

SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA
(Sponsored by the Exhibition Society), Tarnaka Secunderabad)
Affiliated to Osmania university, Approved by AICTE & PCI
NBA Accredited B Pharmacy Course

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya is committed to a transparent and robust evaluation system for both internal and external examinations. Affiliated with Osmania University, we strictly adhere to their established norms for conducting internal exams. To ensure clarity and consistency, Osmania University publishes an annual academic calendar outlining the academic year schedule, semester end dates, and other relevant examination details. The Principal and the College Examination branch work together to provide them with all necessary information and guidelines regarding the examination scheme, passing criteria, and the evaluation process followed within the college. Furthermore, a dedicated Examination branch comprised of senior faculty members has been established to handle all examination-related tasks, including preparation, assigning, and coordinating all academic activities. This comprehensive approach ensures transparency, and effective communication throughout the evaluation process, fostering trust within the academic community.

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12/6/2023

Examination Branch

1. The Examination branch is headed by the Principal and Chief Superintendent of Examinations with in-charge examinations, additional In-charge of examinations and supporting staff.
2. The prime responsibility of the Examination branch is to conduct all examinations in coordination with Osmania University.
3. The In-charge Examinations supports the Principal in regard to all examination matters, any information either received or required to be sent to the University is being dealt with in the Exam Branch.
4. The grievances of students related to internal and external examination are addressed by examination branch in a well-defined manner in an appropriate time period.

Examination branch is constituted as follows:

Principal and Chief Superintendent of Examinations: Dr T. Sarita Jyostna

In-charge Examinations: Dr S. Anuradha Bai

Additional In-charge of Examination: 1. Mrs S Muni Sireesha

2. Mrs N.Indira Rani

Examination Grievance cell members: 1. Mrs Rajeswari

2. Mrs Divya teja

3. Mrs Ramya Vigneswari

Non-Teaching Staff: 1. Mrs B. Jaya Sree

2. Mrs Manjula Rani

Attender: Mrs Swarna



T. Sarityosh
PRINCIPAL
Sarojini Naidu Vanita Pharmacy Maha Vidyalaya

F. S.
PRINCIPAL
Sarojini Naidu Vanita Pharmacy Maha Vidya
Vijayapuri Colony, S. Lalaguda, Tarna
Secunderabad-500 017.

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13/6/2022

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2. Mrs Manjula Rani

Attender: Mrs Swarna



T. Sarityosh
PRINCIPAL

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Vijayapuri Colony, S.Lalaguda, Tarnaka
Secunderabad-500 017.

[Signature]
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14/6/2021

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Examination Grievance cell members: 1. Mrs Rajeswari

2. Mrs Divya teja

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2. Mrs Manjula Rani

Attender: Mrs Swarna



T. Sarathyosh

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15/6/2020

Examination Branch

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Principal and Chief Superintendent of Examinations: Dr V. Jyothi

In-charge Examinations: Dr S. Anuradha Bai

Additional In-charge of Examination: 1. Mrs Rajeswari

2. Mrs N.Indira Rani

Examination Grievance cell members: 1. Mrs S Muni Shireesha

2. Mrs Divya teja

3. Mrs R Meenakshi

Non-Teaching Staff: 1. Mrs C. Manjulatha

2. Mrs Manjula Rani

Attender: Mrs Swarna



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10/6/2019

Examination Branch

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Additional In-charge of Examination: 1. Mrs Leemol shaju

2. Mrs N.Indira Rani

Examination Grievance cell members: 1. Mrs M Rajeshwari

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3. Mrs R Meenakshi

Non-Teaching Staff: 1. Mrs C. Manjulatha

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Attender: Mrs R Chandrakala



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Estd. 1997

**PCI, CBCS & NON-CBCS Rules &
Regulations
for the Bachelor of Pharmacy
(B. Pharm) Course**

Pharmacy Council of India
New Delhi

Rules & Syllabus for the Bachelor of Pharmacy (B. Pharm) Course

[Framed under Regulation 6, 7 & 8 of the Bachelor of
Pharmacy (B. Pharm) course regulations 2014]



CHAPTER- I: REGULATIONS

1. Short Title and Commencement

These regulations shall be called as “The Revised Regulations for the B. Pharm. Degree Program (CBCS) of the Pharmacy Council of India, New Delhi”. They shall come into effect from the Academic Year 2016-17. The regulations framed are subject to modifications from time to time by Pharmacy Council of India.

2. Minimum qualification for admission

2.1 First year B. Pharm:

Candidate shall have passed 10+2 examination conducted by the respective state/central government authorities recognized as equivalent to 10+2 examination by the Association of Indian Universities (AIU) with English as one of the subjects and Physics, Chemistry, Mathematics (P.C.M) and or Biology (P.C.B / P.C.M.B.) as optional subjects individually. Any other qualification approved by the Pharmacy Council of India as equivalent to any of the above examinations.

2.2. B. Pharm lateral entry (to third semester):

A pass in D. Pharm. course from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act.

3. Duration of the program

The course of study for B.Pharm shall extend over a period of eight semesters (four academic years) and six semesters (three academic years) for lateral entry students. The curricula and syllabi for the program shall be prescribed from time to time by Pharmacy Council of India, New Delhi.

4. Medium of instruction and examinations

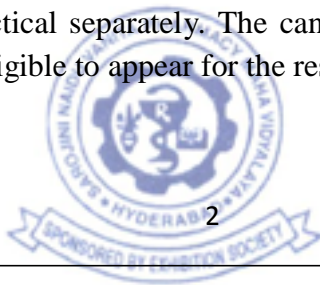
Medium of instruction and examination shall be in English.

5. Working days in each semester

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.

6. Attendance and progress

A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations.



7. Program/Course credit structure

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 for each of these activities per week.

7.1. Credit assignment

7.1.1. Theory and Laboratory courses

Courses are broadly classified as Theory and Practical. Theory courses consist 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.

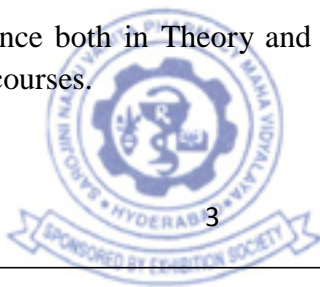
7.2. Minimum credit requirements

The minimum credit points required for award of a B. Pharm. degree is 208. These credits are divided into Theory courses, Tutorials, Practical, Practice School and Project over the duration of eight semesters. The credits are distributed semester-wise as shown in Table IX. Courses generally progress in sequences, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester-wise schedule of courses given in the syllabus.

The lateral entry students shall get 52 credit points transferred from their D. Pharm program. Such students shall take up additional remedial courses of 'Communication Skills' (Theory and Practical) and 'Computer Applications in Pharmacy' (Theory and Practical) equivalent to 3 and 4 credit points respectively, a total of 7 credit points to attain 59 credit points, the maximum of I and II semesters.

8. Academic work

A regular record of attendance both in Theory and Practical shall be maintained by the teaching staff of respective courses.



9. Course of study

The course of study for B. Pharm shall include Semester Wise Theory & Practical as given in Table – I to VIII. The number of hours to be devoted to each theory, tutorial and practical course in any semester shall not be less than that shown in Table – I to VIII.

Table-I: Course of study for semester I

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP101T	Human Anatomy and Physiology I– Theory	3	1	4
BP102T	Pharmaceutical Analysis I – Theory	3	1	4
BP103T	Pharmaceutics I – Theory	3	1	4
BP104T	Pharmaceutical Inorganic Chemistry – Theory	3	1	4
BP105T	Communication skills – Theory *	2	-	2
BP106RBT BP106RMT	Remedial Biology/ Remedial Mathematics – Theory*	2	-	2
BP107P	Human Anatomy and Physiology – Practical	4	-	2
BP108P	Pharmaceutical Analysis I – Practical	4	-	2
BP109P	Pharmaceutics I – Practical	4	-	2
BP110P	Pharmaceutical Inorganic Chemistry – Practical	4	-	2
BP111P	Communication skills – Practical*	2	-	1
BP112RBP	Remedial Biology – Practical*	2	-	1
Total		32/34[§]/36[#]	4	27/29[§]/30[#]

[#]Applicable ONLY for the students who have studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB)course.

[§]Applicable ONLY for the students who have studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM)course.

* Non University Examination (NUE)



Table-II: Course of study for semester II

Course Code	Name of the course	No. of hours	Tutorial	Credit points
BP201T	Human Anatomy and Physiology II – Theory	3	1	4
BP202T	Pharmaceutical Organic Chemistry I – Theory	3	1	4
BP203T	Biochemistry – Theory	3	1	4
BP204T	Pathophysiology – Theory	3	1	4
BP205T	Computer Applications in Pharmacy – Theory *	3	-	3
BP206T	Environmental sciences – Theory *	3	-	3
BP207P	Human Anatomy and Physiology II –Practical	4	-	2
BP208P	Pharmaceutical Organic Chemistry I– Practical	4	-	2
BP209P	Biochemistry – Practical	4	-	2
BP210P	Computer Applications in Pharmacy – Practical*	2	-	1
Total		32	4	29

*Non University Examination (NUE)

Table-III: Course of study for semester III

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP301T	Pharmaceutical Organic Chemistry II – Theory	3	1	4
BP302T	Physical Pharmaceutics I – Theory	3	1	4
BP303T	Pharmaceutical Microbiology – Theory	3	1	4
BP304T	Pharmaceutical Engineering – Theory	3	1	4
BP305P	Pharmaceutical Organic Chemistry II – Practical	4	-	2
BP306P	Physical Pharmaceutics I – Practical	4	-	2
BP307P	Pharmaceutical Microbiology – Practical	4	-	2
BP 308P	Pharmaceutical Engineering –Practical	4	-	2
Total		28	4	24



Table-IV: Course of study for semester IV

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP401T	Pharmaceutical Organic Chemistry III– Theory	3	1	4
BP402T	Medicinal Chemistry I – Theory	3	1	4
BP403T	Physical Pharmaceutics II – Theory	3	1	4
BP404T	Pharmacology I – Theory	3	1	4
BP405T	Pharmacognosy and Phytochemistry I– Theory	3	1	4
BP406P	Medicinal Chemistry I – Practical	4	-	2
BP407P	Physical Pharmaceutics II – Practical	4	-	2
BP408P	Pharmacology I – Practical	4	-	2
BP409P	Pharmacognosy and Phytochemistry I – Practical	4	-	2
Total		31	5	28

Table-V: Course of study for semester V

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP501T	Medicinal Chemistry II – Theory	3	1	4
BP502T	Industrial PharmacyI– Theory	3	1	4
BP503T	Pharmacology II – Theory	3	1	4
BP504T	Pharmacognosy and Phytochemistry II– Theory	3	1	4
BP505T	Pharmaceutical Jurisprudence – Theory	3	1	4
BP506P	Industrial PharmacyI – Practical	4	-	2
BP507P	Pharmacology II – Practical	4	-	2
BP508P	Pharmacognosy and Phytochemistry II – Practical	4	-	2
Total		27	5	26



Table-VI: Course of study for semester VI

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP601T	Medicinal Chemistry III – Theory	3	1	4
BP602T	Pharmacology III – Theory	3	1	4
BP603T	Herbal Drug Technology – Theory	3	1	4
BP604T	Biopharmaceutics and Pharmacokinetics – Theory	3	1	4
BP605T	Pharmaceutical Biotechnology – Theory	3	1	4
BP606T	Quality Assurance –Theory	3	1	4
BP607P	Medicinal chemistry III – Practical	4	-	2
BP608P	Pharmacology III – Practical	4	-	2
BP609P	Herbal Drug Technology – Practical	4	-	2
Total		30	6	30

Table-VII: Course of study for semester VII

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP701T	Instrumental Methods of Analysis – Theory	3	1	4
BP702T	Industrial PharmacyII – Theory	3	1	4
BP703T	Pharmacy Practice – Theory	3	1	4
BP704T	Novel Drug Delivery System – Theory	3	1	4
BP705P	Instrumental Methods of Analysis – Practical	4	-	2
BP706PS	Practice School*	12	-	6
Total		28	5	24

* Non University Examination (NUE)



Table-VIII: Course of study for semester VIII

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP801T	Biostatistics and Research Methodology	3	1	4
BP802T	Social and Preventive Pharmacy	3	1	4
BP803ET	Pharma Marketing Management	3 + 3 = 6	1 + 1 = 2	4 + 4 = 8
BP804ET	Pharmaceutical Regulatory Science			
BP805ET	Pharmacovigilance			
BP806ET	Quality Control and Standardization of Herbals			
BP807ET	Computer Aided Drug Design			
BP808ET	Cell and Molecular Biology			
BP809ET	Cosmetic Science			
BP810ET	Experimental Pharmacology			
BP811ET	Advanced Instrumentation Techniques			
BP812ET	Dietary Supplements and Nutraceuticals			
BP813PW	Project Work	12	-	6
Total		24	4	22

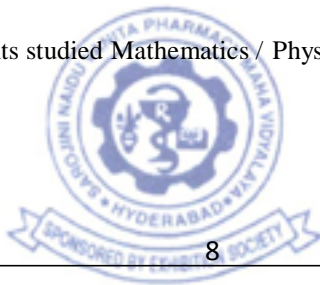
Table-IX: Semester wise credits distribution

Semester	Credit Points
I	27/29 [§] /30 [#]
II	29
III	26
IV	28
V	26
VI	26
VII	24
VIII	22
Extracurricular/ Co curricular activities	01*
Total credit points for the program	209/211[§]/212[#]

* The credit points assigned for extracurricular and or co-curricular activities shall be given by the Principals of the colleges and the same shall be submitted to the University. The criteria to acquire this credit point shall be defined by the colleges from time to time.

[§]Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics course.

[#]Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology course.



10. Program Committee

1. The B. Pharm. program shall have a Program Committee constituted by the Head of the institution in consultation with all the Heads of the departments.

2. The composition of the Program Committee shall be as follows:

A senior teacher shall be the Chairperson; One Teacher from each department handling B.Pharm courses; and four student representatives of the program (one from each academic year), nominated by the Head of the institution.

3. Duties of the Program Committee:

- i. Periodically reviewing the progress of the classes.
- ii. Discussing the problems concerning curriculum, syllabus and the conduct of classes.
- iii. Discussing with the course teachers on the nature and scope of assessment for the course and the same shall be announced to the students at the beginning of respective semesters.
- iv. Communicating its recommendation to the Head of the institution on academic matters.
- v. The Program Committee shall meet at least thrice in a semester preferably at the end of each Sessionalexam (Internal Assessment) and before the end semester exam.

11. Examinations/Assessments

The scheme for internal assessment and end semester examinations is given in Table – X.

11.1. End semester examinations

The End Semester Examinations for each theory and practical coursethrough semesters I to VIII shall be conducted by the university except for the subjects with asterix symbol (*) in table I and II for which examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.



Tables-X: Schemes for internal assessments and end semester examinations semester wise

Semester I

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP101T	Human Anatomy and Physiology I– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP102T	Pharmaceutical Analysis I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP103T	Pharmaceutics I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP104T	Pharmaceutical Inorganic Chemistry – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP105T	Communication skills – Theory *	5	10	1 Hr	15	35	1.5 Hrs	50
BP106RBT BP106RMT	Remedial Biology/ Mathematics – Theory*	5	10	1 Hr	15	35	1.5 Hrs	50
BP107P	Human Anatomy and Physiology – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP108P	Pharmaceutical Analysis I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP109P	Pharmaceutics I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP110P	Pharmaceutical Inorganic Chemistry – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP111P	Communication skills – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
BP112RBP	Remedial Biology – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
Total		70/75[§]/80[#]	115/125[§]/130[#]	23/24[§]/26[#] Hrs	185/200[§]/210[#]	490/525[§]/ 540[#]	31.5/33[§]/ 35[#] Hrs	675/725[§]/ 750[#]

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* Non University Examination (NUE)



Semester II

Course code	Name of the course	Internal Assessment			End Semester Exams		Total Marks	
		Continuous Mode	Sessional Exams		Total	Marks		Duration
			Marks	Duration				
BP201T	Human Anatomy and Physiology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP202T	Pharmaceutical Organic Chemistry I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP203T	Biochemistry – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP204T	Pathophysiology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP205T	Computer Applications in Pharmacy – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP206T	Environmental sciences – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP207P	Human Anatomy and Physiology II – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP208P	Pharmaceutical Organic Chemistry I– Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP209P	Biochemistry – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP210P	Computer Applications in Pharmacy – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
Total		80	125	20 Hrs	205	520	30 Hrs	725

* The subject experts at college level shall conduct examinations



Semester III

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP301T	Pharmaceutical Organic Chemistry II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP302T	PhysicalPharmaceuticsI –Theory	10	15	1 Hr	25	75	3 Hrs	100
BP303T	Pharmaceutical Microbiology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP304T	Pharmaceutical Engineering – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP305P	Pharmaceutical Organic Chemistry II – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP306P	Physical Pharmaceutics I – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP307P	Pharmaceutical Microbiology – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP308P	Pharmaceutical Engineering – Practical	5	10	4 Hr	15	35	4 Hrs	50
Total		60	100	20	160	440	28Hrs	600



Semester IV

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP401T	Pharmaceutical Organic Chemistry III- Theory	10	15	1 Hr	25	75	3 Hrs	100
BP402T	Medicinal Chemistry I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP403T	Physical Pharmaceutics II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP404T	Pharmacology I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP405T	Pharmacognosy I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP406P	Medicinal Chemistry I – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP407P	Physical Pharmaceutics II – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP408P	Pharmacology I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP409P	Pharmacognosy I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
Total		70	115	21 Hrs	185	515	31 Hrs	700



Semester V

Course code	Name of the course	Internal Assessment			End Semester Exams		Total Marks	
		Continuous Mode	Sessional Exams		Total	Marks		Duration
			Marks	Duration				
BP501T	Medicinal Chemistry II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP502T	Industrial PharmacyI– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP503T	Pharmacology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP504T	Pharmacognosy II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP505T	Pharmaceutical Jurisprudence – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP506P	Industrial PharmacyI– Practical	5	10	4 Hr	15	35	4 Hrs	50
BP507P	Pharmacology II – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP508P	Pharmacognosy II – Practical	5	10	4 Hr	15	35	4 Hrs	50
Total		65	105	17 Hr	170	480	27 Hrs	650



Semester VI

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP601T	Medicinal Chemistry III – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP602T	Pharmacology III – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP603T	Herbal Drug Technology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP604T	Biopharmaceutics and Pharmacokinetics – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP605T	Pharmaceutical Biotechnology– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP606T	Quality Assurance– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP607P	Medicinal chemistry III – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP608P	Pharmacology III – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP609P	Herbal Drug Technology – Practical	5	10	4 Hrs	15	35	4 Hrs	50
Total		75	120	18 Hrs	195	555	30 Hrs	750



Semester VII

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP701T	Instrumental Methods of Analysis – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP702T	Industrial Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP703T	Pharmacy Practice – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP704T	Novel Drug Delivery System – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP705 P	Instrumental Methods of Analysis – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP706 PS	Practice School*	25	-	-	25	125	5 Hrs	150
Total		70	70	8Hrs	140	460	21 Hrs	600

* The subject experts at college level shall conduct examinations



Semester VIII

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP801T	Biostatistics and Research Methodology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP802T	Social and Preventive Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP803ET	Pharmaceutical Marketing – Theory	10 + 10 = 20	15 + 15 = 30	1 + 1 = 2 Hrs	25 + 25 = 50	75 + 75 = 150	3 + 3 = 6 Hrs	100 + 100 = 200
BP804ET	Pharmaceutical Regulatory Science – Theory							
BP805ET	Pharmacovigilance – Theory							
BP806ET	Quality Control and Standardization of Herbals – Theory							
BP807ET	Computer Aided Drug Design – Theory							
BP808ET	Cell and Molecular Biology – Theory							
BP809ET	Cosmetic Science – Theory							
BP810ET	Experimental Pharmacology – Theory							
BP811ET	Advanced Instrumentation Techniques – Theory							
BP812PW	Project Work	-	-	-	-	150	4 Hrs	150

Total	40	60	4 Hrs	100	450	16 Hrs	550
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11.2. Internal assessment: Continuous mode

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

Table-XI:Scheme for awarding internal assessment: Continuous mode

Theory		
Criteria	Maximum Marks	
Attendance (Refer Table – XII)	4	2
Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	3	1.5
Student – Teacher interaction	3	1.5
Total	10	5
Practical		
Attendance (Refer Table – XII)	2	
Based on Practical Records, Regular viva voce, etc.	3	
Total	5	

Table- XII: Guidelines for the allotment of marks for attendance

Percentage of Attendance	Theory	Practical
95 – 100	4	2
90 – 94	3	1.5
85 – 89	2	1
80 – 84	1	0.5
Less than 80	0	0

11.2.1. Sessional Exams

Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college(s). The scheme of question paper for theory and practical Sessional examinations is given below. The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in tables – X.

