			400	3
Total				500	20

**Table No 34 Semester wise credits distribution**

Semester	Credit Points
I	26
II	26
III	21
IV	20
Extracurricular / Co-curricular activities	02*
Total credit points for the program	93 / 95

**11.2. Credit structure:** The University shall follow the Credit Based Semester System. 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/extracurricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week.

**11.2.1. Credit assignment: Theory and Laboratory courses:** The subjects of studies are broadly classified as Theory and Practical and consists of lecture (L) and / or tutorial (T) hours, and Practical (P) courses consist of hours spent in the laboratory. Credits (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and tutorial hours, and a multiplier of half (1/2) for practical (laboratory) hours. Thus, for example, a theory course having three lectures and one tutorial per week throughout the semester carries a credit of 4. Similarly, a practical having four laboratory hours per week throughout semester carries a credit of 2.

**12 Plan of Studies:** A student admitted into 1<sup>st</sup> year of M.Pharm Course shall be required to study for two years consisting of 4 semesters.

**12.1. Semester (Odd / Even):** Each semester shall consist of not less than 100 working days. The Odd Semesters shall be conducted from the month of June / July to November / December and the Even Semesters shall be conducted from December / January to May / June in every calendar year. However, it may change as per enrolment to the course in the year.

There shall be two seminar presentations during 1<sup>st</sup> year First Semester and Second Semester. For seminar, a student under the supervision of a eligible faculty member, shall collect the literature on a topic and critically review the literature and submit it to the Department in a report form and shall make an oral presentation before the Departmental Committee. The Departmental Committee consists of Head of the Department, supervisor and two other senior faculty members of the department. For each Seminar there will be only internal evaluation for 100 marks. A candidate has to secure a minimum of 50% to be declared successful.

There shall be a Comprehensive Viva-Voce in 2<sup>nd</sup> year and in 3<sup>rd</sup> Semester. The **Comprehensive Viva-Voce** will be conducted by a Committee consisting of Head of the Department and two Senior Faculty members of the Department. The Comprehensive Viva-Voce is aimed to assess the students' understanding in various subjects he/she studies during the course of study. The Comprehensive Viva-Voce is valued for 100 marks by the Committee. There are no internal marks for the Comprehensive Viva-Voce.

**13. Scheme of Continuous Internal Assessments (CIA), Practicals and passing criteria:**

**13.1. Internal assessment:** Continuous mode: The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below. A candidate shall be required to secure 50% both in theory and practical, 50% in Continuous Internal Assessment and Practical is necessary.

**Table-1: Scheme for awarding internal assessment: Continuous mode**

**Table No 35 Internal Assessment (Theory & Practical)**

Theory		
Attendance (Refer Clause 10 of Regulation)	4	2
Academic activities (Assignment, Group Discussion & Seminar)	3	1.5
Student Teacher Interaction	3	1.5
<b>Total</b>	<b>10</b>	<b>5</b>
Practical		
Attendance	2	
Practical Records, and Viva Voce	3	
<b>Total</b>	<b>5</b>	

**14. Eligibility criterions for appearing University Examinations:**

A candidate shall be eligible to carry forward all the courses if a s/he fulfills the following criterions and hereafter prescribed under Regulation 18.1.

In addition,

- (i) Attended 75 % theory and 80% practical classes, and
- (ii) Not been debarred for any objectionable mis-conduct or malpractice by the Institution, and University.

**15. Examinations:** The End Term University Theory Examinations shall be conducted at the end of each Semester (s) (Odd / Even). The University shall conduct examinations for theory (Regular / Back) subjects, and college / institution shall conduct examinations (Theory \* Practical) for Non-University subjects. A candidate failed in a theory subject, if eligible can appear for the failed subjects of lower semester (s) as per Odd and Even Semester examinations conducted by the University as per Academic Calendar.



**16. Registration:** A candidate shall only be eligible to register for a Semester Examination when s/he has fulfilled college and corresponding university criterions. S/he shall be required to register with the University for 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, & 4<sup>th</sup> Semester as Regular student, and in case of failure in a paper (Theory / Practical), will be required to re-register as Back Papers in the component only.