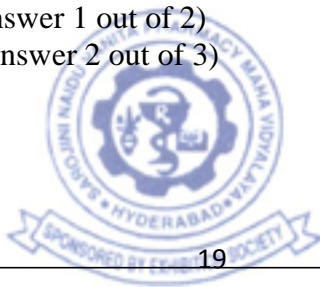
Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks.

Question paper pattern for theory Sessional examinations

For subjects having University examination

I. Multiple Choice Questions (MCQs)	=	10 x 1 = 10
OR		OR
Objective Type Questions (5 x 2) (Answer all the questions)	=	05 x 2 = 10
I. Long Answers (Answer 1 out of 2)	=	1 x 10 = 10
II. Short Answers (Answer 2 out of 3)	=	2 x 5 = 10

Total	=	30 marks



For subjects having Non University Examination

I. Long Answers (Answer 1 out of 2)	=	1 x 10 = 10
II. Short Answers (Answer 4 out of 6)	=	4 x 5 = 20

Total	=	30 marks

Question paper pattern for practical sessional examinations

I. Synopsis	=	10
II. Experiments	=	25
III. Viva voce	=	05

Total	=	40 marks

12. Promotion and award of grades

A student shall be declared PASS and eligible for getting grade in a course of B.Pharm. program if he/she secures at least 50% marks in that particular course including internal assessment. For example, to be declared as PASS and to get grade, the student has to secure a minimum of 50 marks for the total of 100 including continuous mode of assessment and end semester theory examination and has to secure a minimum of 25 marks for the total 50 including internal assessment and end semester practical examination.

13. Carry forward of marks

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified in 12, then he/she shall reappear for the end semester examination of that course. However his/her marks of the Internal Assessments shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

14. Improvement of internal assessment

A student shall have the opportunity to improve his/her performance only once in the Sessional exam component of the internal assessment. The re-conduct of the Sessional exam shall be completed before the commencement of next end semester theory examinations.

15. Re-examination of end semester examinations

Reexamination of end semester examinations shall be conducted as per the schedule given in table XIII. The exact dates of examinations shall be notified from time to time.



Table-XIII: Tentative schedule of end semester examinations

Semester	For Regular Candidates	For Failed Candidates
I, III, V and VII	November / December	May / June
II, IV, VI and VIII	May / June	November / December

Question paper pattern for end semester theory examinations

For 75 marks paper

- I. Multiple Choice Questions(MCQs) = 20 x 1 = 20
OR
Objective Type Questions (10 x 2) = 10 x 2 = 20
(Answer all the questions)
- II. Long Answers (Answer 2 out of 3) = 2 x 10 = 20
III. Short Answers (Answer 7 out of 9) = 7 x 5 = 35

Total = 75 marks

For 50 marks paper

- I. Long Answers (Answer 2 out of 3) = 2 x 10 = 20
II. Short Answers (Answer 6 out of 8) = 6 x 5 = 30

Total = 50 marks

For 35 marks paper

- I. Long Answers (Answer 1 out of 2) = 1 x 10 = 10
II. Short Answers (Answer 5 out of 7) = 5 x 5 = 25

Total = 35 marks

Question paper pattern for end semester practical examinations

- I. Synopsis = 5
II. Experiments = 25
III. Viva voce = 5

Total = 35 marks



16. Academic Progression:

No student shall be admitted to any examination unless he/she fulfills the norms given in 6. Academic progression rules are applicable as follows:

A student shall be eligible to carry forward all the courses of I, II and III semesters till the IV semester examinations. However, he/she shall not be eligible to attend the courses of V semester until all the courses of I and II semesters are successfully completed.

A student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of I, II, III and IV semesters are successfully completed.

A student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of I, II, III, IV, V and VI semesters are successfully completed.

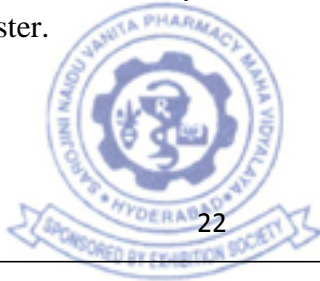
A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to VIII semesters within the stipulated time period as per the norms specified in 26.

A lateral entry student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of III and IV semesters are successfully completed.

A lateral entry student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of III, IV, V and VI semesters are successfully completed.

A lateral entry student shall be eligible to get his/her CGPA upon successful completion of the courses of III to VIII semesters within the stipulated time period as per the norms specified in 26.

Any student who has given more than 4 chances for successful completion of I / III semester courses and more than 3 chances for successful completion of II / IV semester courses shall be permitted to attend V / VII semester classes ONLY during the subsequent academic year as the case may be. In simpler terms there shall NOT be any ODD BATCH for any semester.



Note: Grade AB should be considered as failed and treated as one head for deciding academic progression. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

17. Grading of performances

17.1. Letter grades and grade points allocations:

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and their corresponding grade points are given in Table – XII.

Table – XII: Letter grades and grade points equivalent to Percentage of marks and performances

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00 – 100	O	10	Outstanding
80.00 – 89.99	A	9	Excellent
70.00 – 79.99	B	8	Good
60.00 – 69.99	C	7	Fair
50.00 – 59.99	D	6	Average
Less than 50	F	0	Fail
Absent	AB	0	Fail

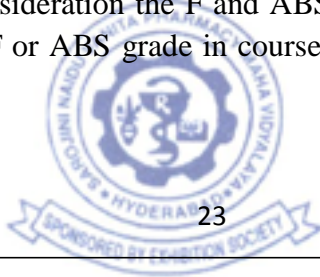
A learner who remains absent for any end semester examination shall be assigned a letter grade of AB and a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

18. The Semester grade point average (SGPA)

The performance of a student in a semester is indicated by a number called ‘Semester Grade Point Average’ (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses by the student during the semester. For example, if a student takes five courses (Theory/Practical) in a semester with credits C₁, C₂, C₃, C₄ and C₅ and the student’s grade points in these courses are G₁, G₂, G₃, G₄ and G₅, respectively, and then students’ SGPA is equal to:

$$\text{SGPA} = \frac{C_1G_1 + C_2G_2 + C_3G_3 + C_4G_4 + C_5G_5}{C_1 + C_2 + C_3 + C_4 + C_5}$$

The SGPA is calculated to two decimal points. It should be noted that, the SGPA for any semester shall take into consideration the F and AB grade awarded in that semester. For example if a learner has a F or AB grade in course 4, the SGPA shall then be computed as:



$$C_1G_1 + C_2G_2 + C_3G_3 + C_4* ZERO + C_5G_5$$

$$SGPA = \frac{\text{-----}}{C_1 + C_2 + C_3 + C_4 + C_5}$$

19. Cumulative Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the VIII semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all VIII semesters and their courses. The CGPA shall reflect the failed status in case of F grade(s), till the course(s) is/are passed. When the course(s) is/are passed by obtaining a pass grade on subsequent examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

$$CGPA = \frac{C_1S_1 + C_2S_2 + C_3S_3 + C_4S_4 + C_5S_5 + C_6S_6 + C_7S_7 + C_8S_8}{\text{-----}}$$

$$C_1 + C_2 + C_3 + C_4 + C_5 + C_6 + C_7 + C_8$$

where C₁, C₂, C₃,... is the total number of credits for semester I,II,III,... and S₁,S₂, S₃,... is the SGPA of semester I,II,III,....

20. Declaration of class

The class shall be awarded on the basis of CGPA as follows:

- First Class with Distinction = CGPA of 7.50 and above
- First Class = CGPA of 6.00 to 7.49
- Second Class = CGPA of 5.00 to 5.99

21. Project work

All the students shall undertake a project under the supervision of a teacher and submit a report. The area of the project shall directly relate any one of the elective subject opted by the student in semester VIII. The project shall be carried out in group not exceeding 5 in number. The project report shall be submitted in triplicate (typed & bound copy not less than 25 pages).

The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of five students). The projects shall be evaluated as per the criteria given below.



Evaluation of Dissertation Book:

Objective(s) of the work done	15 Marks
Methodology adopted	20 Marks
Results and Discussions	20 Marks
Conclusions and Outcomes	20 Marks

Total	75 Marks
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Evaluation of Presentation:

Presentation of work	25 Marks
Communication skills	20 Marks
Question and answer skills	30 Marks

Total	75 Marks
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Explanation: The 75 marks assigned to the dissertation book shall be same for all the students in a group. However, the 75 marks assigned for presentation shall be awarded based on the performance of individual students in the given criteria.

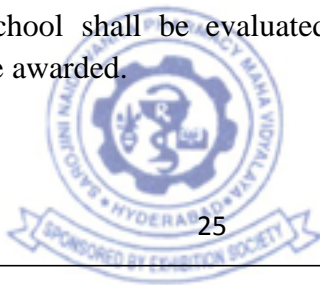
22. Industrial training (Desirable)

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

23. Practice School

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

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



24. Award of Ranks

Ranks and Medals shall be awarded on the basis of final CGPA. However, candidates who fail in one or more courses during the B.Pharm program shall not be eligible for award of ranks. Moreover, the candidates should have completed the B. Pharm program in minimum prescribed number of years, (four years) for the award of Ranks.

25. Award of degree

Candidates who fulfill the requirements mentioned above shall be eligible for award of degree during the ensuing convocation.

26. Duration for completion of the program of study

The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh Registration.

27. Re-admission after break of study

Candidate who seeks re-admission to the program after break of study has to get the approval from the university by paying a condonation fee.

No condonation is allowed for the candidate who has more than 2 years of break up period and he/she has to rejoin the program by paying the required fees.



BACHELOR OF PHARMACY

PROGRAM

RULES & REGULATIONS

Choice Based Credit System with Grading System of Evaluation

(Effective from Academic Year 2016-2017)

Faculty of Pharmacy

**FACULTY OF PHARMACY
OSMANIA UNIVERSITY
HYDERABAD – 500 007**

INTRODUCTION

The operationalization of WTO agreement is likely to bring new opportunities and challenges in all areas of human endeavor including education. To make use of these opportunities effectively there is an immediate requirement for the revision of curriculum both at undergraduate and postgraduate level to incorporate the changes and additions to take care of the challenges posed by the new developments and advances in science and technology. Reviewing and updating of the curriculum is the essential ingredient of any vibrant university academic system. The present structure of pharmacy education is catering to the manpower needs of R & D and Industry, unlike the western countries that meet the requirements of pharmacy practice of clinical, community and hospital pharmacy.

The Pharmacy Education, Research and Profession are facing a considerable challenge due to globalization of trade and services. It is expected that the academic bodies should develop appropriate strategies to be strengthen the institutions and make them to be remain competitive through innovative practices in education and research. The new revised curriculum is aimed to be compatible in tune with the recent developments in pharmacy education especially from other competitive disciplines such as chemistry, biotechnology and chemical engineering. This may allow innovative concepts to provide multidisciplinary profile by initiating new papers to cater to frontier developments in the concerned discipline.

To all, knowledge is interdisciplinary, to meet the needs of society and to enhance the quality and standards of pharmacy education, updating and restructuring of the curriculum must be continued as a perpetual process. A new course Pharmacoinformatics was developed in response to the pharmacy curriculum revisions based upon the growing awareness of the influence of information technology application in pharmacy. This program likely to train new generation scientists to explore new drugs in novel way and it will facilitate the design of a drug rather than discovery of drug. Normally the pharmaceutical sciences curriculum helps to understand the drug discovery, drug delivery and drug development. Introducing the subject of Pharmacoinformatics in regular pharmacy curriculum is likely to revolutionize the diagnosis and treatment of human disease, especially through drug action and disposition.

The development of character, knowledge, basic and professional skills and values are to be the integral part of restructuring of educational programs to establish a learning society of lifelong learning process consists of learning to know, Learning to do, learning to practice, learning to care, learning to be and learning to become a perfect professional.

In this regard we have a specific Vision and Mission for the development of Pharmacy Curriculum based on the PCI and AICTE norms.

VISION:

To ensure the curriculum will meet the standards of pharmacy education in countries with advanced health care systems to improve the quality and standards of pharmaceutical services and also to meet the requirements of Research & Development and Industry.

MISSION:

"To pursue and disseminate pharmaceutical knowledge and also impart skills through quality teaching, research and service development aimed at improving the health standards of all".

OBJECTIVES:

The objectives of the Bachelor in Pharmacy program at the Osmania University are:

- To ensure high level of performance in teaching, research and practice;
- To develop the scientific and technical manpower of the highest quality to cater the needs of the growth sectors of economy in general and industry in specific;
- To provide a broad grasp of the fundamental principles of the basic sciences and scientific and technological methods through its curriculum;
- To provide a deep understanding of the area of specialization in the context of the professional needs of the community and the national priorities in the health and pharmacy sector and take them into account while planning professional strategies;
- To play the assigned role in the implementation of National Health Policy, National Drug Policy etc. effectively and responsibly;
- To demonstrate competence in basic concepts of research methodology and be able to critically analyze relevant published research literature;
- To use educational methods and techniques as applicable to the teaching of pharmacy students and other health professionals;
- To provide an innovative ability to solve new problems;
- To provide a capacity to learn continually and interact with multidisciplinary groups;
- To develop the students with a capability at the end of undergraduate program for:
 - Free and Objective Enquiry
 - Courage and Integrity while Practicing the Profession Ethically

- Awareness and Sensitivity to the Needs and Aspirations of Society
- Skills as a self-directed learner, and function as an effective leader of a health team engaged in health care, research or training.

With these objectives in mind, the undergraduate program is designed to include courses of study, seminars and research project through which a student may develop his/her new research and innovative concepts and intellectual skills.

Keeping in view the general objectives of undergraduate training, each discipline shall aim at development of specific competencies which shall be defined and spelt out in clear terms. Each department shall produce a statement and bring it to the notice of the trainees in the beginning of the program so that he can direct the efforts towards the attainment of these competencies.

The procedures and requirements stated in this manual embody the philosophy of the postgraduate education and ensure a high standard of performance at the Institute.

To ensure uniformity and quality in higher education system under CBCS of undergraduate program including duration of study, this manual depicts the details of eligibility criteria for admissions, interpretation and weightage of credits among courses, mode of instruction, standardization of examination, grading system of evaluation and other related aspects.

The following academic rules and regulations are recommended.

RULES AND REGULATIONS OF B. PHARM PROGRAM

(Effective from academic year 2016 – 2017)

Note: All the rules and regulations, hereinafter, specified should be read as a whole for the purpose of interpretation.

I) ELIGIBILITY FOR ADMISSION

1. A candidate for admission to the Four Year Degree course in Pharmacy must have passed the Intermediate examination of the Telangana State Board of Intermediate Education with Physics, Chemistry and Mathematics / Biology as optional subjects or any other examination recognized by the Osmania University and Government of Telangana as equivalent thereto.
2. Other eligible conditions will be governed as per the rules and regulations of Government of Telangana framed from time to time.

LATERAL ENTRY

3. A pass in D.Pharm course from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act.

FOR ADMISSION CATEGORIES

4. For admission in to convener category / management category/ other category (if any) will be governed as per the rules and regulations of Government of Telangana framed from time to time.

II) RESPONSIBILITY OF STUDENTS

5. Candidates shall be admitted only under 'Full-Time 'basis.
6. The candidates should not attend any other Full-time Program(s)/Course(s) or take up any Full-Time Job in any Institution/ Company during the period of program.
7. The admitted students need to adhere the code of ethics and norms of the program and as well as institution. Violation of the rules and regulations will result in cancellation of admission.

III) PROGRAM ATTRIBUTES

8. All the under graduate programs offered by university are structured and their academic requirements are spelt out by the number of course credit. Programs are designed in such a way that a student will be able to finish the program in a stipulated number of semester.

9. The eight semesters B. Pharm (Regular) Programs offered by the Osmania University under the Faculty of Pharmacy is indicated in Scheme of Instructions as approved by the Board of Studies and Faculty

Program B. Pharmacy

Program Code: 881

10. A program wise catalogues is prepared in the form of Scheme of Instructions , syllabus and other details.

IV) DURATION OF THE PROGRAM

11. The normal duration of the course is four academic years (eight semesters). All academic years shall be divided into two semesters hereinafter referred to as the **I to VIII** semesters in chronological order. Each semester shall comprise of:

Instruction 15 weeks minimum

Preparation for examination 10 days

12. For lateral entry students admitted into II year B. Pharmacy the duration of the course is three years (six semesters).

13. Candidates who fail to fulfill all the requirements for the award of the degree as specified hereinafter within eight academic years (or six academic years in case of lateral entry students) from the time of admission will forfeit their seat in the course.

14. The odd semesters shall be conducted from the month of **June/July to October/November** and even semester shall be conducted from **December to May/ June** in every calendar year normally.

V) MIGRATION / TRANSFER

15. Migration / transfer of students from one college to other college under Osmania university or from Osmania University to Other Universities will be as per the rules and regulations of Government of Telangana framed from time to time.

VI) ALMANAC

16. The University at the commencement of the course shall notify the duration of the program of instructions, examinations and vacation.

The Academic Year is as follows:

- A Minimum 90 Working Days per Semester
- 15 Weeks of Instruction per Semester

The Academic Schedule (Almanac) shall be notified by the university at the beginning of each Academic Year.

VII) INSTRUCTIONS

17. The Medium of Instruction is English and the Semester System of Education shall be followed across the Osmania University and its affiliated colleges at Graduate level.

18. A student admitted to a Graduate Program shall study the courses and earn credits specified in the course structure.

19. The Instruction of the Program will be organized around the Choice Based Credit System (CBCS). Each course will have a certain number of credits which will describe its weightage.

20. The minimum credit requirement for Degree is 80 – 96 Valid Credits enumerated under CGPA for a Professional Program.

21. An Academic Coordinator shall be appointed by the Head of the Institution/ Department to help the students in planning their courses of study and general advice on the academic program.

22. The Academic Coordinator need to sensitize the students on rules and regulations of B.Pharm Program and shall advise the students in regard to the minimum and the maximum number of total credits required for UG Program and Credits to be acquired in the context of his/her past performance, backlog of courses, SGPA/CGPA. Further he is also required to guide and counsel on choice of courses of individual interest and employment potentiality.

23. The Courses are divided into **Three domains**; *Core, Elective and Foundation*.

24. A student will have a choice of selecting an Elective from a pool of courses offered.

25. The training of students shall involve learning experience ‘derived from’ or ‘targeted to’ the needs of the profession and community.

26. The Curriculum and Syllabi of all the B.Pharm Programs shall be approved by the Academic Statutory Bodies of the Osmania University.

27. Instruction in various subjects in each year / semester shall be provided by the college.

28. The medium of instruction and examination shall be in English.

29. The Division of marks for sessionals (based on internal assessment by concerned teacher) and University examinations shall be as follows:

Subject	Sessional marks	Univ. Examination Marks.
Each Theory subject	30	70
Each Practical subject	30	70

30. At the end of the each year/semester, University examination shall be held as prescribed in the respective schemes of examination.

AT THE END OF I SEMESTER

Main Examination

- B. Pharmacy II year I sem.
- B. Pharmacy III Year I sem.
- B. Pharmacy IV year I sem.

Supplementary Examination

- B. Pharmacy I year
- B. Pharmacy II year II sem.
- B. Pharmacy III Year II sem

AT THE END OF II SEMESTER

Main Examination

- B. Pharmacy I year
- B. Pharmacy II year II Sem.
- B. Pharmacy III year II sem.
- B. Pharmacy IV year II sem

Supplementary Examination

-
- B. Pharmacy II year I Sem
- B. Pharmacy III year I sem.
- B. Pharmacy IV year I sem.

31. A supplementary (makeup) examination in the IV yr, II semester subjects shall be conducted immediately after the declaration of B. Pharm., IV yr II semester examination results.

32. The Academic Coordinator help in analyzing the performance of the students of the class after each test and finding the ways and means of improving the student's performance.

33. The Courses are divided into three domains

i. Core – To be Delivered through Formal Mode Only

- To be offered in Every Semester.
- Unique to the Program and to be compulsorily studied - essential requirement to complete or earn the degree in a said discipline of study.

ii. Elective – To be Delivered through Formal and Non-Formal Mode

- Elective Course is offered to Nurture Student's Proficiency/Skill and can be **Chosen from a Pool of Papers** through option of selection.

iii. Foundation- These are basic science courses, which are required for the core courses.

The **Lateral Entry** students shall undergo the course curriculum for Basic Computer Applications and Mathematics along with B. Phar First year I semester or the Institution may provide separate teaching arrangement for them and they can appear for these examinations any time during the main/ supplementary exams of B.Pharm I to VIII semesters. These papers shall not be considered as backlogs for promotion for next semester.

REGISTRATION FOR ELECTIVE COURSES

The students can register for elective courses within two weeks from the date of commencement of the semester, through a particular procedure adopted by the Institution.

34. The respective Departments/ Colleges/ Institutions shall provide instruction in various programs and courses in I and II semesters. The project work in the VII & VIII semesters shall be done either at the Department/ College/ Institution or at any other place as approved by the university. The medium of instruction and examination shall be in English.
35. Total Credits required for Bachelor Program as per the scheme of instructions.
36. The Curriculum of B. Pharmacy program shall be so designed that the prescribed credits required for the award of the degree shall be within the limits as following.
 - a. One credit for each lecture period allotted per week
 - b. Two credits for each practical sessions designed per week
 - c. Other credits as assigned in the curriculum mentioned.
37. The number of credits to be earned for the successful completion of the program shall be as specified in the curriculum of B. Pharmacy program.

IX) TEACHING – LEARNING -ENGAGEMENT

38. The Instruction is delivered both in Formal and Non-formal Mode depends upon type of course.
 - a) Formal Mode of Instruction: Courses that Delivered through Teacher Assisted Class Room Instruction
 - b) Non-Formal Mode of Instruction: Courses that offered through Open, Distance, Virtual, On-line, Contact, Continuing, Extension, Experiential, Self-Learning etc.,
39. Teacher led instruction with learner-centric approach adopted to minimize teacher intervention for various SAIL courses that revolves around knowledge acquisition and practice learning.
40. Avail effective use of ICT to supplement with Power Point Mode of teaching and suitable audio /video samples from Podcast /YouTube to be used for illustrative purposes wherever necessary.
41. Learners are to be encouraged to use NME-ICT/NPTEL accessed materials, blog, tweet, text and email employing appropriate language in assignment submission and seminar presentation.

42. Learners are to be assigned to read/write/listen/view materials outside the classroom to gain proficiency and enable for better participation in the class as well as in seminars.
43. A student is provided with an academically rich, highly flexible/integrated learning system also have an option of using MOOC's platform blended with abundant provision for skill practice and activity orientation that one could learn in depth without sacrificing their creativity.
44. The Head of the Department / Institution shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course (Subject) being taught.

X) ATTENDANCE

45. Each course shall be taken as a unit for the purpose of calculating the attendance and each teacher shall mark the attendance in every hour of teaching of each course.
46. The cumulative attendance of the students will be displayed on the Notice Board of the Institution/ Department periodically. However, it shall be the responsibility of the student to check his attendance periodically so as to ensure to put on the required attendance.
47. Certain Portion (Maximum of 20%) of Internal Assessment Marks shall be allotted for the regularity of the student in attending the classes.
48. In order to appear at the final examination of I and II semester, the candidate should have pursued a "Regular Course of Study" which means putting in attendance of not less than 75% aggregate in the theory and practical subjects listed in the schemes of instruction offered in the semester taken together.

CONDONATION

49. Provided that in special cases and for sufficient cause shown, the Vice-Chancellor, on the recommendation of the principal, may condone the deficiency not exceeding 10% in attendance for ill-health, supported by a certificate from Medical Officer and approved by the principal. The fee for condonation on medical grounds shall be as notified by University from time to time.
50. Attendance at NCC camps / Inter-collegiate / Inter-University / Inter-State / International matches/Debates/Educational excursions or such other Inter-University activities as approved by the authorities will not be counted as absence. However, such absence should not exceed 4 weeks of the total period of any semester or 8 weeks of the total period of year.
51. In any of semesters of the course, if a candidate fails to secure the minimum percentage of attendance, he/she shall have not be eligible to appear in the examination of that semester / year and he/she shall have to get readmitted himself into the corresponding semester / year in subsequent academic session, in order to become eligible to appear for the examination. The

candidate shall have to seek such readmission within four weeks from the date of commencement of the corresponding semester.

52. The attendance shall be calculated from the date of commencement of the classes as per the almanac communicated by the University.

53. The candidates who have put in less than 40% attendance in any semester will forfeit admission and can seek re-admission to the course during subsequent year and such admissions shall be treated as supernumerary.

XI) TRANSITORY REGULATIONS

54. Whenever, syllabus / scheme of instruction is changed in a particular semester, two more examinations immediately following thereafter shall be conducted according to the old syllabus / regulations. Candidates not appearing at the examinations or failing in them shall take the examination subsequently according to the changed syllabus / regulations.

55. By any reason a candidate admitted into the course under old scheme of instructions / regulations is promoted / readmitted after the implementation of revised scheme of instructions / regulations shall join the corresponding semester in the revised scheme of instructions / regulations.

EXAMINATION REGULATIONS

I) CONTINUOUS COMPREHENSIVE EXAMINATION

56. The award of sessional marks shall be as follows:

Theory courses:	Marks	Practical courses:	Marks
For Class Tests	20	Practical Class Test	20
For Quiz/Slip test	05	Continuous evaluation	05
For attendance	05	For attendance	05
	-----		-----
Total	30	Total	30

57. In every semester system, there shall be two class tests of one-hour duration for each theory subject. Both the class tests shall be considered for the evaluation of sessional marks.

58. In case a candidate fails to appear in any of the Class Tests on medical grounds or attendance at NCC camps / Inter-collegiate/ Inter-University/ Inter-State/ International matches/ Debates or such other Inter University activities as approved by the University authorities, the candidate shall be allowed to take only one make up Class Test in those subjects as per convenience of the college. The makeup test shall be counted as only one of the tests for the evaluation of Sessional marks.

II) ELIGIBILITY FOR END EXAMINATION

59. In order to appear at the final examination of I and II semesters, the candidate should have pursued a "Regular Course of Study" which means putting in attendance of not less than 75% aggregate in the theory and practical subjects put together listed in the schemes of instruction offered in the semester taken together.

III) SEMESTER END EXAMINATIONS

60. The University examinations (Regular/ Supplementary) prescribed for the B. Pharm., degree may be conducted by means of written papers, practicals and inspection of certified Sessional work in Labs or by means of any combination of these methods as may be deemed necessary according to the University rules.

61. All the general rules for examination (given under Sec VIII) shall be adhered to.

IV) MINIMUM MARKS FOR PASS

62. A candidate shall be deemed to have fully passed the examination of any year / semester, if he / she secures not less than the minimum marks as hereinafter prescribed.

Minimum pass marks in the University examinations be:

Each Theory Paper 40%

Each theory subject combined aggregate (University exams + Sessional) 40%

Each Practical Paper 50%

Each Practical subject combined aggregate (University exams + Sessional) 50%

Project Report (IV year B. Pharm., I and II sem) Grade (A/B/C/D/F)*

63. The university end theory examinations are conducted by giving internal choice in a unit and thus a total of 5 questions need to be answered. Each question carries 14 marks each.

64. The university end practical examinations are conducted by in the following format for 70 mark.

Synopsis	- 10
Major experiment	- 30
Minor experiment	- 20
Viva voce	- 10

For this purpose, one external examiner is appointed by the Osmania University, while the internal examiner is subject teacher or teacher assigned by the Head of the Institution of the conducting examination centre.

65. If a candidate in any year/semester examination of the course fails to secure the minimum marks in any paper, then he shall appear only in the failed papers of the year/semester.

V) RULES OF PROMOTION

66. **Rules of promotion to higher semester / class of B. Pharmacy Course.**

S.No	Semester / Class	Condition to be fulfilled for promotion			
1	B. Pharm., I year I Semester to B. Pharm., I year, II semester.	a. Regular course of study of B. Pharmacy I year I Semester			
2	B. Pharm., I year II Semester to B. Pharm., II year, I semester	a	Regular course of study of B. Pharmacy I year II Semester		
		b	Must have passed at least 50 % of papers prescribed for B. Pharm. I yr (I and II semesters put together). The number of papers a candidate can have as backlogs is as under.		
			<table border="1"> <tr> <td>No. of papers prescribed for I year</td> <td>No. of backlogs permitted (I semester and II semester)</td> </tr> <tr> <td>16</td> <td>8</td> </tr> </table>	No. of papers prescribed for I year	No. of backlogs permitted (I semester and II semester)
No. of papers prescribed for I year	No. of backlogs permitted (I semester and II semester)				
16	8				

3	B. Pharm., II yr - I sem. to B. Pharm., II yr - II sem.	a	Regular course of study of B. Pharm., II year, I sem.	
4	B. Pharmacy II year- II semester to III year, I semester	a	Regular course of study of B. Pharm., II year, II sem.	
		b	Number of backlogs, if any of B. Pharm., I year and B. Pharm., II year put together shall not exceed 50% of the total number of papers prescribed for the I and II semester of B. Pharm, II year.	
			No. of papers prescribed for I & II semesters of B. Pharm II year	No. of backlogs in I and II yrs put together permitted
			16	8
5	B. Pharm., III yr I sem. to B. Pharm., III yr, II sem.	a	Regular course of study of B. Pharm., III year, I sem.	
6	B. Pharmacy III year II semester to B. Pharmacy IV year, I semester Re: Regular entry LE: Lateral entry	a	Regular course of study of B. Pharm., III year, II sem	
		b	No. of backlogs, if any of B. Pharm., I yr, II yr and III year put together shall not exceed 50% of the total number of papers prescribed for the I and II semesters of B. Pharm., III year	
			No. of papers prescribed for I and II semesters of B. Pharm., III yr	No. of backlogs permitted in I, II and III yrs put together
			16	8
7	B. Pharm., IV yr, I sem to B. Pharm., IV yr, II sem.	a	Regular course of study of B. Pharmacy IV year I sem	

VII) GUIDELINES FOR COMPUTATION OF SGPA/CGPA

67. Adhere to the UGC recommendation for calculation of SGPA and CGPA

- i. The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e

$$\text{SGPA (Si)} = \frac{\sum(C_i \times G_i)}{\sum C_i}$$

Where C_i is the number of credits of the i^{th} course and G_i is the grade point scored by the student in the i^{th} course.

- ii. The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a program, i.e.

$$\text{CGPA} = \frac{\sum(C_i \times S_i)}{\sum C_i}$$

Where S_i is the SGPA of the i^{th} semester and C_i is the total number of credits in that semester.

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

68. Illustration of SGPA and CGPA

Illustration of SGPA (Example only)					
Course Code	Credit	Grade	Grade Point awarded	Credit X GP	Credit Point
PY.05.881.11.T	3	A	8	3 X 8	24
PY.05.881.12.T	3	B+	7	3 X 7	
PY.05.881.13.T	4	B	6	4 X 6	24
PY.05.881.14.T	4	O	10	4 X 10	40
PY.05.881.15.T	4	C	5	4 X 5	
PY.05.881.11.P	2	A+	9	2 X 9	18
PY.05.881.12.P	2	A	8	2 X 8	
	13				106

$$\text{SPGA} = 106 / 13 = 8.15$$

Grade = A

Illustration of CGPA (Example only)								
	Course work							
	Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Sem VII	Sem VIII
Credits	13	24	24	24	24	24	24	22
SGPA	8.15	8.32	8.51	7.95	8.15	8.21	8.01	8.34
CGPA	$13 \times 8.15 + 24 \times 8.32 + 24 \times 8.51 + 24 \times 7.95 + 24 \times 8.15 + 24 \times 8.21 + 24 \times 8.01 + 22 \times 8.34$							8.21
	179							
Grade A+								

99. The SGPA score is calculated only if the candidate is passed in all the papers in a semester and the CGPA score is evaluated only if SGPA scores for all the semesters are available.
100. The CGPA obtained as above shall be the base for the determination of Grade and for the declaration of the result as follows. However, the overall %age of marks shall be shown in the marks statement of final semester.

VIII) AWARD OF GRADING SYSTEM

101. Candidates who have passed all the examinations of the B. Pharmacy course shall be awarded one of the following divisions in accordance with the marks secured by them in I and II semesters examinations of I, II, III and IV years taken together.

I Division: 60% and above

I - Division with Distinction 70% and above

The candidates who have not passed the examinations in first attempt are not qualified to a Rank Certificate / Gold Medal.

II Division: 50% and above but less than 60%.

Pass Division: All others who have passed the examination.

GRADING SYSTEM OF EVALUATION

CGPA / SGPA	GRADE	Performance	Result
10.00	0 ⁺	Extraordinary	Absolutely Outstanding
9.00 – 9.99	0	Outstanding	First Division with Distinction
7.50 – 8.99	A ⁺	Excellence	
6.00 – 7.49	A	Very Good	First Division
5.50 – 5.99	B ⁺	Good	Second Division
5.00 – 5.49	B	Above Average	
4.50 – 4.99	C	Average	Pass Division
4.00 -4.19	P	Pass	
< 4.00	F	Fail	Fail
0	Ab	Absent	

The statistical method shall invariably be used by the examination branch with marginal adjustment for the natural cut off. The mean and the standard deviation (σ) of marks obtained of all the students in a course shall be calculated and the grades shall be awarded to a student depending upon the marks and the mean and the standard deviation for declaration of rank.

102. The statistical method shall invariably be used with marginal adjustment for the natural cut off. The mean and the standard deviation (σ) of marks obtained of all the students in a course shall be calculated and the grades shall be awarded to a student depending upon the marks and the mean and the standard deviation as per the Table given below.

GUIDELINES FOR THE AWARD OF GRADES

103. Assessment is an integral part of system of education as it is instrumental in identifying and certifying the academic standards accomplished by a student and projecting them far and wide as an objective and impartial indicator of a student's performance. Thus, it becomes bounden duty of a University to ensure that it is carried out in fair manner.

104. "A teacher is the best judge in awarding the grades". However, he/she has to be impartial, logical and maintain complete transparency while awarding grades.

105. The following are the general guidelines for the award of grades:

- i. All evaluations of different components of a course announced in the course plan shall be done in marks for each student.
 - ii. The marks of various components shall be added to get total marks secured on a 100-point scale for theory courses and laboratory courses.
 - iii. For any course, the statistical method (Table) shall be used for the award of grades with or without marginal adjustment for natural cut off.
 - iv. The teacher will ensure the coverage of all the contents of a course taught during the semester. The end semester examinations question paper shall be within the prescribed syllabus. At the end of the semester a teacher will submit a complete course file having following documents.
 - a. Course Plan
 - b. Attendance Record
 - c. Sessional Answer Sheets & Question Papers
 - d. Complete Details of Marks with Final Grades
106. In case a student repeats a particular course on account of failure in a particular subject / course along with his/her juniors, he/she will be awarded only up to a maximum of 'A' Grade as per his/her performance and with respect to his/her earlier class.
107. A student obtaining Grade F shall be considered failed and will be required to reappear in the examination.
108. Further it is recommended that the cut-off marks for grade 'B' shall not be less than 50% and for grade 'B+', it should not be less than 55% under the absolute grading system.

IX) TRANSCRIPT

109. Candidates who have passed all the examinations of the B. Pharm course shall be awarded based on the above recommendations on Letter Grades, Grade Points and SGPA and CGPA, the University may issue the transcript for each semester and a consolidated transcript indicating the performance in all semesters.
110. A Formula for conversion of Grade to Percentage and Division may be placed behind the Transcript Card in order to facilitate to know the marks secured by candidates in various semester examination.

X) IMPROVEMENT OF GRADE

111. A candidate who wishes to improve his/her division may do so within one academic year immediately after having passed all the examinations of the B. Pharmacy degree course, by reappearing at I year or not more than two semester (all subjects pertaining to the semester/year taken together) examinations. For the award of Division, he/she will have the benefit of the higher of the two aggregates of marks secured in the corresponding semester (s) provided the candidate passes the improvement examination fully.

XI) GENERAL RULES OF EXAMINATIONS

112. All examinations of the Osmania University shall be held at such places as it may be decided and at such other centres on such dates as may be notified.
113. Application for permission to appear at every examination shall be made on the prescribed form accompanied by 3 passport size full face photographs (not profile) which along with the necessary certificates regarding attendance, practical work etc., and the prescribed fee should be sent to the Officer Incharge Examinations on or before the date fixed for this purpose.
114. When a candidate's application is found in order and he/she is eligible to appear at examination, the Controller of Examinations, Osmania University, shall furnish him with Hall Ticket with the photograph attached to it enabling the candidate to appear the examination and this Hall Ticket shall have to be produced by the candidate before he/she can be admitted to the premises where the examination is being held or to a part of the said premises as well as to the examination hall.
115. A candidate who fails to present himself / herself for the examination for any reason whatsoever, excepting shortage of attendance and failure to secure the prescribed minimum in sessional work and / or class tests (if any), wherever prescribed or he / she fails to pass the examination shall not be entitled to claim refund of the whole or part of the examination fee nor for the reservation of the examination fee for a subsequent examination or examinations.
116. A candidate after he/she has been declared successful in the whole examination shall be given a certificate setting forth the year of examination, the subject in which he/she was examined and, the division in which he/she was placed.
117. No candidate shall be allowed to put in attendance for or appear at examinations for different degrees and different faculties at one and the same time.
118. Students who have appeared once at any examination of the course need not put in fresh attendance, if they want to reappear at the corresponding examination, notwithstanding the fact that new subject may have been introduced by the University. They will however have to appear at the examination according to the scheme of examination and syllabus in force.
119. The industrial training / pharmacy practice would be arranged in vacation after 3 year II semester as per the convenience of the college.

XII) TRANSITORY REGULATIONS

120. Whenever, syllabus / scheme of instruction is changed in a particular semester, two more examinations immediately following thereafter shall be conducted according to the old syllabus / regulations. Candidates not appearing at the examinations or failing in them shall take the examination subsequently according to the changed syllabus / regulations.
121. By any reason a candidate admitted into the course under old scheme of instructions / regulations is promoted / readmitted after the implementation of revised scheme of instructions / regulations shall join the corresponding semester in the revised scheme of instructions / regulations.

Follow the specific Guidelines for Assignment / Seminar / Project work for awarding marks or grades to the student at the end of course of study / semester.

GUIDE LINES FOR ASSIGNMENT, SEMINAR, PROJECT etc.,

The assignment, seminar and project work should be given due importance in curricula so as to contribute significantly in developing the careers of students. These enable the student to acquire knowledge, skills and competency required to holistic understanding of the field of discipline from which they have to be graduated.

SEMINAR

The purpose of seminar is to develop self-confidence and communication skills among students so as to enable to achieve the following objectives

1. To encourage self-study by direct study of source material.
2. To develop critical analysis through proper reasoning
3. To train the students in oral presentation of technical reports
4. To promote co-operation and team spirit by intimate interaction between student and student and between student and faculty member.

The following suggestions may be adopted for successful implementation of seminar in accomplishing the said objectives.

1. The class of 24 / 60 may be divided into six groups with about 4 / 10 students in each group and a faculty member (teacher) is assigned to each group.
2. The topic for the seminar lecture to be delivered by student must be fixed in consultation with the student in the first week of the semester or any other convenient time, during which student should be able to pay at least 8 weeks of time to go through the survey of literature available in library and internet facilities and present a typed copy of the report in a prescribed format. If the report is not satisfactory, he should be asked to resubmit the report within another 2 or 4 weeks.
3. The teacher is allowed to go through the report for evaluation within a week and make necessary comments indicating the points of weakness of the report and necessary corrections may be incorporated or deleted before it is approved finally for presentation.
4. The satisfactory reports may be scheduled for presentation, giving at least one week's notice to the students and faculty members of the department. An abstract of the seminar report may be circulated or exhibited in the notice board in advance so that the students are motivated and can intelligently participate in the seminar.

5. The student should prepare himself to make power point presentation of seminar topic using the facilities of multimedia aided language lab. The seminar room should have projection and appropriate audio-visual equipments.
6. Time for presentation of seminar report should be intimated in advance so that the student can prepare accordingly, and should be 15-30 minutes. The student should allot an adequate time of 15 minutes for discussion after the seminar lecture.