The College / Institution shall retain 15% of the University fees towards Examination Centres expenditure. However, such retention of fees @ 15% shall not be applicable in case of Back Paper Examinations.

**17. Passing Heads:** Passing head for core theory and Practical shall be 50%. Core theory consists of (i) Theory 75 Marks, and (ii) Continuous Internal Assessment 25 Marks. A candidate is required to secure 50% marks out of 100 Marks.

Further, in the event, a candidate failed in either theory, or practical, it shall be treated as "Fail" in the whole core theory and attached Practical subject, but s/he shall be required to re-appear either theory and practical as back paper (s).

**18. Promotion to Higher Semester, Re-admission after discontinuation or Break of Study into the Course:**

**i) Promotion & Carry over benefit:** A candidate shall be eligible to be promoted to 3<sup>rd</sup> Semester if s/he has fulfilled college level attendance, appeared Continuous Internal Assessments, registered, appeared and passed in minimum four (04) numbers of theory with Practical subjects of preceding University's Odd and / Even Semester Examinations. However, s/he must have registered with the University for both Odd and Even Semesters.

**ii) A candidate will be allowed for re-admission if s/he did / could not register for two consecutive semesters examinations.**

Provided, if the candidate is eligible, and has permissible tenure (2 + 2 Years) to complete the remaining semesters.

Provided further, s/he shall be required to apply in the prescribed form with fees as prescribed for the purpose, and shall be admitted in the course in force (Dual Syllabus).

**19. Supplementary Examination:** There shall be no supplementary examination in respect of M.Pharm Course.

**20. Classification of successful candidates and award of Degree:** The University shall adopt system of awarding grades and CGPA under Choice Based Credit Semester (CBCS) System for this course.

No division or class shall be awarded to a student after successful completion of the courses of studies, and required credit for award of **Master in Pharmacy (Specialization) Degree**.

**20.1.** The University will follow the absolute grading system, where the marks are compounded to grades based on pre-determined class intervals.

**20.2.** The University shall award Degrees to the successful candidates after fulfilment of prescribed minimum credit requirements in the form of Grade Points.



**20.3. Minimum Credit Requirements:** The requirements as prescribed by the Pharmacy Council of India is as under;

(i) The minimum credit points required for award of a M. Pharm. degree is 95. These credits are divided into Theory courses, Tutorials, Practical, and Project over the duration of four semesters. The credits are distributed semester-wise.

Provided, after successful completion of prescribed courses of studies, and required credits, the student shall be awarded M.Pharma Degrees as mentioned hereafter.

M. Pharm (Pharmaceutics)
M. Pharm (Pharmaceutical Chemistry)
M. Pharm (Pharmaceutical Analysis)
M. Pharm (Pharmaceutical Quality Assurance)
M. Pharm (Pharmaceutical Regulatory Affairs)
M. Pharm (Pharmacology)
M. Pharm (Pharmacognosy)
M. Pharm (Pharmaceutical Technology)

**20.4. Formula for calculation of grade point to percentage, Semester Grade Point Average (SCPA), and Cumulative Grade Point Average (CGPA):** The University shall reflect the equivalent percentage of marks of the CGPA earned by a student and formulas for calculation of Percentage Conversion, Semester Grade Point Average (SCPA), and Cumulative Grade Point Average (CGPA) in the Annual Grade Sheets.

**20.5.** The 6 -point grading system with the following letter grades will be followed:

**Table No 36 6 -Point Grading System**

Point	Grade	Grade Point Per Credit
1	O (Outstanding)	10
2	E (Excellent)	09
3	A (Very Good)	08
4	B (Good)	07
5	C (Fair / Average)	06
6	F (Fail) / RA (Reappear)	0
	AB (Absent)	0
	NC (Not completed)	0
	RC (< 50% in attendance or in Internal Assessment)	

**20.6** A student obtaining Grade F/RA will be considered failed and will require reappearing in the examination.

**20.7** Candidates with NC grading are those detained in a course (s); while RC indicate student not fulfilling the minimum criteria for academic progress or less than 50% attendance or less than 50% in internal assessments (IA). Registrations of such students for the respective courses shall

be treated as cancelled. If the course is a core course, the candidate has to re-register and repeat the course when it is offered next time with regular students as back papers.

#### 20.8. CBCS Grading System - Marks Equivalence: Grades and Grade Points.

**Table No 37 Grades and Grade Points**

Grade	Grade Point	Marks
<b>O (Outstanding)</b>	10	>90 (Greater than 90 & less than equal to 100)
<b>E (Excellent)</b>	09	80<=M<90 (Greater than 80 & less than equal to 90)
<b>A (Very Good)</b>	08	70<=M<80 (Greater than 70 & less than equal to 80)
<b>B (Good)</b>	07	60<=M<70 (Greater than 60 & less than equal to 70)
<b>C (Above Average)</b> (Passing criteria for BPT)	06	50<=M<60 (Greater than equal to 50 & less than equal to 60)
<b>F (Fail) / RA (Reappear)</b>	0	M<50 Less than 50
<b>AB (Absent)</b>	0	--
<b>NC (Not completed)</b>	0	--
<b>RC (Repeat the Course)</b>	0	0

#### 20.9. Computation of SGPA and CGPA

(i) SGPA

$$SGPA = \frac{\sum_{i=1}^n c_i g_i}{\sum_{i=1}^n c_i}$$

n= number of subjects registered and cleared for the semester

Ci= number of credits allotted to a particular subject,

gi= the grade points carried by the letter corresponding to the grade awarded to the student for the subject

(ii) SGPA will be rounded off to the second place of decimal and recorded as such. The SGPA would indicate the performance of the student in the semester to which it refers.

(iii) Start by from second semester at the end of each semester "S", a Cumulative Grade Point Average (CGPA) will be computed for every student as follows:

$$CGPA = \frac{\sum_{i=1}^m c_i g_i}{\sum_{i=1}^m c_i}$$

Where "m" is the total number of subjects the student has registered and cleared from the first semester onwards up to and including the Semester "S". Ci is the number of credits allotted to a particular subject. "ci" and "gi" is the grade point carried by the letter corresponding to the grade

awarded to the student for the subject "si". CGPA will be rounded off to the second place of decimal and recorded as such..

The CGPA would indicate the cumulative performance of the student from the first semester up to the end of the semester to which it refers.

**20.10 Conversion of CGPA into Percentage of marks:** In case of a specific query by students / employers regarding conversion of CGPA into percentage of marks, the following formula will be adopted for notional conversion of CGPA into percentage of marks.

Formula: % Marks = CGPA x 0.5.

**21. Academic Record and Evaluation Guidelines:** The academic records, and guidelines as prescribed in the PCI Regulation (Including Specialization covered in AICTE), vis a vis University shall be strictly followed mutatis mutandis.

**21.1.** The performance of the candidate in each semester shall be evaluated subject wise, with a maximum of 100 marks for theory and 100 marks for Practicals, on the basis of Internal Evaluation and End Semester Examination.

**21.1.2.** For the theory subjects 75 marks shall be awarded based on the performance in the End Semester Examination, 25 marks shall be awarded based on the Internal Evaluation. The internal evaluation shall be made based on the better of the marks secured in the two Mid Term-Examinations conducted one in the middle of the Semester and the other immediately after the completion of instruction. Each mid-term examination shall be conducted for a duration of 120 minutes with 4 questions to be answered out of 6 questions.

**21.1.3.** For practical subjects, 75 marks shall be awarded based on the performance in the End Semester Examinations, 25 marks shall be awarded based on the day-to-day performance as Internal Marks.

**21.2.** Every candidate shall be required to submit Project / Dissertation Report after taking up a topic approved by the Project Review Committee. However, the Committee shall record that this topic is original, and neither any Project Report has been submitted under the same in the College / Institution title to the University during last five years by the College.

**21.2.1.** A Project Review Committee (PRC) shall be constituted with Principal as chairperson Heads of all the Departments which are offering the M.Pharm programs and two other senior faculty members.

**21.2.2.** **Registration of Project Work:** A candidate is permitted to register for the project work after satisfying the attendance requirement of all the subjects (theory and practical subjects).