A two/four member committee (An External Member can also be included) of the faculty may assess the student performance at the seminar on the following:

- (i) Written Report (50%)
- (ii) Contents in Visual Presentation (use of Animation and Others) (20%)
- (iii) Oral Presentation (Language Command and Sequential Order) (10%)
- (iv) Communication (Eye to Eye Contact and Body Language) (10%)
- (v) Participation in Seminar Discussion (10%)

EVALUATION OF CO-CURRICULAR ACTIVITIES

Evaluation Design for Co-curricular Activities

No.	Seminars/Symposia/Conference/Workshops	Max Marks	
1.	Observation and Discussion Note on the Work	40	<ul style="list-style-type: none"> • Participates actively in Dept. 'al / Inter Dept. 'al / State / National/ International levels. • Takes initiative to plan and organize events. • Reads and shows a high degree of awareness. • Shows good collaborative and networking skills. • Is able to inspire others.
2.	Oral / Poster Presentation and Exhibition	20	
3.	Active Participation in Interactive Sessions	10	
4.	Brief Report on Participation	20	
5.	Sharing Experience with Department/Institution	10	
	Total	100	

Evaluation of Seminar Presentation

- To encourage self-study by direct study of source material.
- To develop critical analysis through proper reasoning
- To train the students in oral presentation of technical reports
- To promote co-operation and team spirit by intimate interaction between student and student and between student and faculty member.

No.	Parameter	Marks	Tool
1.	Written Report	50	
2.	Contents in Presentation	20	Use of Animation and Others
3.	Oral Presentation	10	Language Command & Sequential Order
4.	Communication	10	Eye to Eye Contact and Body Language
5.	Participation in Discussion	10	Interactive and Responsive
	Total	100	

ASSIGNMENT:

Normally assignment provides an opportunity for students to get acquainted with the innovative topics and emerging areas of interest in the field of their discipline of study.

The assignment should mainly focus on the following:

- Clarity of Fundamental Concepts (Knowledge of Principles and Ideas) Collection of Information (Relevant Significance for Now and Future) Organization (Sequencing of Information)
- Conciseness (Effectiveness in Easy to Follow)
- Presenting facts (Illustration of Content in Context to Facilitate Learning) Understanding of Principles
- Interpretations (Draw Conclusions through Critical Thinking);
- The theory-oriented assignments must be a minimum of 2000 words and a maximum of 5000 words depending upon the chosen topic and also not exceeding 20 pages.

Main Elements of Evaluation of Theory Assignment:

1. Title	2
2. Author's Name and Address	2
3. Table of Contents	2
4. Nomenclature	2
5. Abstract or Summary	10
6. Introduction and Aim	2
7. Review of Earlier Work	5
8. Present Method	5
9. Comment of Present Method	2
10. Proposed Method	5
11. Description of Experimental or Theoretical Work	5
12. Discussion of Experimental or Theoretical Work	5
13. Conclusions	10
14. Recommendations	5
15. Suggested Future Program	5
16. Bibliography	5
17. Appendices	3
18. Tables and Illustrations (Graphs, Images etc.,)	5
19. Other*	20
20. Total	100

* This includes interaction with faculty, meeting deadlines (regularity and punctuality), neatness and finished features of the submitting material in appropriate electronic form or written form.

At least three assignments (Core and SAIL Disciplines) have to be provided in which two of them to be Seminars and one of them from SAIL Discipline in a Semester.

The students would enrich their knowledge by widening the scope for library use, internet use, computer use, collection of relevant data, analysis of available data, preparing a document and writing a report. This exercise would also facilitate developing thinking power, reasoning skills and effective writing ability. The Topics may be chosen from Abstracts, Proposals, Reports, Professional papers and journal articles or their course of study.

Evaluation Pattern for Assignment

No.	Particulars	Max Marks
1.	Identification of Topic	10
2.	Collection of Information	10
3.	Methodical Approach	10
4.	Written Report – Time Schedule	40
5.	References	10
6.	Presentation	20
	Total	100

The assignment should mainly focus on the following:

- Clarity of Fundamental Concepts (Knowledge of Principles and Ideas)
- Collection of Information (Relevant Significance for Now and Future)
- Organization (Sequencing of Information)
- Conciseness (Effectiveness in Easy to Follow)
- Presenting facts (Illustration of Content in the Context to Facilitate Learning)
- Understanding of Principles
- Interpretations (Draw Conclusions with appropriate Critical Views);

Evaluation Pattern for Industrial / Field Visits / Tours

No.	Particulars	Max Marks
1.	Written Report	50
2.	Attendance	10
3.	Behavior	10
4.	Tour Diary and Pocket Note Book	20
5.	Sharing of Experience with Department	10
	Total	100

GRADE	%	Rate
0	>90	Outstanding
A ⁺	75 – 89	Excellent
A	60 – 74	Very Good
B ⁺	55 – 59	Good
B	50 – 54	Fair
C	40 - 49	Satisfactory
F	< 40	FAIL

"C means average. B means good and A means excellent. Do not turn in good work to be best and expect an A.

EVALUATION OF EXTRA-CURRICULAR ACTIVITIES

Evaluation Pattern for Extra Curricular Activities

No.	Participation in NCC/NSS/Sports	Max Marks
1.	Attendance & Routine Activities	50
2.	Behavior / Attitude	10
3.	Participation in Tournaments / Camps	20
4.	Brief Report	10
5.	Sharing of Views at Department/Institution	10
	Total	100

- Identify, verbalize and respond effectively to other's emotions in an empathetic manner.
- Get along well with others and receptive to ideas and opinions of others in a group.
- Listen actively and take criticism positively and also shares a healthy rapport with peers.
- Communicate and interact effectively using appropriate words, intonation and body language.

Evaluation of Participation in Sports and Games

- Displays an innate talent in particular sport and a healthy team spirit.
- Demonstrates
 - Physical qualities, needed Endurance, Strength, Speed, Flexibility and Stamina in addition to an analytical aptitude required and reacts appropriately to strategic situations.
- Shows good hand-eye coordination and sportsmanship in addition to Discipline for practice.
- Has undergone training and coaching.
- Has represented a team in school / interschool / national/ international level.

GRADE	ACHIEVEMENT
A+	International Standing
A	International Participation
B+	National Standing
B	National Representing
C	State Standing
D	State Representing

PROJECT:

The Project Work usually assigned in most of the technical institutions is a design oriented project in order that students compile, synthesize and integrate the knowledge they acquired from different subjects of their undergraduate program. As the interests and career opportunities of the students vary considerably, particularly towards the end of the undergraduate program a student may be permitted to take theoretical and / or experimental and / or design project with appropriate data for development of a product or process or optimization of new technique or tool or idea. He may also be given the choice to take the project work problem from any of the allied subjects of particular discipline of his branch of study, provided that the problem of the project is relevant for the application to appropriate industry of his specialization.

The Project Report should normally include the following chapters with details indicated (wherever possible) for the Problem to be investigated.

1. Introduction: Objectives, Hypothesis and Significance
2. Methodology: Materials, Design, and Tools to be Used
3. Impact Analysis: Economics, Energy, Environment and Safety
4. Results Discussion:
5. Conclusions:
6. References:

Only Grading will be accorded for the Project Evaluation (A/B/C/D/F) to

Represents achievement as follows:

- | | |
|--|------------------|
| “A”-- Outstanding relative to the level necessary to meet course requirements. | Excellent |
| “B”-- Significantly above the level necessary to meet course requirements. | Very Good |
| “C”-- Meets the course requirements in every respect. | Good |
| “D”-- Worthy of credit even though it fails to meet fully the course requirements. | Fair |

“F”-- Failure and signifies that the work was either (1) completed but at a level of achievement that is not worthy of credit or 2) was not completed and there was no agreement between the instructor / evaluator and the student that the student would be awarded a Grade. **Fail**

Academic dishonesty in any portion of the academic work for a course shall be grounds for awarding a grade of F for the entire course.

INDUSTRIAL INTERNSHIP

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

INDUSTRIAL VISIT / EDUCATIONAL TOUR

Industrial visit and educational tours are very important to any student undergoing professional education such as pharmacy, biotechnology. The industrial visits and educational tours are an effort to bridge the gap of practical exposure. These visits provide the students the following benefits

1. To gain first hand information regarding functioning of the industry.
2. It provides an opportunity to plan, organize and engage in active learning experiences both inside and outside class rooms.
3. It provides an insight into the real working environment of the industry.
4. It helps the students to see their future ion working world.
5. It enhances the interpersonal skills and communications.
6. It also provide the understanding about the do's and dont's of the industrial practice.

SUMMARIZED RULES GOVERNING CONDUCT AND MAINTENANCE OF DISCIPLINE FOR STUDENTS CONDUCT:

Every student shall at all times maintain absolute integrity and devotion to studies and research and conduct himself in a manner conducive to the best interest of the Institute and shall not commit any act which is unbecoming of him/her or is prejudicial to the interest of the Institute.

Conform to and abide by the provisions of the rules made by the Institute from time to time.

Comply and abide by all lawful orders which may be issued to him/her from time to time in the course of his/her studies and research by the Institute or by any person or persons to whom he/she may be reporting in his/her department.

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Recognition of Exemplary Conduct:

A teacher or an officer of the Department / College / Institute may at any time make a confidential report through the Head to the Principal about an act of exemplary good conduct by a student which in his/her opinion deserves recognition. The recommendation shall only be made if the conduct of student is otherwise satisfactory.

The report recommending recognition shall precisely state the facts of the case and the reasons for the recommendation.

The recommendation for recognition of exemplary good conduct shall be considered by the Principal if he is satisfied that the conduct deserves a recognition, may award a certificate of exemplary conduct with or without monetary reward.

Any certificate granted aforesaid may be withdrawn for sufficient cause but only after giving recipient an opportunity to be heard.

Acts of Indiscipline/Misconduct:

An act punishable under any law for the time being in force.

Willful insubordination or disobedience (whether or not in combination with others) of any lawful and reasonable instructions of his faculty, willful negligence, commission of any act, subversive to discipline or good behavior.

Misconduct (including ragging) or an act which violates any rule of discipline or any other provision of the rules and regulations of the Institute.

Fraud/theft/bribery/dishonesty or acting under the influence of outsiders in connection with the research and studies or damage the property of the department/college/institute or of the property entrusted to the department/college/institute or to another student.

Unauthorized custody and/or use of the Department's / College's / Institute's equipment, tools, hostel or any other property of the Department/ College / Institute.

An act in breach of agreement or undertaking or direction or failure or refusal to obey instruction or direction of any authority.

Resorting to mass cuts of classes, tests or examinations and/or other compulsory activities of the Institute.

Absence without leave or overstaying the sanctioned leave for more than seven consecutive days without sufficient grounds or satisfactory explanation.

Falsification of Department / College / Institute record, impersonation or forgery.

Furnish at the time of admission or thereafter wrong or incomplete information or suppressing any information including dismissal removal or rustication by previous Institution/University or any punishment by any court of Law.

Conviction by Court of Law for any criminal offence involving moral turpitude or conviction by Court of Law for a serious criminal offence.

Willful slowing down in performance of research and studies or abetment or instigation thereof.

Smoking or consumption of intoxicating drinks within the campus of the Department / College / Institute. Intentional non-sense action while at work within laboratory or class-room.

Making false representations to persons or bodies outside the Department/College/Institute whether official or otherwise on matter connected with the affairs of Department/College/Institute or un-entitled personal grievances against the administration of the Department/College/Institute.

Making direct representation or sending grievance petitions to the members of the Board of Governors except through proper channel.

Non-payment of Department/College/Institute and other dues including Fees, Mess & Cafeteria charges.

An act which interferes with personal liberty of another or subjects another to indignity or involve physical violence or use of abusive language.

Collection of funds for any student program, project or activity without the permission of the appropriate authority.

Organizing a procession or meeting without the permission of the appropriate authority or participation therein.

Use of agitational means including strikes, picketing, gheraos, fast arousing the sentiments of the students' body and the public or use of any outside agency for redressal of grievances.

Damaging or defacing of Institute property and breaking into any Institute building or premises.

An act which disrupts the running of the Department/College/Institute or environment conducive to pursuit of knowledge and harmonious relationship between different people living in the Department/College/Institute Campus.

An act which brings the Department/College/Institute (and its teachers, officers or authorities) into disrepute.

Refusal to give evidence or establish or reveal identity when require.

Proxy registering of attendance or abetting the act or registering the attendance of another student.

Spreading, broking or encouraging Casteism, Regionalism, Communalism or Untouchability.

Refusal to accept and acknowledge, charge-sheet, orders or any other communication addressed to student(s).

Habitual late arrival or early departure or irregular attendance.

Indulging in an act of sexual harassment of girls/women within or outside the Department / College / Institute.

Such other acts as may be notified by the authorities from time to time.

Disciplinary Action:

Category- 1:

An order rustivating a student for stated period under intimation to other universities/institutions in India.vz

An order expelling a student from the Department/College/Institute whether for all time to come or for a stated period under intimation to other universities/institutions in India.

An order suspending a student for a period exceeding 15 days whether from all activities of the College/Institute, Departments or Hostels or only from specified activities.

An order directing a student to pay fine exceeding Rs.1000/- (Rupees one thousand only).

Category-2:

An order suspending a student for a period not exceeding 15 days whether from all activities of the College/Institute, Department or Hostel or from specified activities.

An order directing a student to pay a fine up to but not exceeding Rs.1000/- (Rupees one thousand only).

An order directing entry of adverse remarks in the character role of the student.

Category-3:

An order directing a student to vacate the premises and prohibiting him from re-entering the same for period not exceeding three days.

An order directing a student to cease and desist from indulging in any act of indiscipline. An order warning a student.

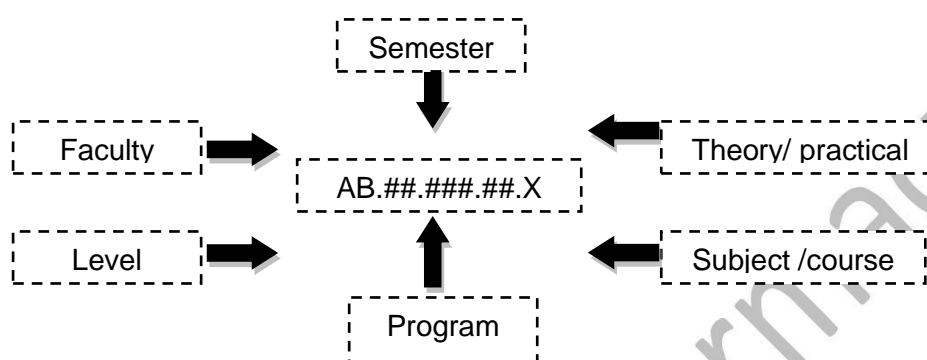
Note:

- 1) *This is the summarized form of Student discipline rules for Masters Programs.*
- 2) *For details, approved document of the rules shall be referred to.*
- 3) *Students will be required to vacate hostels for a period of one month, every year after end semester examination for maintenance. The period of one month will be treated equivalent to only 20 days of regular leave, to be sanctioned by Head of the Department Department/College/Institute. Before commencement of ensuing semester, fresh rooms and room partners will be re-allotted to students.*

NORMS FOR ASSIGNING OF SUBJECT CODE

Normally the subject code is assigned for convenience to distinguish and identify the subject by a professional. A systematic approach is followed while assigning the subject code. Especially the subjects of postgraduate programs with various specializations must be distinguishable to the professional and similarly an appropriate differentiation should be there for undergraduate program from postgraduate program. It is also felt to differentiate the Theory subjects from Practical Subjects, while assigning the subject code.

Assigning Subject Code for UNDERGRADUATE / POSTGRADUATE program:



The subject code for undergraduate program consists of three alphabets and seven numerals, which can be depicted or interpreted as follows:

1. The first two alphabetical letters indicate the faculty of the program of study i.e **Pharmacy**, which can be denoted as **PY** and the last alphabetical letter 'X' indicates for either for **Theory** or **Practical** or **Seminar** or **Tutorial** or **Co / Extra-curricular Activity** and denoted with either **T** for **Theory** or **P** for **Practical** or **S** for **Seminar** or **I** for **Tutorial** or **Co / Extra-curricular Activity** (Normally is an Integrated Learning Mode).
2. The first two numerical digits denotes for the **level** or **year** (**05/06/07/08 Level** representing **1/2/3/4 years** for **UG Program** and **09/10 Level** representing **1/2 years** for **PG Program**) and subsequent three numerical digits denotes for the program of study and the following last two numerical digits indicates the **semester** and **subject** or **course** of study for that year and semester.

Example 1: III Year, B. Pharmacy., II-Semester, Pharmacoinformatics Theory Subject/Course

PY.07.881.25.T

Example 2: II Year, B. Pharmacy., I-Semester, Pharmaceutical Microbiology Lab Subject/Course

PY.07.881.13.T

Example 3: IV Year, B. Pharmacy., II-Semester, Seminar Subject/Course

PY.07.881.26.S

PHARMACY



COURSE RULES & REGULATIONS

(Effective from Academic Year 2003-2004)

FACULTY OF TECHNOLOGY

**OSMANIA UNIVERSITY
HYDERABAD – 500 007**

RULES AND REGULATIONS FOR B.Pharm., COURSE

(EFFECTIVE FROM ACADEMIC YEAR 2003 - 2004)

Note: All the Rules and Regulations, hereinafter, Specified, shall be read as a whole for the purpose of interpretation.

ADMISSION

1. A candidate for admission to the Four Year Degree course in Pharmacy must have passed the Intermediate examination of the Andhra Pradesh State Board of Intermediate Education with Mathematics, Physics and Chemistry / Biology as optional subjects or any other examination recognized by the Osmania University as equivalent thereto.
2. All the eligible applicants will have to pass the Entrance Examination conducted by the Government of Andhra Pradesh. The candidates will be admitted strictly in accordance with the merit secured at the Entrance Examination keeping in view of the rules in force regarding the reservation of seats to various categories of candidates.

DURATION OF THE COURSE

3. The normal duration of the course is four years. The first academic year shall comprise of

Instruction	30 weeks minimum
Preparation for examination	10 days

Each of the subsequent three academic years shall be divided into two semesters hereinafter referred to as the I and II semester in chronological order. Each semester shall comprise of

Instruction	15 weeks minimum
Preparation for examination	10 days

4. The four-year degree course offered at affiliated colleges, Osmania University under the Faculty of Technology is B.Pharmacy
5. Candidates who fail to fulfill all the requirements for the award of the degree as specified hereinafter within eight academic years from the time of admission will forfeit their seat in the course.

AWARD OF DEGREE

6. The Degree of Bachelor of Pharmacy will be conferred on a candidate who has pursued a 'Regular Course of Study' for four academic years as hereinafter prescribed in the scheme of instruction and has passed all the examinations as prescribed in the scheme of examination.
7. i) A 'Regular course of Study' for eligibility to appear at the B.pharmacy examination of any year/semester shall mean putting in attendance of not less than 75% aggregate in theory subjects and 75% aggregate in practical subjects listed in the scheme of instructions and securing not less than 40% of the combined aggregate of sessional marks in all the subjects of that year or semester taken together. Provided that in special cases and for sufficient cause shown, the Vice-Chancellor, on the

recommendation of the Principal, may condone the deficiency not exceeding 10% in attendance for ill-health when the application submitted at the time of the actual illness is supported by a certificate from an authorized Medical Officer and approved by the Principal. The fee for condonation in theory / practicals on Medical grounds shall be Rs. 500/-

ii) Attendance at NCC camps / Inter-collegiate / Inter-University / National / International matches / Debates / Competitions / Educational Tours / Excursions or such other activities as approved by the authorities will not be counted as absence. However, such absence should not exceed 4 weeks of the total period of instruction.

iii) In any year/semester of the course, if a candidate fails to secure the minimum % of attendance and or minimum % of sessional marks as specified, he/she shall not be eligible to appear in the examination of that year/semester and he/she shall have to enroll himself / herself to undergo afresh a 'Regular course of study' of the corresponding year/semester in subsequent academic session in order to become eligible to appear for the examination.

iv) The attendance shall be calculated from the date of commencement of the classes as per the Almanac communicated by the University.

v) The candidates who have put in not less than 40% of attendance in Ist year can seek re-admission without appearing for the Entrance Test during subsequent year and such admissions shall be treated as supernumerary.

vi) In respect of others, who have put in less than 40% attendance in 1st year, they have to seek admission afresh after going through the Entrance Test along with fresh candidates.

vii) The cumulative attendance of the students will be displayed preferably every month, on the Notice Board of the College. However, it shall be the responsibility of the student to check his attendance periodically so as to ensure to put on the required attendance.

viii) No admission / readmission / promotions to be made after eight weeks after the commencement of instruction in an year / 4 weeks after commencement of instruction in a semester. In case there are any court cases consequent on which the Convener of Admissions is compelled to admit any one after the announced last date of admissions, the admission (seat) of such a student be reserved for the subsequent year on a supernumerary basis.

8. If a candidate who has pursued a 'Regular Course of Study' of any year/semester, wishes to undergo the same course again, he/she may be permitted to enroll again as a regular student for the course of that year/semester when next offered, depending on the availability of seats, provided that he/she undertakes to forego his/her attendance secured by him/her for that year/semester previously and provided further that he/she not pursued a 'Regular Course of Study' in any higher semester other than the immediately next higher semester. For the award of the division, however, he/she shall have the benefit of the higher of the aggregate secured in that year/ semester.

SCHEMES OF INSTRUCTION, EXAMINATION AND SYLLABI

9. Instruction in various subjects in each year / semester shall be provided by the college.

10. The medium of instruction and examination shall be in English.
11. The first year of the B.Pharmacy course shall be on the annual examination pattern. The second, third and fourth years shall be on the semester pattern as specified earlier.
12. The Division of marks for Sessionals (based on internal assessment by concerned teacher) and University examinations shall be as follows:

Subject	Sessional marks	Univ. Examination Marks.
Each Theory subject	30	70
Each Practical subject	25	50

13. The programme of instruction, vacation and industrial tour, shall be notified by the College at the commencement of the academic year.
14. At the end of the each year/semester, University examination shall be held as prescribed in the respective schemes of examination.

AT THE END OF I SEMESTER

Main	Supplementary
B.Pharmacy II year I sem.	B.Pharmacy I year
B.Pharmacy III Year I sem.	B.Pharmacy II year II sem.
B.Pharmacy IV year I sem.	B.Pharmacy III Year II sem

AT THE END OF II SEMESTER

Main	Supplementary
B.Pharmacy I year	--
B.Pharmacy II year II Sem.	B.Pharmacy II year I Sem
B.Pharmacy III year II sem.	B.Pharmacy III year I sem.
B.Pharmacy IV year II sem	B.Pharmacy IV year I sem.

A supplementary (makeup) examination in the IV yr, II semester subjects shall be conducted immediately after the declaration of B.Pharm., IV yr II semester examination results.

15. The award of Sessional Marks shall be as follows:

Theory courses:	Marks	Practical courses:	Marks
For Class Tests	25	Practical class work	20
For quizzes and slip test	05	Slip Test/Viva	05
Total	30	Total	25

In the First year, there shall be three Class Tests of one-hour duration for each theory subject. All the three Class Tests marks shall be considered for the evaluation of Sessional Marks. In every Semester, for the II, III and IV years, there shall be two Class Tests each of one-hour duration. Both the Class Tests shall be considered for the evaluation of Sessional Marks.

In case a candidate fails to appear in any of the Class Tests due to Medical emergency requiring hospitalization or attendance at NCC camps / Inter-collegiate/ Inter-University/ Inter-State/ International matches/ Debates or such other Inter University activities as approved by the University authorities, the candidate shall be allowed to take only one make up Class Test in those subjects as per convenience of the college. The make up Test shall be counted as only one of the tests for the evaluation of sessional marks. This facility is given to the student if and only if the candidate personally or through parents informs the College on the day of hospitalization along with the Medical Certificate.

There shall be no Make up for Quizzes/Slip Tests/Viva.

16. The University examinations (Regular/Supplementary) prescribed for the B.Pharm., degree may be conducted by means of written papers, practicals and inspection of certified Sessional work in Labs or by means of any combination of these methods as may be deemed necessary.
17. All the general rules for examination (given under Sec VIII) shall be adhered to.
18. A candidate shall be deemed to have fully passed the examination of any year / semester, if he / she secures not less than the minimum marks as hereinafter prescribed.

Minimum pass marks in the University examinations be:

Each Theory subject	40%
Each practical subject	50%
Combined aggregate of Sessional marks in all the subjects of the semester/year	40%
Seminar / Project Report (if any)	Grade (A/B/C/D/F)*

19. If a candidate in any year/semester examination of the course fails to secure the minimum marks in any subject, then he shall appear only in the failed subjects of the year/semester.
20. If a candidate fails to secure the minimum aggregate in sessional marks in any class (year/semester) he shall have taken readmission in the same class (year/semester) and put in fresh attendance and sessional requirements as given under 7(iii).

21. Rules of promotion to various semester / class of B.Pharmacy Course.

S.No	Semester / Class	Condition to be fulfilled for promotion									
1	B.Pharm., I year to B.Pharm., II year, I sem	a	Regular course of study of B.Pharmacy I year								
		b	Must have passed at least 50 % of papers prescribed for B.Pharm., I yr. The n of papers a candidate can have as backlogs is as under.								
			<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">No. of papers Prescribed for I Yr</td> <td style="width: 50%; text-align: center;">No. of backlogs permitted</td> </tr> <tr> <td style="text-align: center;">9/10</td> <td style="text-align: center;">5</td> </tr> <tr> <td style="text-align: center;">11/12</td> <td style="text-align: center;">6</td> </tr> <tr> <td style="text-align: center;">13/14</td> <td style="text-align: center;">7</td> </tr> </table>	No. of papers Prescribed for I Yr	No. of backlogs permitted	9/10	5	11/12	6	13/14	7
		No. of papers Prescribed for I Yr	No. of backlogs permitted								
9/10	5										
11/12	6										
13/14	7										
2	B.Pharm., II yr - I sem. to B.Pharm., II yr - II sem.	a	Regular course of study of B.Pharm., II year, I sem.								

3	B.Pharmacy II year- II semester to III year, I semester	a	Regular course of study of B.Pharm., II year, II sem.		
		b	Number of backlogs, if any of B.Pharm., I year and B.Pharm., II year put together shall not exceed 50 % of the total number of papers prescribed for the Ist and IInd semester of B.Pharm., II year.		
			No. of Papers Prescribed for I & II semesters of B.Pharm II year	No. of backlogs permitted in I and II yrs put together	
			13/14 15/16 17/18	7 8 9	
4	B.Pharm., III yr I sem. to B.Pharm., III yr, II sem.	a	Regular course of study of B.Pharm., III year, I sem.		
5	B.Pharmacy III year II semester to B.Pharmacy IV year , I semester	a	Regular course of study of B.Pharm., III year, II sem		
		b	No. of backlogs, if any of B.Pharm., I yr, II yr and III year put together shall not exceed 50 % of the total number of papers prescribed for the Ist and IInd semesters of B.Pharm., III year		
			No. of Papers Prescribed for Ist and IInd semesters of B.Pharm., III yr	No. of backlogs permitted in I, II and III yrs put together	
			13/14 15/16 17/18	7 8 9	
6	B.Pharm., IV yr, I sem to B.Pharm., IV yr, II sem.	a	Regular course of study of B.Pharmacy IV year I sem		

AWARD OF DIVISION

22. Candidates who have passed all the examinations of the B.Pharmacy course shall be awarded one of the following divisions in accordance with the marks secured by them in Ist year and Ist and II semesters examinations of II , III and IV year taken together.

I Division : 60% and above (I - Division with Distinction shall be awarded to those who have secured 70% and above). The candidate who have not passed by of the examinations in first attempt are not qualified to a Rank Certificate / Gold Medal.

II Division: 50% and above but less than 60%

Pass Division : All others who have passed the examination.

IMPROVEMENT OF DIVISION

23. A candidate who wishes to improve his/her division may do so within one academic year immediately after having passed all the examinations of the B.Pharmacy degree course, by reappearing at I year or not more than two semester (all subjects pertaining to the semester/year taken together) examinations. For the award of Division, he/she will have the benefit of the higher of the two aggregates of marks secured in the corresponding semester (s) provided the candidate passes the improvement examination fully.

GENERAL RULES OF EXAMINATIONS

24. All examinations of the Osmania University shall be held at such places as it may be decided and at such other centres on such dates as may be notified.

25. Application for permission to appear at every examination shall be made on the prescribed form accompanied by 3 passport size full face photographs (not profile) which along with the necessary certificates regarding attendance, practical work etc., and the prescribed fee should be sent to the Officer Incharge Examinations on or before the date fixed for this purpose.
26. When a candidate's application is found in order and he/she is eligible to appear at examination, the Controller of Examinations, Osmania University, shall furnish him with Hall Ticket with the photograph attached to it enabling the candidate to appear the Examination and this Hall Ticket shall have to be produced by the candidate before he/she can be admitted to the premises where the examination is being held or to a part of the said premises as well as to the examination hall.
27. A candidate who fails to present himself / herself for the examination for any reason whatsoever, excepting shortage of attendance and failure to secure the prescribed minimum in sessional work and / or class tests, wherever prescribed or he / she fails to pass the examination shall not be entitled to claim refund of the whole or part of the examination fee nor for the reservation of the examination fee for a subsequent examination or examinations.
28. A candidate after he/she has been declared successful in the whole examination shall be given a certificate setting forth the year of examination, the subject in which he/she was examined and, the division in which he/she was placed.
29. No candidate shall be allowed to put in attendance for or appear at examinations for different degrees and different faculties at one and the same time.
30. Students who have appeared once at any examination of the course need not put in fresh attendance, if they want to reappear at the corresponding examination, notwithstanding the fact that new subject may have been introduced by the University. They will however have to appear at the examination according to the scheme of examination and syllabus in force.
31. The industrial training / pharmacy practice would be arranged in vacation after 3 year II semester as per the convenience of the college.
32. Whenever, course or scheme of instruction is changed in a particular year, two more examinations immediately following thereafter shall be conducted according to the old syllabus/regulations. Candidates not appearing at the examinations or failing in them shall take the examination subsequently according to the changed syllabus/regulations.

TRANSITORY REGULATIONS

33. Whenever, syllabus / scheme of instruction is changed in a particular semester, two more examinations immediately following thereafter shall be conducted according to the old syllabus / regulations. Candidates not appearing at the examinations or failing in them shall take the examination subsequently according to the changed syllabus / regulations.
34. By any reason a candidate admitted into the course under old scheme of instructions / regulations is promoted / readmitted after the implementation of revised scheme of

instructions / regulations shall join the corresponding semester in the revised scheme of instructions / regulations.

* Follow the specific Guidelines for Assignment / Seminar / Project work for awarding marks or grades to the student at the end of course of study / semester.



Estd. 1997

**CBCS & PCI Rules & Regulations for
the Master of Pharmacy (M. Pharm)
(Effective from 2017-2018)**

Pharmaceutical Chemistry (MPC)

Pharmaceutics (MPH)

Pharmaceutical Analysis (MPA)

Pharmaceutical Quality Assurance (MQA)

2016

THE MASTER OF PHARMACY (M. PHARM.) COURSE REGULATION 2014

(BASED ON NOTIFICATION IN THE GAZETTE OF INDIA No. 362, DATED DECEMBER 11, 2014)

SCHEME AND SYLLABUS



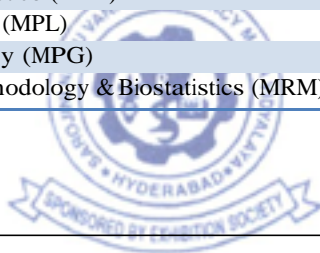
PHARMACY COUNCIL OF INDIA

Combined Council's Building, Kotla Road,
Aiwan-E-Ghalib Marg, New Delhi-110 002.
Website : www.pci.nic.



Table of Contents

S.No.	Content	Page.No.
	Regulations	01
1.	Short Title and Commencement	01
2.	Minimum qualification for admission	01
3.	Duration of the program	01
4.	Medium of instruction and examinations	01
5.	Working days in each semester	01
6.	Attendance and progress	02
7.	Program/Course credit structure	02
8.	Academic work	03
9.	Course of study	03
10.	Program Committee	15
11.	Examinations/Assessments	16
12.	Promotion and award of grades	32
13.	Carry forward of marks	32
14.	Improvement of internal assessment	33
15.	Reexamination of end semester examinations	33
16.	Allowed to keep terms (ATKT)	33
17.	Grading of performances	33
18.	The Semester grade point average (SGPA)	34
19.	Cumulative Grade Point Average (CGPA)	34
20.	Declaration of class	35
21.	Project work	35
22.	Award of Ranks	36
23.	Award of degree	36
24.	Duration for completion of the program of study	36
25.	Revaluation I Retotaling of answer papers	36
26.	Re-admission after break of study	36
27.	Pharmaceutics (MPH)	37
28.	Industrial Pharmacy (MIP)	55
29.	Pharmaceutical Chemistry (MPC)	73
30.	Pharmaceutical Analysis (MPA)	98
31.	Pharmaceutical Quality Assurance (MQA)	119
32.	Pharmaceutical Regulatory Affairs (MRA)	142
33.	Pharmaceutical Biotechnology (MPB)	165
34.	Pharmacy Practice (MPP)	188
35.	Pharmacology (MPL)	209
36.	Pharmacognosy (MPG)	232
37.	Research Methodology & Biostatistics (MRM)	252





भारत का राजपत्र The Gazette of India

असाधारण

EXTRAORDINARY

भाग III—खण्ड 4

PART III—Section 4

प्रधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

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नई दिल्ली, बुधवार, दिसम्बर 11, 2014/अग्रहायण 20, 1936

No. 362]

NEW DELHI, THURSDAY, DECEMBER 11, 2014/AGRAHAYANA 20, 1936

PHARMACY COUNCIL OF INDIA NOTIFICATION

New Delhi, the 10th December, 2014

The Master of Pharmacy (M.Pharm) Course Regulations, 2014

No. 14-136/ 2014-PCI.—In exercise of the powers conferred by Sections 10 and 18 of the Pharmacy Act, 1948 (8 of 1948), the Pharmacy Council of India, with the approval of the Central Government hereby makes the following regulations; namely—



CHAPTER –I:REGULATIONS

1. Short Title and Commencement

These regulations shall be called as “The Revised Regulations for the Master of Pharmacy (M. Pharm.)Degree Program - Credit Based Semester System (CBSS) of the Pharmacy Council of India, New Delhi”. They shall come into effect from the Academic Year 2016-17. The regulations framed are subject to modifications from time to time by the authorities of the university.

2. Minimum qualification for admission

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 (B.Pharm.)

3. Duration of the program

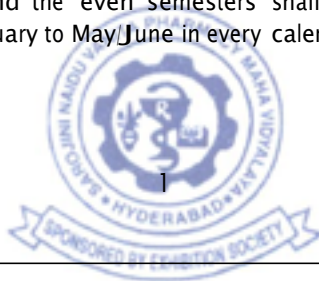
The program of study for M.Pharm. shall extend over a period of four semesters (two academic years). The curricula and syllabi for the program shall be prescribed from time to time by Pharmacy Council of India, New Delhi.

4. Medium of instruction and examinations

Medium of instruction and examination shall be in English.

5. Working days in each semester

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 the month of December/January to May/June in every calendar year.



6. Attendance and progress

A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations.

7. Program/Course credit structure

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

7.1. Credit assignment

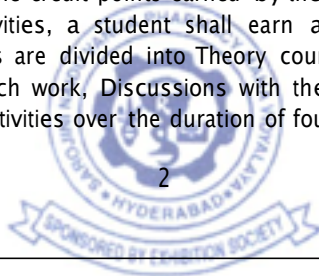
7.1.1. Theory and Laboratory courses

Courses are broadly classified as Theory and Practical. Theory courses consist of lecture (L) 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 a multiplier of half (1/2) for practical (laboratory) hours. Thus, for example, a theory course having four lectures 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.

The contact hours of seminars, assignments and research work shall be treated as that of practical courses for the purpose of calculating credits. i.e., the contact hours shall be multiplied by 1/2. Similarly, the contact hours of journal club, research work presentations and discussions with the supervisor shall be considered as theory course and multiplied by 1.

7.2. Minimum credit requirements

The minimum credit points required for the award of M. Pharm. degree is 95. However based on the credit points earned by the students under the head of co-curricular activities, a student shall earn a maximum of 100 credit points. These credits are divided into Theory courses, Practical, Seminars, Assignments, Research work, Discussions with the supervisor, Journal club and Co-Curricular activities over the duration of four semesters. The credits



are distributed semester-wise as shown in Table 14. Courses generally progress in sequence, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester-wise schedule of courses given in the syllabus.

8. Academic work

A regular record of attendance both in Theory, Practical, Seminar, Assignment, Journal club, Discussion with the supervisor, Research work presentation and Dissertation shall be maintained by the department / teaching staff of respective courses.

9. Course of study

The specializations in M.Pharm program is given in Table 1.

Table – 1: List of M.Pharm. Specializations and their Code

S. No.	Specialization	Code
1.	Pharmaceutics	MPH
2.	Industrial Pharmacy	MIP
3.	Pharmaceutical Chemistry	MPC
4.	Pharmaceutical Analysis	MPA
5.	Pharmaceutical Quality Assurance	MQA
6.	Pharmaceutical Regulatory Affairs	MRA
7.	Pharmaceutical Biotechnology	MPB
8.	Pharmacy Practice	MPP
9.	Pharmacology	MPL
10.	Pharmacognosy	MPG

The course of study for M.Pharm specializations shall include Semester wise Theory & Practical as given in Table – 2 to 11. The number of hours to be devoted to each theory and practical course in any semester shall not be less than that shown in Table – 2 to 11.



Table – 2: Course of study for M. Pharm. (Pharmaceutics)

Course Code	Course	Credit Hours	Credit Points	Hrs./week	Marks
Semester I					
MPH101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPH102T	Drug Delivery System	4	4	4	100
MPH103T	Modern Pharmaceutics	4	4	4	100
MPH104T	Regulatory Affair	4	4	4	100
MPH105P	Pharmaceutics Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPH201T	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	4	4	4	100
MPH202T	Advanced Biopharmaceutics & Pharmacokinetics	4	4	4	100
MPH203T	Computer Aided Drug Delivery System	4	4	4	100
MPH204T	Cosmetic and Cosmeceuticals	4	4	4	100
MPH205P	Pharmaceutics Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650



Table – 3: Course of study for M. Pharm. (Industrial Pharmacy)

Course Code	Course	Credit Hours	Credit Points	Hrs./week	Marks
Semester I					
MIP101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MIP102T	Pharmaceutical Formulation Development	4	4	4	100
MIP103T	Novel drug delivery systems	4	4	4	100
MIP104T	Intellectual Property Rights	4	4	4	100
MIP105P	Industrial Pharmacy Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MIP201T	Advanced Biopharmaceutics and Pharmacokinetics	4	4	4	100
MIP202T	Scale up and Technology Transfer	4	4	4	100
MIP203T	Pharmaceutical Production Technology	4	4	4	100
MIP204T	Entrepreneurship Management	4	4	4	100
MIP205P	Industrial Pharmacy Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650



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

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



Table - 5: Course of study for M. Pharm. (Pharmaceutical Analysis)

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
Semester I					
MPA101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPA102T	Advanced Pharmaceutical Analysis	4	4	4	100
MPA103T	Pharmaceutical Validation	4	4	4	100
MPA104T	Food Analysis	4	4	4	100
MPA105P	Pharmaceutical Analysis Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPA201T	Advanced Instrumental Analysis	4	4	4	100
MPA202T	Modern Bio-Analytical Techniques	4	4	4	100
MPA203T	Quality Control and Quality Assurance	4	4	4	100
MPA204T	Herbal and Cosmetic Analysis	4	4	4	100
MPA205P	Pharmaceutical Analysis Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650



Table - 6: Course of study for M. Pharm. (Pharmaceutical Quality Assurance)

Course Code	Course	Credit Hours	Credit Points	Hrs./week	Marks
Semester I					
MQA101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MQA102T	Quality Management System	4	4	4	100
MQA103T	Quality Control and Quality Assurance	4	4	4	100
MQA104T	Product Development and Technology Transfer	4	4	4	100
MQA105P	Pharmaceutical Quality Assurance Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MQA201T	Hazards and Safety Management	4	4	4	100
MQA202T	Pharmaceutical Validation	4	4	4	100
MQA203T	Audits and Regulatory Compliance	4	4	4	100
MQA204T	Pharmaceutical Manufacturing Technology	4	4	4	100
MQA205P	Pharmaceutical Quality Assurance Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650



Table - 7: Course of study for M. Pharm. (Regulatory Affairs)

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
Semester I					
MRA 101T	Good Regulatory Practices	4	4	4	100
MRA 102T	Documentation and Regulatory Writing	4	4	4	100
MRA 103T	Clinical Research Regulations	4	4	4	100
MRA 104T	Regulations and Legislation for Drugs & Cosmetics, Medical Devices, Biologicals & Herbals, and Food & Nutraceuticals In India and Intellectual Property Rights	4	4	4	100
MRA 105P	Regulatory Affairs Practical I	12	6	12	150
	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650
Semester II					
MRA 201T	Regulatory Aspects of Drugs & Cosmetics	4	4	4	100
MRA 202T	Regulatory Aspects of Herbal & Biologicals	4	4	4	100
MRA 203T	Regulatory Aspects of Medical Devices	4	4	4	100
MRA 204T	Regulatory Aspects of Food & Nutraceuticals	4	4	4	100
MRA 205P	Regulatory Affairs Practical II	12	6	12	150
	Seminar/Assignment	7	4	7	100
	Total	35	26	35	650



Table – 8: Course of study for M. Pharm. (Pharmaceutical Biotechnology)

Course Code	Course	Credit Hours	Credit Points	Hrs./week	Marks
Semester I					
MPB 101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPB 102T	Microbial And Cellular Biology	4	4	4	100
MPB 103T	Bioprocess Engineering and Technology	4	4	4	100
MPB 104T	Advanced Pharmaceutical Biotechnology	4	4	4	100
MPB 105P	Pharmaceutical Biotechnology Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPB 201T	Proteins and protein Formulation	4	4	4	100
MPB 202T	Immunotechnology	4	4	4	100
MPB 203T	Bioinformatics and Computer Technology	4	4	4	100
MPB 204T	Biological Evaluation of Drug Therapy	4	4	4	100
MPB 205P	Pharmaceutical Biotechnology Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650



Table - 9: Course of study for M. Pharm. (Pharmacy Practice)

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
Semester I					
MPP 101T	Clinical Pharmacy Practice	4	4	4	100
MPP 102T	Pharmacotherapeutics-I	4	4	4	100
MPP 103T	Hospital & Community Pharmacy	4	4	4	100
MPP 104T	Clinical Research	4	4	4	100
MPP 105P	Pharmacy Practice Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPP 201T	Principles of Quality Use of Medicines	4	4	4	100
MPP 102T	Pharmacotherapeutics II	4	4	4	100
MPP 203T	Clinical Pharmacokinetics and Therapeutic Drug Monitoring	4	4	4	100
MPP 204T	Pharmacoepidemiology & Pharmacoeconomics	4	4	4	100
MPP 205P	Pharmacy Practice Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650



Table - 10: Course of study for (Pharmacology)

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
Semester I					
MPL 101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPL 102T	Advanced Pharmacology-I	4	4	4	100
MPL 103T	Pharmacological and Toxicological Screening Methods-I	4	4	4	100
MPL 104T	Cellular and Molecular Pharmacology	4	4	4	100
MPL 105P	Pharmacology Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPL 201T	Advanced Pharmacology II	4	4	4	100
MPL 202T	Pharmacological and Toxicological Screening Methods-II	4	4	4	100
MPL 203T	Principles of Drug Discovery	4	4	4	100
MPL 204T	Experimental Pharmacology practical- II	4	4	4	100
MPL 205P	Pharmacology Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650



Table - 11: Course of study for M. Pharm. (Pharmacognosy)

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
Semester I					
MPG101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPG102T	Advanced Pharmacognosy-I	4	4	4	100
MPG103T	Phytochemistry	4	4	4	100
MPG104T	Industrial Pharmacognostical Technology	4	4	4	100
MPG105P	Pharmacognosy Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPG201T	Medicinal Plant biotechnology	4	4	4	100
MPG102T	Advanced Pharmacognosy-II	4	4	4	100
MPG203T	Indian system of medicine	4	4	4	100
MPG204T	Herbal cosmetics	4	4	4	100
MPG205P	Pharmacognosy Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650



Table – 12: Course of study for M. Pharm. III Semester
(Common for All Specializations)

Course Code	Course	Credit Hours	Credit Points
MRM 301T	Research Methodology and Biostatistics*	4	4
-	Journal club	1	1
-	Discussion / Presentation (Proposal Presentation)	2	2
-	Research Work	28	14
Total		35	21

* Non University Exam

Table – 13: Course of study for M. Pharm. IV Semester
(Common for All Specializations)

Course Code	Course	Credit Hours	Credit Points
-	Journal Club	1	1
-	Research Work	31	16
-	Discussion/Final Presentation	3	3
Total		35	20

Table – 14: Semester wise credits distribution

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

*Credit Points for Co-curricular Activities



Table – 15: Guidelines for Awarding Credit Points for Co-curricular Activities

Name of the Activity	Maximum Credit Points Eligible / Activity
Participation in National Level Seminar/Conference/Workshop/Symposium/ Training Programs (related to the specialization of the student)	01
Participation in international Level Seminar/Conference/Workshop/Symposium/ Training Programs (related to the specialization of the student)	02
Academic Award/Research Award from State Level/National Agencies	01
Academic Award/Research Award from International Agencies	02
Research / Review Publication in National Journals (Indexed in Scopus / Web of Science)	01
Research / Review Publication in International Journals (Indexed in Scopus / Web of Science)	02

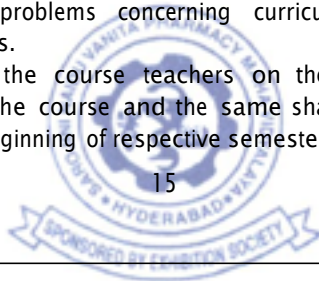
Note: International Conference: Held Outside India

International Journal: The Editorial Board Outside India

*The credit points assigned for extracurricular and or co-curricular activities shall be given by the Principals of the colleges and the same shall be submitted to the University. The criteria to acquire this credit point shall be defined by the colleges from time to time.

10. Program Committee

1. The M. Pharm. programme shall have a Programme Committee constituted by the Head of the institution in consultation with all the Heads of the departments.
2. The composition of the Programme Committee shall be as follows:
A teacher at the cadre of Professor shall be the Chairperson; One Teacher from each M.Pharm specialization and four student representatives (two from each academic year), nominated by the Head of the institution.
3. Duties of the Programme Committee:
 - i. Periodically reviewing the progress of the classes.
 - ii. Discussing the problems concerning curriculum, syllabus and the conduct of classes.
 - iii. Discussing with the course teachers on the nature and scope of assessment for the course and the same shall be announced to the students at the beginning of respective semesters.



- iv. Communicating its recommendation to the Head of the institution on academic matters.
- v. The Programme Committee shall meet at least twice in a semester preferably at the end of each sessionalexam and before the end semester exam.

11. Examinations/Assessments

The schemes for internal assessment and end semester examinations are given in Table - 16.

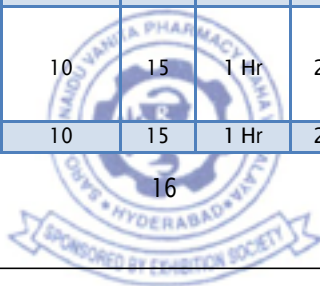
11.1. End semester examinations

The End Semester Examinations for each theory and practical course through semesters I to IV shall be conducted by the respective university except for the subject with asterix symbol (*) in table I and II for which examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.



Tables - 1616 : Schemes for internal assessments and end semester
(Pharmaceutics- MPH)

Course Code	Course	Internal Assessment			End Semester Exams			Total Marks
		Continu- ous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPH 101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPH 102T	Drug Delivery System	10	15	1 Hr	25	75	3 Hrs	100
MPH 103T	Modern Pharmaceutics	10	15	1 Hr	25	75	3 Hrs	100
MPH 104T	Regulatory Affair	10	15	1 Hr	25	75	3 Hrs	100
MPH 105P	Pharmaceutics Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPH 201T	Molecular Pharmaceutics(Nano Tech and Targeted DDS)	10	15	1 Hr	25	75	3 Hrs	100
MPH 202T	Advanced Biopharmaceutics & Pharmacokinetics	10	15	1 Hr	25	75	3 Hrs	100
MPH 203T	Computer Aided Drug Delivery System	10	15	1 Hr	25	75	3 Hrs	100
MPH	Cosmetic	10	15	1 Hr	25	75	3 Hrs	100

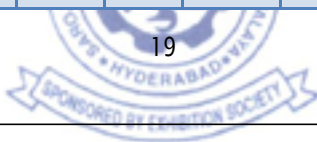


204T	and Cosmeceutic als							
MPH 205P	Pharmaceuti cs Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650



Tables - 1717 : Schemes for internal assessments and end semester
(Industrial Pharmacy- MIP)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MIP101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MIP102T	Pharmaceutical Formulation Development	10	15	1 Hr	25	75	3 Hrs	100
MIP103T	Novel drug delivery systems	10	15	1 Hr	25	75	3 Hrs	100
MIP104T	Intellectual Property Rights	10	15	1 Hr	25	75	3 Hrs	100
MIP105P	Industrial Pharmacy Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MIP201T	Advanced Biopharmaceutics and Pharmacokinetics	10	15	1 Hr	25	75	3 Hrs	100
MIP202T	Scale up and Technology Transfer	10	15	1 Hr	25	75	3 Hrs	100
MIP203T	Pharmaceutical Production Technology	10	15	1 Hr	25	75	3 Hrs	100
MIP204T	Entrepreneurship Management	10	15	1 Hr	25	75	3 Hrs	100



MIP205P	Industrial Pharmacy Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650



(Pharmaceutical Chemistry-MPC)

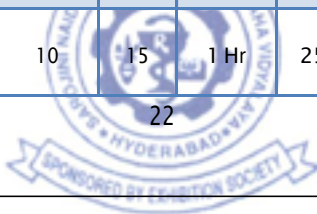
Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuus Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPC101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPC102T	Advanced Organic Chemistry -I	10	15	1 Hr	25	75	3 Hrs	100
MPC103T	Advanced Medicinal chemistry	10	15	1 Hr	25	75	3 Hrs	100
MPC104T	Chemistry of Natural Products	10	15	1 Hr	25	75	3 Hrs	100
MPC105P	Pharmaceutical Chemistry Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPC201T	Advanced Spectral Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPC202T	Advanced Organic Chemistry -II	10	15	1 Hr	25	75	3 Hrs	100
MPC203T	Computer Aided Drug Design	10	15	1 Hr	25	75	3 Hrs	100
MPC204T	Pharmaceutical Process Chemistry	10	15	1 Hr	25	75	3 Hrs	100
MPC205P	Pharmaceutical	20	30	6 Hrs	50	100	6	150



	al Chemistry Practical II						Hrs	
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650

Tables – 19: Schemes for internal assessments and end semester examinations (Pharmaceutical Analysis-MPA)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continu-ous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPA101T	Modern Pharmaceutical Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPA102T	Advanced Pharmaceutical Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPA103T	Pharmaceutical Validation	10	15	1 Hr	25	75	3 Hrs	100
MPA104T	Food Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPA105P	Pharmaceutical Analysis-I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPA201T	Advanced Instrumental Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPA202T	Modern Bio-Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPA203T	Quality Control and Quality	10	15	1 Hr	25	75	3 Hrs	100

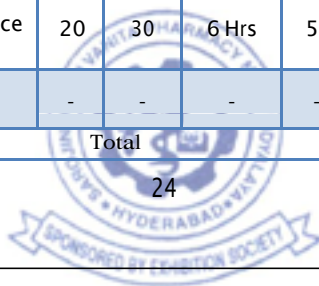


	Assurance							
MPA204T	Herbal and Cosmetic analysis	10	15	1 Hr	25	75	3 Hrs	100
MPA205P	Pharmaceuti cal Analysis- II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650



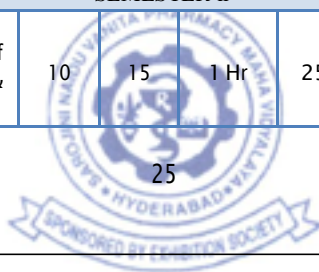
Tables – 20: Schemes for internal assessments and end semester examinations
(Pharmaceutical Quality Assurance-MQA)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MQA101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MQA102T	Quality Management System	10	15	1 Hr	25	75	3 Hrs	100
MQA103T	Quality Control and Quality Assurance	10	15	1 Hr	25	75	3 Hrs	100
MQA104T	Product Development and Technology Transfer	10	15	1 Hr	25	75	3 Hrs	100
MQA105P	Pharmaceutical Quality Assurance Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MQA201T	Hazards and Safety Management	10	15	1 Hr	25	75	3 Hrs	100
MQA202T	Pharmaceutical Validation	10	15	1 Hr	25	75	3 Hrs	100
MQA203T	Audits and Regulatory Compliance	10	15	1 Hr	25	75	3 Hrs	100
MQA204T	Pharmaceutical Manufacturing Technology	10	15	1 Hr	25	75	3 Hrs	100
MQA205P	Pharmaceutical Quality Assurance Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650



Tables – 21: Schemes for internal assessments and end semester examinations
(Pharmaceutical Regulatory Affairs-MRA)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuo us Mod e	Sessional Exams		Tot al	Mar ks	Dura tion	
			Mar ks	Durati on				
SEMESTER I								
MRA10 1T	Good Pharmaceutical Practices	10	15	1 Hr	25	75	3 Hrs	100
MRA10 2T	Documentation and Regulatory Writing	10	15	1 Hr	25	75	3 Hrs	100
MRA10 3T	Clinical Research Regulations	10	15	1 Hr	25	75	3 Hrs	100
MRA10 4T	Regulations and Legislation for Drugs & Cosmetics, Medical Devices, Biologicals & Herbals, and Food & Nutraceuticals In India and Intellectual Property Rights	10	15	1 Hr	25	75	3 Hrs	100
MRA10 5T	Pharmaceutical Regulatory Affairs Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MRA20 1T	Regulatory Aspects of Drugs & Cosmetics	10	15	1 Hr	25	75	3 Hrs	100

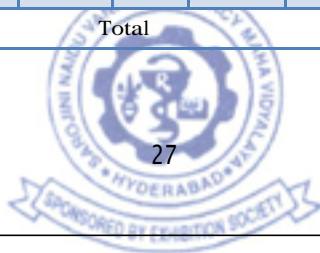


MRA20 2T	Regulatory Aspects of Herbal & Biologicals	10	15	1 Hr	25	75	3 Hrs	100
MRA20 3T	Regulatory Aspects of Medical Devices	10	15	1 Hr	25	75	3 Hrs	100
MRA20 4T	Regulatory Aspects of Food & Nutraceuticals	10	15	1 Hr	25	75	3 Hrs	100
MRA20 5P	Pharmaceutical Regulatory Affairs Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650



Tables – 22: Schemes for internal assessments and end semester examinations
(Pharmaceutical Biotechnology-MPB)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPB10 1T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPB10 2T	Microbial And Cellular Biology	10	15	1 Hr	25	75	3 Hrs	100
MPB10 3T	Bioprocess Engineering and Technology	10	15	1 Hr	25	75	3 Hrs	100
MPB10 4T	Advanced Pharmaceutical Biotechnology	10	15	1 Hr	25	75	3 Hrs	100
MPB10 5P	Pharmaceutical Biotechnology Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPB20 1T	Proteins and protein Formulation	10	15	1 Hr	25	75	3 Hrs	100
MPB20 2T	Immunotechnology	10	15	1 Hr	25	75	3 Hrs	100
MPB20 3T	Bioinformatics and Computer Technology	10	15	1 Hr	25	75	3 Hrs	100
MPB20 4T	Biological Evaluation of Drug Therapy	10	15	1 Hr	25	75	3 Hrs	100
MPB20 5P	Pharmaceutical Biotechnology Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650



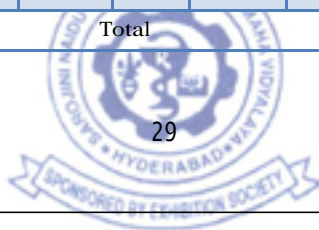
Tables – 23: Schemes for internal assessments and end semester examinations
(Pharmacy Practice-MPP)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPP10 1T	Clinical Pharmacy Practice	10	15	1 Hr	25	75	3 Hrs	100
MPP10 2T	Pharmacotherapeutic s-I	10	15	1 Hr	25	75	3 Hrs	100
MPP10 3T	Hospital & Community Pharmacy	10	15	1 Hr	25	75	3 Hrs	100
MPP10 4T	Clinical Research	10	15	1 Hr	25	75	3 Hrs	100
MPP10 5P	Pharmacy Practice Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPP20 1T	Principles of Quality Use of Medicines	10	15	1 Hr	25	75	3 Hrs	100
MPP10 2T	Pharmacotherapeutic s II	10	15	1 Hr	25	75	3 Hrs	100
MPP20 3T	Clinical Pharmacokinetics and Therapeutic Drug Monitoring	10	15	1 Hr	25	75	3 Hrs	100
MPP20 4T	Pharmacoepidemiology & Pharmacoeconomics	10	15	1 Hr	25	75	3 Hrs	100
MPP20 5P	Pharmacy Practice Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650



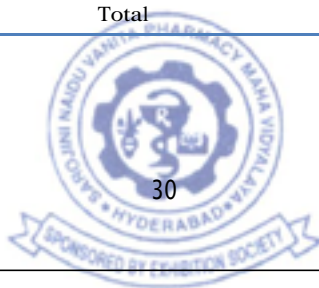
Tables - 24: Schemes for internal assessments and end semester examinations
(Pharmacology-MPL)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPL10 1T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPL10 2T	Advanced Pharmacology-I	10	15	1 Hr	25	75	3 Hrs	100
MPL10 3T	Pharmacological and Toxicological Screening Methods-I	10	15	1 Hr	25	75	3 Hrs	100
MPL10 4T	Cellular and Molecular Pharmacology	10	15	1 Hr	25	75	3 Hrs	100
MPL10 5P	Experimental Pharmacology - I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPL20 1T	Advanced Pharmacology II	10	15	1 Hr	25	75	3 Hrs	100
MPL10 2T	Pharmacological and Toxicological Screening Methods-II	10	15	1 Hr	25	75	3 Hrs	100
MPL20 3T	Principles of Drug Discovery	10	15	1 Hr	25	75	3 Hrs	100
MPL20 4T	Clinical research and pharmacovigilance	10	15	1 Hr	25	75	3 Hrs	100
MPL20 5P	Experimental Pharmacology - II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650



Tables – 25: Schemes for internal assessments and end semester examinations
(Pharmacognosy-MPG)

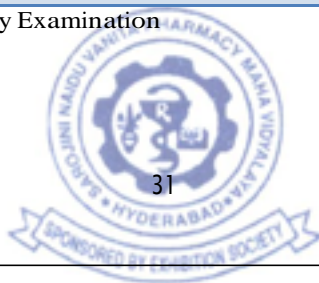
Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continu- ous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPG10 1T	Modern Pharmaceutica l Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPG10 2T	Advanced Pharmacognos y-I	10	15	1 Hr	25	75	3 Hrs	100
MPG10 3T	Phytochemistr y	10	15	1 Hr	25	75	3 Hrs	100
MPG10 4T	Industrial Pharmacognos tical Technology	10	15	1 Hr	25	75	3 Hrs	100
MPG10 5P	Pharmacognos y Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPG20 1T	Medicinal Plant biotechnology	10	15	1 Hr	25	75	3 Hrs	100
MPG10 2T	Advanced Pharmacognos y-II	10	15	1 Hr	25	75	3 Hrs	100
MPG20 3T	Indian system of medicine	10	15	1 Hr	25	75	3 Hrs	100
MPG20 4T	Herbal cosmetics	10	15	1 Hr	25	75	3 Hrs	100
MPG20 5P	Pharmacognos y Practical II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650



Tables – 26: Schemes for internal assessments and end semester examinations
(Semester III& IV)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER III								
MRM301T	Research Methodology and Biostatistics*	10	15	1 Hr	25	75	3 Hrs	100
-	Journal club	-	-	-	25	-	-	25
-	Discussion / Presentation (Proposal Presentation)	-	-	-	50	-	-	50
-	Research work*	-	-	-	-	350	1 Hr	350
Total								525
SEMESTER IV								
-	Journal club	-	-	-	25	-	-	25
-	Discussion / Presentation (Proposal Presentation)	-	-	-	75	-	-	75
-	Research work and Colloquium	-	-	-	-	400	1 Hr	400
Total								500

*Non University Examination



11.2. Internal assessment: Continuous mode

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

Table – 27: Scheme for awarding internal assessment: Continuous mode

Theory	
Criteria	Maximum Marks
Attendance (Refer Table – 28)	8
Student – Teacher interaction	2
Total	10
Practical	
Attendance (Refer Table – 28)	10
Based on Practical Records, Regular viva voce, etc.	10
Total	20

Table – 28: Guidelines for the allotment of marks for attendance

Percentage of Attendance	Theory	Practical
95 – 100	8	10
90 – 94	6	7.5
85 – 89	4	5
80 – 84	2	2.5
Less than 80	0	0

11.2.1. Sessional Exams

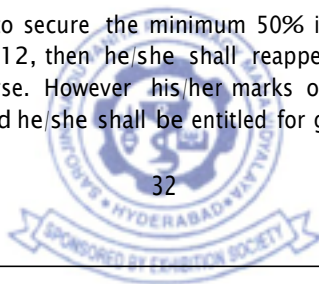
Two sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college(s). The scheme of question paper for theory and practical sessional examinations is given in the table. The average marks of two sessional exams shall be computed for internal assessment as per the requirements given in tables.

12. Promotion and award of grades

A student shall be declared PASS and eligible for getting grade in a course of M.Pharm. programme if he/she secures at least 50% marks in that particular course including internal assessment.

13. Carry forward of marks

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified in 12, then he/she shall reappear for the end semester examination of that course. However, his/her marks of the Internal Assessment shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.



14. Improvement of internal assessment

A student shall have the opportunity to improve his/her performance only once in the sessional exam component of the internal assessment. The re-conduct of the sessional exam shall be completed before the commencement of next end semester theory examinations.

15. Reexamination of end semester examinations

Reexamination of end semester examination shall be conducted as per the schedule given in table 29. The exact dates of examinations shall be notified from time to time.

Table – 29: Tentative schedule of end semester examinations

Semester	For Regular Candidates	For Failed Candidates
I and III	November / December	May / June
II and IV	May / June	November / December

16. Allowed to keep terms (ATKT):

No student shall be admitted to any examination unless he/she fulfills the norms given in 6. ATKT rules are applicable as follows:

A student shall be eligible to carry forward all the courses of I and II semesters till the III semester examinations. However, he/she shall not be eligible to attend the courses of IV semester until all the courses of I, II and III semesters are successfully completed.

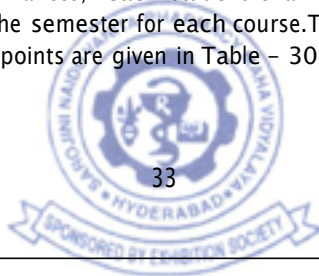
A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to IV semesters within the stipulated time period as per the norms.

Note: Grade AB should be considered as failed and treated as one head for deciding ATKT. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

17. Grading of performances

17.1. Letter grades and grade points allocations:

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and their corresponding grade points are given in Table – 30.



MASTER OF PHARMACY



PROGRAM

RULES & REGULATIONS

under

Choice Based Credit System with Grading System of Evaluation

(Effective from Academic Year 2015-2016)

FACULTY OF PHARMACY

OSMANIA UNIVERSITY

HYDERABAD – 500 007

Chairperson, BoS

Head of the Department

Dean of the Faculty

INTRODUCTION

The operationalization of Liberalization, Privatization and Globalization in the country has brought new opportunities and challenges in all areas of human endeavor including education. To make use of these opportunities effectively there is an immediate requirement for the revision of curriculum both at undergraduate and postgraduate level to incorporate the changes and additions to take care of the challenges posed by the new developments and advances in science and technology. Reviewing and updating of the curriculum is the essential ingredient of any vibrant university academic system. The present structure of pharmacy education is catering to the manpower needs of R & D and Industry, unlike the western countries that meet the requirements of pharmacy practice of clinical, community and hospital pharmacy. The Pharmacy Education, Research and Profession are facing a considerable challenge due to globalization of trade and services. It is expected that the academic bodies should develop appropriate strategies to strengthen the institutions and make them to remain competitive through innovative practices in education and research. The main focus of the program is highly purposive, innovative, which sets the pace for workable reforms adopted through CBCS in higher education that is more suitable and relevant to National and International demands and needs. The academic program that enriched with interdisciplinary approach shall become more attractive, flexible and marketable. The new revised curriculum is aimed to be compatible in tune with the recent developments in pharmacy education and research especially from other competitive disciplines such as chemistry, biotechnology and chemical engineering. This may allow innovative concepts to provide multidisciplinary profile by initiating new papers to cater to frontier developments in the concerned discipline. To meet the needs of society and to enhance the quality and standards of pharmacy education, updating and restructuring of the curriculum must be continued as a perpetual process. The new innovative courses formulated under SAIL in response to the pharmacy curriculum revisions based upon the growing awareness of the influence of ICT use and to remain competitive in a globalizing world by creating an active learning environment in order to build intellectual capital for societal needs.

This program is likely to train new generation scientists to explore the much needed knowledge on new developments in the drug discovery, drug delivery and drug development. In addition to this the development of character, knowledge, life-coping skills, professional advancement, ethics and values are to be the integral part of restructuring of educational programs. To establish a knowledge society of lifelong learning progression encompasses of learning to know, learning to do, learning to practice, learning to care, learning to be and become a perfect professional.

In this regard we have a specific Vision and Mission for the development of Pharmacy Curriculum based on the PCI and AICTE norms.

VISION:

To ensure the curriculum will meet the standards of pharmacy education in countries with advanced health care systems to improve the quality and standards of pharmaceutical services and also to meet the requirements of Research & Development and demands of Industry.

MISSION:

"To pursue and disseminate pharmaceutical knowledge and also to impart skills through quality teaching, research and service development aimed at improving the health standards of all"

OBJECTIVES:

The objectives of the Post-Graduate Programs in Pharmacy at the Osmania University are:

- To make instruction more broad-based at par with global standards and ensure high level of performance in teaching, research and practice;
- To improve the scientific and technical manpower of the highest quality to cater the needs of the growth sectors of economy in general and industry in specific;
- To provide a deep understanding of the area of specialization in the context of the professional needs of the community and the national priorities in the health and pharmacy sector and take them into account while planning professional strategies;
- To deliver a paradigm shift in the national education policy seeking to bridge an increasing gap between qualification and employability.
- To play the assigned role in the implementation of National Health Policy, National Drug Policy etc. effectively and responsibly;
- To demonstrate competence in basic concepts of research methodology and be able to critically analyze relevant published research literature;
- To use educational methods and techniques as applicable to the teaching of pharmacy students and other health professionals;
- To learn continually and also interact with inter and multidisciplinary groups;
- To empower the students and help them in their pursuit for achieving overall excellence;
- To develop the students with a capability at the end of PG program for:
 - Free and Objective Enquiry;
 - Innovative Ability to solve New Problems
 - Courage and Integrity in Practicing the Profession Ethically
 - Awareness and Sensitivity to the Needs and Aspirations of Society
 - Skills as a self-directed learner, and function as an effective leader of a health team engaged in health care, research or training.

With these objectives in mind, the postgraduate programs are designed to include courses of study, seminars and research project/dissertation through which a student may develop his/her new research and innovative concepts and intellectual skills.

Keeping in view the general objectives of postgraduate training, each discipline shall aim at development of specific competencies which shall be defined and spelt out in clear terms. Each department shall produce a statement and bring it to the notice of the trainees in the beginning of the program so that he can direct the efforts towards the attainment of these competencies.

The procedures and requirements stated in this manual embody the philosophy of the postgraduate education and ensure a high standard of performance at the Institute.

To ensure uniformity and quality in higher education system under CBCS of post graduate program including duration of study, this manual depicts the details of eligibility criteria for admissions, interpretation and weightage of credits among courses, mode of instruction, standardization of examination, grading system of evaluation and other related aspects.

The following academic rules and regulations are recommended.

RULES AND REGULATIONS UNDER CBCS (Effective from Academic Year 2015 – 2016)

All the Rules and Regulations, hereinafter, specified for Post Graduate Programs in Pharmacy of Osmania University should be read as a whole for the purpose of interpretation. These Rules and Regulations can change any or all parts on the recommendation of the Standing Committee of Senate/Faculty/BoS, at any time considered appropriate by the Senate.

ELIGIBILITY FOR ADMISSION

1. All the applicants for the M. Pharm (Regular) Program should have passed the B. Pharm Degree examination of Osmania University or any other examination recognized by the Osmania University as equivalent thereto and passed the Graduate Pharmacy Aptitude Test (GPAT) / PGECET of Telangana State and selected strictly on the basis of merit.

Vacancies remaining after allotment of seats to GPAT qualified candidates are open to candidates who have passed the B. Pharm Degree examination of Osmania University or any other examination equivalent thereto with minimum 55% aggregate marks and passed the entrance examination as prescribed by the Osmania University.

The University may decide to restrict admission in any particular year to candidates having the subset of qualifications prescribed at the time of admission.

FOR CONVENER CATEGORY

2. The candidates will be admitted strictly in accordance with the merit secured at the GPAT/PGECET of Telangana State keeping in view the rules in force regarding the reservation of seats to various categories of candidates.

No admission/ readmission/ promotions to be made after four weeks of the commencement of instruction in the semester. In case there are any court cases consequent on which the Convener of admissions is compelled to admit any one after the announced last date of admissions, the admission (seat) of such a student is reserved for the subsequent year on a supernumerary basis.

FOR SPONSORED CATEGORY

3. i) No employee shall be admitted to master of pharmacy course unless he/she produces proof of having taken leave for the total period of the course
ii) Employees of Research/Industrial/Academic establishments situated under the local area category of Osmania University, with at least 2 years of experience after B. Pharm degree eligible for admission to the M. Pharm degree course, provided they are sponsored by the establishment and they pass B. Pharm and having 55% Marks and the PGECET/GPAT as required by the regular candidates as prescribed by the University, the total number of such candidates admitted shall be as approved by the AICTE.

FOR MANAGEMENT CATEGORY IN AFFILIATED COLLEGES

4. Adhere to the rules and regulations prescribed by the Government of Telangana State from time to time and also to obtain the approval of Convener, Admissions of the State and Director of Admissions of Osmania University in concurrence with TSCHE guidelines.
-

RESPONSIBILITY OF ADMITTED CANDIDATES

- Candidates shall be admitted only under 'Full-Time' basis. He/she should be available in the departments during the entire duration of working hours (From Morning to Evening) for the curricular, co-curricular and extra-curricular activities.
- The candidates should not attend any other Full-time Program(s)/Course(s) or take up any Full-Time Job. In any Institution/Company during the period of program.
- The admitted students need to adhere the code of ethics and norms of the program and as well as institution. Violation of the rules and regulations will result in cancellation of admission.

ACADEMIC PROGRAMS

- All the Post Graduate degree programs offered by the University are structured and their academic requirements are spelt out by the number of course credits. Programs are designed in such a way that a student will be able to finish the program in a stipulated number of semesters.
- The four semesters M. Pharm (Regular) Programs offered by the Osmania University under the Faculty of Pharmacy are M. Pharm with Specialization in Specific Disciplines / Subjects as indicated in Scheme of Instructions as approved by the Board of Studies and Faculty are only being offered by the affiliated colleges of Osmania University from time to time.

No.	Program with Specialization	Program Code
1.	M.Pharm (Pharmaceutical Chemistry)	884
2.	M.Pharm (Pharmaceutical Analysis)	885
3.	M.Pharm (Pharmaceutics)	886
4.	M.Pharm (Pharmacology)	887
5.	M.Pharm (Pharmacognosy)	888
6.	M.Pharm (Pharmacy Practice)	889
7.	M.Pharm (Pharmaceutical Biotechnology)	
8.	M.Pharm (Pharmaco Informatics)	
9.	M.Pharm (Regulatory Affairs)	

Note: The New Programs will be added from time to time with the University Approval.

- A program wise catalogues along with program structure should be prepared in detail for all the academic programs offered by the University / Institution. Each catalogue should contain other details like course wise choices available, syllabi, learning objectives & outcomes and workload (Hours of instruction for Lecture/Tutorial/Practical), expressed in terms of credits. In addition to the above it should furnish the pre-requisites and the instructor who is offering the course and the time slot may be made available in the University/Institutional website/time-table displayed on notice board of the Department / College. The course will be offered once depending upon the availability of faculty and resources.
- With due approval of the University authorities, external faculty / agency / industry may also be permitted to offer Non-CGPA courses. The Academic Coordinator shall review the course content and assign appropriate credits and recommend the same to the BoS and Faculty for approval.

ATTRIBUTES AND DURATION OF THE PROGRAMS

13. A Post-Graduate Attributes as follows:

- i. Acquire the advanced knowledge and skills.
- ii. Understand the subject critically, demonstrate mastery and innovation.
- iii. Able to complete substantial research & dissertation.

14. The New Academic Policy under CBCS facilitates integral/holistic development of the students and fulfils the Objectives of the Program and University including value inculcation and service to humanity. Every student should successfully complete a minimum of mandatory Non-CGPA credits for award of degree by successfully completing the programs / trainings in the areas of choice of the students from among those approved by the Department.

15. The each course of the program defines Learning Objectives and Learning Outcomes.

16. The normal duration of the program is Two Academic Years (4 semesters). In each of the first two semesters, there shall be course work comprising of

Instruction - 15 Weeks minimum and Examination - 2 Weeks minimum

The third & fourth semester shall be exclusively for dissertation work. However, the dissertation work shall be allotted by the end of second semester.

The teaching contact hours per Semester is in the range of 450 – 500 hours out of 600 hours not exceeding 1800 hours for whole course of two years and the remaining hours are allocated for Co and Extra-curricular activities for holistic development of student.

17. Candidates who fail to fulfill all the requirements for the award of the degree as specified hereinafter within 4 Yrs from the time of admission, will forfeit his or her seat in the course.

- a) No candidate shall be allowed to put in attendance or appear at examination for different degrees and different faculties at one and the same time.
- b) Every student shall attend seminars, conferences, and guest lectures during academic year as prescribed by the Department and not absent him/herself without prior permission.

MIGRATION / TRANSFER

18. Migration/Transfer of students undergoing any Post Graduate degree course shall not be permitted by any institution affiliated to a university or any authority and shall be governed by the policy of the Pharmacy Council of India in this regard.

ALMANAC

19. The University at the commencement of the course shall notify the duration of the program of instructions, examinations and vacation.

The Academic Year is as follows:

- 180 Working Days per Year/ 90 Working Days per Semester
- 30 Weeks of Class Room Teaching in a Year/15 Weeks of Instruction per Semester
- 52 weeks in a year to include
 - i. 12-14 Weeks are allocated for Admission and Examination
 - ii. 6 - 8 Weeks for Vacation
 - iii. 2 Weeks for Public Holidays

The Academic Schedule shall be notified by the university at the start of each Academic Year.

INSTRUCTION

20. The Medium of Instruction is English and the Semester System of Education shall be followed across the Osmania University and its affiliated colleges at Post Graduate level.
21. All PG programs offered under Faculty of Pharmacy shall have structural commonality and the common courses shall be offered together, irrespective of the ultimate degree to be awarded, to provide easy professional linkage, communication and group activity.
22. A student admitted to a PG Program shall study to earn credits specified in the course structure.
23. Faculty Mentoring System is a special feature in this Scheme of Instruction. Each student is assigned to a Faculty member who will act as a mentor during the campus life of the student in all relevant academic matters. Students should make use of this facility to their best advantage. The student is advised to draw up a plan of study in consultation with the Mentor.
24. The Instruction of the Program will be organized around the Choice Based Credit System (CBCS). Each course will have a certain number of credits which will describe its weightage.
25. The minimum credit requirement for Master's Degree is 80 – 96 Valid Credits enumerated under CGPA for a Professional Program including a minimum of 48 credits of course work and balance credits of the dissertation / project work.
26. Any student who desires to be part of holistic development obtain mandatory Non-CGPA credits at any point of time during regular course of study.
27. An Academic Coordinator to be appointed by the Head of the Department to help the students in planning their courses of study and general advice on the academic program throughout the period of study and also needs to maintain all records pertaining to his function..
28. The Academic Coordinator need to sensitize the students on rules and regulations of M.Pharm Program and shall advise the students in regard to the minimum and the maximum number of total credits required for PG Program and Credits to be acquired in the context of his/her past performance, backlog of courses, SGPA/CGPA. Further he is also required to guide and counsel on choice of courses of individual interest and employment potentiality.
29. The Academic Coordinator is responsible for analyzing the performance of the students of the class after each test and finding the ways and means of improving the students' performance.
30. A purposeful networking between the professional domain and educational domain shall be established through Industry-Institute Interaction Linkages.
31. The department / institute shall provide orientation on course of studies based on individual needs, and flexible curriculum requirements, availability of facilities and faculty resources.
32. The Courses are divided into three domains
 - i. Core (Minimum - 60%) – To be Delivered through Formal Mode Only
 - o To be offered in Every Semester.
 - o Unique to the Program and to be compulsorily studied - essential requirement to complete or earn the degree in a said discipline of study.
 - o Core courses may consists of some common or limited subjects / papers, which include Program Specific and Discipline Specific core courses.

- Program Specific core courses are essential and common to all disciplines or specializations offered under that Faculty / Department
 - Discipline Specific core courses are limited and open to certain disciplines or specializations of Post Graduate Program.
 - This may enable for strong professional bonding and facilitate all innovations possible and workable.
 - ii. Elective (Minimum - 20%) – To be Delivered through Formal and Non-Formal Mode
 - Depending upon the aptitude, interest and future plans a Post Graduate student may choose an elective of choice among the approved courses offered by any of the Department of Faculty of Pharmacy of the University/Affiliated Institutions.
 - Elective Course is offered to Nurture Student's Proficiency/Skill and can be **Chosen from a Pool of Papers** through option of Specificity and Choice or It may be
 - a) Discipline Centric - Specific
 - Supportive to the Discipline of Study or Providing an Expanded Scope
 - b) Interdisciplinary - Specific
 - Facilitating an Acquaintance with Allied Discipline/Domain of Relevance
 - c) Open Stream/Option - Choice
 - Enabling an Exposure among other Disciplines/Domains of Relevance
 - iii. Foundation (Maximum - 20%) – To be Delivered through Formal or Non-Formal Mode
 - a) Compulsory Foundation - Knowledge / Skill Enhancement - Specific
 - b) Generic Foundation - Value-based + Man-Making Education - Choice
- Note: Compulsory Foundation Courses - Mandatory for All Disciplines/Specializations and such courses are offered by specific program based Departments
33. A SAIL (Self Access Interactive Learning) course is being offered as Non-CGPA credit course can be treated as an add-on (elective/foundation) course and are designed to acquire a special / advanced knowledge, such as to supplement the regular course of study / support study to a project work. A candidate need to fulfil the mandatory requirements and may opt for such a course on his own with an advisory support by a teacher in a self directed learning mode.
34. A student will have a choice of selecting an Elective as well as Foundation courses (Except Mandatory) from a pool of courses. She/he will have a choice of selecting such courses from the same department/faculty or the other department/faculty depending upon his/her interest, need, long term goals and also feasibility in terms of available expertise and infrastructure.
35. A student can exercise the option to decide his/her own pace of learning-slow, normal or accelerated plan and sequence his/her choice of courses among add-on disciplines and may venture out to acquire extra credits for upgradation of knowledge or proficiency.
36. The training of PG students shall involve learning experience 'derived from' or 'targeted to' the needs of the profession and community.
37. The Curriculum and Syllabi of all the P.G. Programs shall be approved by the Academic Statutory Bodies of the Osmania University.
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REGISTRATION OF COURSES

38. Each course (Core/Elective/Foundation/Non-CGPA) offered under CBCS is enlisted in the appropriate department provided with a unique course code representing the faculty (two alphabets), level (two digits), program (three digits), semester (one digit), course title (one digit) and mode of instruction (One Alphabet).
39. Under CBCS every student need to register for a set of *Courses (5 - 6)* in each *Semester*, with the average of total number of *Credits* being limited for a program by considering the permissible *weekly Contact Hours (Typically: 30 Hours/Week)*;
- i. **Registration Process**

Depending upon the availability of courses in each semester every student must register for the courses in a prescribed form (triplicate) duly signed by the candidate, designated Student Advisor/Counselor/Mentor and the Head of Department (within the deadline notified in the academic calendar). Student have an option to choose the electives and Non-CGPA courses. Late registration may be allowed up to 2 weeks after the commencement of the semester. The student should meet the criteria of prerequisites wherever required to become eligible to register for that particular course. Further the registration will be either first come first or merit in specified qualification basis. *The University / Institution reserves the right to cancel any course limited for choice due to insufficient registration (Less than 10) and to phase out any program for lack of demand.*
 - ii. **Enrollment Limit**

A student shall be permitted to register a minimum of 20 Credits and a maximum of 28 Credits per semester with an average of 24 Credits generally with maximum acceptable limit of contact hours. They have the flexibility to drop or add credits to the extent of 20% total average credits (4 Credits) of the respective semester within two weeks of registration among optional elective courses/non-CGPA credit courses. The maximum students to be registered in each course shall depend upon the available physical facilities and faculty.
 - iii. **Policies and Procedure for Dropping or Adding of Courses**

Withdrawal from a course shall be permitted up to 2 weeks from the date of registration. After registration, a student can drop a choice opted earlier and can substitute it by another choice based course with the consent of the Student Advisor and the Head of Department before the deadline for the withdrawal of the courses. Provided withdrawal from a course will not be permitted for those who undergo late registration.
 - iv. **Repetition of Courses**

Registration for repeat courses is allowed in excess of enrollment limit not exceeding 30 Credits in a Semester. Repetition of course is permitted only to pass the course as a prerequisite for promotion to next level of study not for the purpose of improving the grade.
 - v. **Auditing of Courses**

Students are permitted to register the courses outside the prescribed limit by attending the classes of a specific course to enrich the knowledge by paying audit fee for which no credit is awarded, as it enables the non-submission of assignments, not taking any exams and not receives any evaluation, then it is declared as audit course in the transcript card.

40. The Choice / Option exists for registration among Open or Discipline Specific Elective and Foundation (Mandatory Non-CGPA) Courses only within 2 Weeks of the commencement of the next semester to Specific Degree Program.
41. There will be Non-CGPA credits mandatorily to be acquired by the registered student not exceeding the 10% of Total CGPA credits either offered under SAIL and Seminar or Co and Extra-Curricular Activities not exceeding 2 credits each. There will be no end semester examination for these non-CGPA courses, however a separate Grade Weightage is awarded for each course through specified assessment and evaluation procedure.
42. The respective Departments/Colleges/Institutions shall provide instruction in various programs and courses in I & II semester. The dissertation work in the III & IV semester shall be done either at the Department/College/Institution or at any other place as approved by the university.
43. A student who wishes to study an approved course prescribed under Non-CGPA, while the course is not offered in a semester can opt for self-study or on non-formal mode. The Head of the Department / Academic Coordinator will allot a mentor to monitor and evaluate the performance of the student based on assignment and presentation in the form of seminar.
44. **Choice Based Credit System (CBCS)** is a versatile and flexible option for each student to achieve their target number of credits by using their choice both in terms of pace and sequence of courses. The students are given the privilege to choose any of the enlisted courses as elective / under SAIL which they have not studied before. Since every course is independent and self-contained, some courses with a limitation can be permitted to be registered by the students of other departments, enabling them for Interdisciplinary mobility.
45. The following is the course module suggested for the PG programs:

Semester	Domain	Nature	Credits
I Year – Course Work			
I	Core	Discipline Centric	12/14
	Elective	Interdisciplinary - Skill	6/4
		Mandatory - Skill	6
	Foundation (Non-CGPA)	Open – Knowledge / Value Addition	2
II	Core	Discipline Centric	12/16
		Interdisciplinary - Skill	6/4
	Elective	Discipline Centric/Open - Knowledge	4
	Foundation	Mandatory - Knowledge	4
	Elective/Foundation (Non-CGPA)	Open – Knowledge / Value Addition	2
II Year - Dissertation			
III	Core – Competency	Design Seminar	6
		Progressive Report and Seminar	10
IV	Core – Competency	Pre-Submission Seminar	10
		Submission and Adjudication Report	12
		Final Viva	2
	Co or Extra-Curricular (Non-CGPA)	NSS/NCC/Sports/Publication/Internship	2/4

46. The each Department of PG studies in Pharmacy need to offer two electives, one should be Discipline Centric and the other may be Open Stream elective course. The Discipline Centric elective to be offered for same discipline students and Open Stream elective to be offered for a n y other discipline / specialization students.
47. Students of all PG Programs shall select, study and successfully complete at least one Elective Course (either Discipline Centric or a number of accessible Open Stream Courses offered by any other Departments) in II Semester to earn at least four credits out of total credits.
48. Further all the PG students shall complete minimum mandatory Non-CGPA credit courses with two credits each in I & II semesters, the additional credits may be earned in duration of study. These are intended to allow students to acquire knowledge and skills in areas of their choice.
49. The number of credits to be earned for the successful completion of the Program shall be as specified in the Curriculum of the respective specialization of the P.G Programs.
50. Total Credits required for Master's Program

Total Credits	Minimum	Maximum
CGPA	88	96
Non-CGPA	4	8

51. The Curriculum of P.G. Programs shall be so designed that the prescribed credits required for the award of the degree shall be within the limits as following.
 - a) One credit for each lecture period allotted per week
 - b) One credit for each tutorial period allotted per week
 - c) Two credits for each practical sessions designed per week
 - d) Two credits Mandatory Non-CGPA courses allotted per semester
 - e) 16 and 24 Credits each for dissertation work in III and IV semesters.
 - f) Other credits as assigned in the curriculum mentioned in each respective specialization
52. In addition to satisfactory completion of the academic requirement, every student should successfully complete a minimum of Non-CGPA credits as per norms for the award of degree by taking SAIL courses / activities of student's choice from amongst those approved list to achieve the objectives of the academic, research and outreach deeds of the University.
53. The Students who complete the minimum number of credits required for the completion of the program shall be given an option to get the Degree with the best minimum credits required for graduation. Only the courses corresponding to the best minimum required credits will be listed in the consolidated statement of grades in a Transcript Card.

CREDIT TRANSFER FROM OTHER INSTITUTES

54. Depending on the feasibility and availability a maximum of four credits can be completed by the student in any of the national or reputed institutes/organizations/companies/industries. The Director/Principal of the College/Institute on the recommendation of Head and Academic Coordinator can fix this credit transfer mechanism with mutual consent/understanding from any of the empaneled institute. This facility extended for Non-CGPA credit courses only.

TEACHING – LEARNING -ENGAGEMENT

55. The Instruction is delivered both in Formal and Non-formal Mode depends upon type of course.
 - a) Formal Mode: Courses that delivered through Teacher Assisted Class Room Instruction
 - b) Non-Formal Mode: Courses that offered through Open, Distance, Virtual, On-line, Contact, Continuing, Extension, Experiential, Self-Learning etc.,
56. Teacher led instruction with learner-centric approach adopted to minimize teacher intervention for various SAIL courses that revolves around knowledge acquisition and practice learning.
57. ICT integrated delivery of education through PPT/Virtual mode and use of suitable audio/video contents from you tube will be added to make teaching-learning more interactive and interesting.
58. Learners will be encouraged to use NME-ICT/NPTEL accessed materials, blog, tweet, text and email by employing appropriate language in assignment submission and seminar presentation, further they are assigned to read/write/listen/view materials outside the classroom to report and gain proficiency and also enable for better participation in the class as well as in seminars.
59. A student is provided with an academically rich, highly flexible/integrated learning system also have an option of using MOOC's platform blended with abundant provision for skill practice and activity orientation that one could learn in depth without sacrificing their creativity.
60. The Head of the Department / Institution shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course (Subject) being taught.

COMMENCEMENT OF THE SEMESTER

61. At the beginning of II semester, the candidate shall register the courses in the prescribed proforma within four weeks from the commencement of the semester as notified in the academic schedule. The candidate who fails to register the courses as above or not fulfilling the academic requirements has to seek re-admission in the subsequent academic year.
62. The candidate shall require to register for the second year dissertation work within four weeks of commencement of second year, after being completing the course work requirements of both first and second semesters. The candidate who fails to register the dissertation work as above has to seek re-admission into the subsequent academic year. The candidate shall pursue the dissertation work till the end of the second year in which he has been admitted.

ATTENDANCE

63. Each course shall be taken as a unit for the purpose of calculating the attendance and each teacher shall mark the attendance in every hour of teaching of each course. The attendance will be counted from the date of commencement of classes as notified in each semester/almanac.
 64. The cumulative attendance of the students will be displayed on the Notice Board of the Dept. during first week of every subsequent month. However, it shall be the responsibility of the student to check his attendance periodically so as to ensure to put in the required attendance
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65. Certain Portion (Maximum of 20%) of Internal Assessment Marks shall be allotted for the regularity of the student in attending the classes.

ATTENDANCE MARKS	
Percentage Range	Marks
95.00 - 100.00	5
90.00 - 94.99	4
85.00 - 89.99	3
80.00 - 84.99	2
75.00 - 79.99	1

66. In order to appear at the final examination of I and II semester the candidate should have pursued a “Regular Course of Study” which means putting in attendance of not less than 75 % aggregate separately in the theory and practical subjects listed in the schemes of instruction offered in the semester taken together.
67. In order to appear at the final submission of dissertation of second year, the candidate should have put in attendance of not less than 75 % in the year and have passed in the both I and II semester examinations, in addition to fulfilling the other requirements of dissertation.

CONDONATION

68. Provided that in special cases and for sufficient cause shown, the Vice-Chancellor, on the recommendation of the principal, may condone the deficiency not exceeding 10 % in attendance for ill-health when the application submitted at the time of the actual illness is supported by a certificate from an authorized Medical Officer and approved by the principal. The fee for Condonation on Medical Officer and approved by the principal. The fee for Condonation on Medical grounds shall be as notified by University from time to time, also the candidate should have presented two seminars on the progress of dissertation work as notified by the college and a pre-submission seminar.
69. Attendance at NCC camps / Inter-collegiate / Inter-University / Inter-State / International matches/Debates/Educational excursions or such other Inter-University activities as approved by the authorities will not be counted as absence. However, such absence should not exceed 4 weeks of the total period of any semester or 8 weeks of the total period of second year.
70. In any of semesters of the course, if a candidate fails to secure the minimum percentage of attendance, he/she shall not be eligible to appear in the examination of that semester / year and he/she shall have to get readmitted himself into the corresponding semester / year in subsequent academic session in order to become eligible to appear for the examination. The candidate shall have to seek such readmission within four weeks from the date of commencement of the corresponding semester / year.
71. The attendance shall be calculated from the date of commencement of the classes as per the almanac communicated by the University.
72. The candidates who have put in not less than 40 % attendance in I semester can seek re-admission to the course during subsequent year and such admissions shall be treated as supernumerary. In respect of others who have put in less than 40 % attendance in I semester, they have to seek admission a fresh going through the process of admission.

EXAMINATION

73. An applicant for the admission to the M.Pharm examination of Osmania University shall complete a regular path of the study in the course prescribed for semester concerned for not less than a specific semester year in the University or its Affiliated Colleges.
74. The examinations are conducted at various stages (CIE and SEE) in a semester will facilitate in assessing the performance of students in terms of knowledge, skills and attitudes. The SEE shall be scheduled after the last working day of the semester as noted in the academic calendar.
75. The assessment of the theoretical component towards the end of the semester should be undertaken by both internal and external examiners from outside the university conducting examination, who may be appointed by the competent authority. In such courses, the question papers will be set by the approved external examiners.
76. In case of the assessment of practical component of such core courses, the team of examiners should be constituted on 50 – 50 % basis. i.e. half of the examiners in the team should be invited from outside the institution / university conducting examination.
77. In case of the assessment of dissertation work the evaluation should be undertaken for different components specified for III and IV Semesters by internal as well as external examiners.
78. The Division of Marks for Sessionals (based on Continuous Internal Evaluation by concerned teacher) and University Examinations (Semester End Examination) shall be as follows in addition to representation of Award of Grades on a 10 Point Scale:

Subject Evaluation	Sessional Marks	Exam Marks	Award of Grade Scale as per UGC			
			Grade	Merit	Grade Point	%
I Year – Course	Work		Θ	Outstanding	10	90.00 – 100.00
Theory	25	75	A+	Excellence	9	75.00 – 89.99
Practical	25	75	A	Very Good	8	60.00 – 74.99
II year – Dissertation			B+	Good	7	55.00 – 59.99
Seminar	50	-	B	Above Average	6	50.00 – 54.99
Report	50	-	C	Average	5	45.00 – 49.99
Pre- Viva	-	50	P	Pass	4	40.00 – 44.99
Adjudication	-	200	F	Fail	0	Below 40
Final Viva	-	50	Ab	Absent	0	-

79. The Award of Sessional Marks in I and II semesters shall be as follows:

Theory Paper		Practical Paper		Evaluation	SAIL	Seminar
Class Test	20 Marks	Practical Test	05 Marks	Assignment	25 Marks	25 Marks
Attendance/ Quiz	05 Marks	Comprehensive Evaluation	20 Marks	Presentation	25 Marks	25 Marks
Total	25 Marks	Total	25 Marks	Total	50 Marks	50 Marks

The I and II semesters, there shall be two class tests each of one hour duration. Both the class tests shall be considered for the evaluation of Sessional marks as part of Continuous Internal Evaluation. However the SAIL and Seminar are Mandatory in both Semesters evaluated by CIE will have to score minimum Grade though it is not part of CGPA computation.

80. In case a candidate fail to appear in any of the class tests due to Medical emergency requiring hospitalization or attendance at NCC camps / Inter-Collegiate / Inter-University / Inter-State / International Matches / Debates or such other inter University activities as approved by the University authorities, the candidate shall be allowed to take only one make up class test in those subjects as per convenience of the college / teacher concerned. The makeup test shall be counted as only one of the tests for the evaluation of sessional marks. This facility is given to the student if and only if the candidate personally or through parents informs the college on the day of hospitalization along with the Medical Certificate.
81. At the end of the I and II Semesters, University Examination shall be held as prescribed in the respective schemes of examination.

Course	At the end of I Semester		At the end of II Semester	
	Regular	Supplementary	Regular	Supplementary
M. Pharm	I sem.	II. Sem.	II sem.	I. Sem.

82. The University examinations at the end of I & II semester (Regular / Supplementary) prescribed for the M. Pharm degree shall be conducted by means of written papers, practicals or by means of any combination of these methods. The University examinations at the end of IV semester shall include evaluation of dissertation submitted and viva voce.
83. All the general rules for examination of Osmania University shall be adhered to.
84. A candidate shall be deemed to have fully passed the end semester examination of any semester, if he / she secures not less than the minimum marks as hereinafter prescribed.

University Examinations Pass Marks		Sessional Pass Marks	
I & II Semester	Minimum	I & II Semester	Minimum
Each Theory Subject	40 %		
Each Practical Subject	50 %		

85. If a candidate fails to secure the minimum marks in any subject of I and II semester examinations then he shall appear only in the failed subjects (backlog subjects) of the semester.
86. **Course Evaluation:** Continuous Internal Evaluation (CIE) and Semester End Evaluation (SEE) to constitute the major evaluations prescribed for each *Course*, with only those students maintaining a minimum standard in *CIE* (to be fixed by the institution) being permitted to appear in *SEE* of the *Course*; *CIE* and *SEE* to carry 25% and 75% each, to enable each *Course* to be evaluated for 100 marks, irrespective of its *Credits*; Absence from these evaluations or seminars or late submissions of assignments, will result in loss of marks.

87. **CIE:** To be normally conducted by the *Course Instructor* and include midterm/weekly/fortnightly class tests, home work, problem solving, group discussion, quiz, mini-project & seminar throughout the *Semester*, with weightage for the different components being fixed at the institutional level; *Instructor* also to discuss on *CIE* performance with students;
88. The Head / Principal / Director of the Department / College / Institute shall maintain in their office a complete record of the scores obtained by the candidates in the *CIE*.
89. **SEE:** To be normally conducted at the institutional level and cover the entire *Course Syllabi*; For this purpose, *Syllabi* to be modularized and *SEE* questions to be set from each module, with choice if any, to be confined to module concerned only. The questions to be comprehensive emphasizing analysis, synthesis, design, problems & numerical quantities;
90. There will be Mandatory Courses / Credits to be acquired as part of degree requirements will be awarded grades but will not be part of either SGPA or CGPA.
91. The proposed system discards the conventional emphasis on a single final examination and numerical marks as the absolute indication of the quality of student's performance.
92. Every student for the degree of Master of Pharmacy program II year shall be required to undertake a dissertation work involving methodical research under the supervision of an approved guide during III and IV semesters and submit three copies of the dissertation after completion, duly certified by the supervisor to the Head of the Department/Principal.
93. The Dissertation Evaluation follows Grade System of Evaluation based on the marks awarded at different stages of formative assessments and evaluation for their performance during III and IV semesters of II year of Post Graduate study.

Semester – III:

Scheme of Marks Distribution: Design Seminar - 50 Marks

No.	Design Seminar Content	Marks
1.	Selection of Research Topic and their Applicability	15
2.	Introduction	10
3.	Information Search and Retrieval Systems	10
4.	Skill in Oral Presentation	15
6.	Total	50

Scheme of Marks Distribution: Progressive Seminar - 50 Marks

No.	Progressive Seminar Content	Marks
1.	Aim and Objective of the Work	10
2.	Literature Review	15
3.	Conceptualizing the Present Work	10
4.	Proposing Experimental Methodology	15
6.	Total	50

Semester – IV:

Scheme of Marks Distribution: Pre-Submission Viva - 50 Marks

No.	Assessment of Dissertation Work	Marks
1.	Depth of Knowledge	15
2.	Content Presentation	10
3.	Regularity	10
4.	Overall Quality of the Work	15
5.	Total	50

- i. The registered candidate shall submit two copies of dissertation at the end of IV semester to the university through the Principal of the College duly certified by the supervisor / guide that the work has been done satisfactorily under his / her supervision / guidance.
- ii. No extension of time shall ordinarily be granted to a candidate for the submission of the dissertation. If the candidate fails to submit his/her dissertation within the prescribed date require to keep wait for one fresh term to consider for the evaluation after submitting the dissertation following due procedures.
- iii. One copy of the dissertation shall be send to the external examiner by the university among the approved panel of examiners by the BoS for evaluation & adjudication report.
- iv. The external examiner for M. Pharm examination shall be at least Ph.D. after master degree in Pharmacy and minimum five year of teaching experience out of which at least two years at the M. Pharm degree level.

Scheme of Marks Distribution: Dissertation Report Adjudication - 200 Marks

No.	Dissertation Report	Marks
1.	Contents	10
2.	Introduction	20
3.	Literature Review	20
4.	Experimental Work	50
5.	Results & Discussion	50
6.	Conclusion	10
7.	References	20
8.	Overall Presentation	20
	Total	200

- v. If any candidate fails to secure minimum marks required for passing IV Semester shall resubmit work with such an additional work as may be directed by the comments of external examiner for the subsequent evaluation of the dissertation. However if the candidate willing to submit dissertation a fresh in a new topic shall be required to re-join / re-admitted in the college as a regular student for both III and IV semesters of M. Pharm.

Scheme of Marks Distribution: Final Viva - 50 Marks

No.	Evaluation	Marks
1.	Presentation	10
2.	Content	15
3.	Communication	10
4.	Clarification based on Adjudication Report	15
6.	Total	50

- vi. The procedures described herein will enable the candidate to fulfill the requirements for the award of M.Pharm degree of the Faculty of Pharmacy, Osmania University.
- vii. An electronic / digital version copy of the final thesis must be presented to the Controller of Examinations, Osmania University and also to the ETD database of University Library of Osmania University in addition to a repository facility in the Department.
94. Unique methods of evaluation have been evolved to take account of participation of student in co and extra-curricular activities based on certain traits which do not surface in a classroom education, like interdisciplinary approach, professional judgment, rational thinking, decision making, initiative leadership, sense of responsibility, etc.
95. The performance and participation of the students in University's prestigious events/functions and outreach programs outside Department/Institution will be awarded marks as devised in the respective programs of relevance treating them under Non-CGPA credits. Further consider for award of grades based on the performance of the student winners of various events of Open, State and National level Competitions and students who represent the University in the State, Zonal or National Teams under Co and Extra-curricular activities under Non-CGPA credit courses.
96. The evaluation of Co and Extra-curricular activities based on non-scholastic areas of learning which includes attitudes, behavior, interests, values, participative experience, social interaction etc., and normally adheres to non-standardized assessment tools that ensures practicability, objectivity, reliability and validity by self-reporting and behavioral observation of the learner;
- i. Co-curricular Activities: The Co-curricular Activities includes active participation of students in debates / seminars / symposia / conferences / workshops / industrial visits / field work / guest lectures arranged organized by the institution.

Evaluation Pattern for Seminars/Symposia/Conference/Workshops

No.	Particulars	