**21.2.3.** After satisfying 21.2.2, a candidate has to submit, in consultation with his project supervisor, the title, objective and plan of action of his project work to the Departmental Committee for its approval. Only after obtaining the approval of Departmental Committee the student can initiate the Project work. The student wise Topic of the Research shall be submitted to the University in the beginning of the 3<sup>rd</sup> Semester, and mandatory.

**21.2.4.** If a candidate wishes to change his supervisor or topic of the project he can do so with approval of Departmental Committee. However, the Departmental Committee shall examine whether the change of topic / supervisor leads to a major change of his initial plans of project proposal. If so, his date of registration for the project work starts from the date of change of Supervisor or topic as the case may be.



21.2.5 A candidate shall submit status report (in a bound-form) in two stages at least with a gap of 3 months between them.

21.2.6 The work on the project shall be initiated in the beginning of the second year and the duration of the project is for two semesters. A candidate is permitted to submit Project Report only after successful completion of theory and practical courses with the approval of PRC not earlier than 40 weeks from the date of registration of the project work. For the approval of PRC the candidate shall submit the draft copy of Project Report to the Principal (through Head of the Department) and shall make an oral presentation before the PRC. Plagiarism rules in respect of the Project Report no exceeding 20% shall be ensured by the PRC.

21.2.7 Four copies of the Project Report certified by the supervisor shall be submitted to the College / Institute which includes a copy of the University.

21.2.8 The Project Report shall be adjudicated by one examiner appointed / approved by the University. For this, Principal of the College / Institution shall submit a panel of 3 examiners (preferably from sister college / University) other than parent affiliating university, who are eminent in that field with the help of the concerned guide and head of the department. However, the University can appoint an examiner from beyond the names submitted by the College / Institution.

21.2.9 If the report of the examiner is not favourable, the candidate shall revise and resubmit the Project Report, in the time frame as described by PRC. If the report of the examiner is unfavourable again, the Project Report shall be summarily rejected.

21.2.10 The component wise marks awarded as per the Structure shall be submitted to the University with the soft and hard copy of the Project Report for corresponding Grading in the component.

22. **Withdrawal from Course, Struck off from the rolls of the College / Institution Admitted and withdrawal of Degree:**

22.1. The University upon application, shall cancel the registration number issued to the candidate, and issue migration certificate on payment of fee to be prescribed by the University.

22.2. A student's name will be struck off from the rolls of the College / Institution in any of the following cases if he/ she does not qualify / pass:

- i) If s/he registered and did / could not appear for 1<sup>st</sup> & 2<sup>nd</sup> Semester University Examinations for two consecutive years,
- ii) If s/he did not register for two consecutive years for any semester examinations during regular course of studies.

22.3. Any student found to have obtained admission in fraudulent manner, if the documents furnished for gaining admission by any student are found to be forged/ false/ doctored at any stage of study.

22.4. **Tenure of the Course:** The tenure for the completion of the Course shall be fixed as double the actual duration of the Course. In case, a student did / could not complete the course within the prescribed tenure, his / her name shall be cancelled from the university list of registered students.

23. **Medal (s), Award (s) & Prize (s):** The University shall notify as and when decided by the Executive Board from time to time.



Registration no:

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Total Number of Pages: (XX)	Course: M Pharm
	SUB_CODE:

(---<sup>th</sup>) Year Odd / Even Sem (Regular/ Back) Examination: \_\_\_\_\_

SUBJECT NAME:

BRANCH:

Max Time: 2 1/2 Hours	Sitting: 1 <sup>st</sup> 10.00 AM to 12.30 PM
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Max Marks: 75

Q. CODE: (To be allotted by the University)

The figures in the right-hand margin indicate marks.

Part A

Q 1	Objective Type (Answer All)	(10 x 02 Marks)
a)		
b)		
c)		
d)		
e)		
f)		
g)		
h)		
i)		
j)		
Q 2	Short Answer Questions (Focused) (Answer any Seven out of Nine))	(7 x 05 Marks)
a)		
b)		
c)		
d)		
e)		
f)		
g)		
h)		
i)		
	(Answer Any Two)	
Q 3	Long Answer Question	(1 X 10 Marks)
Q 4	Long Answer Question	(1 X 10 Marks)
Q 5	Long Answer Question	(1 X 10 Marks)

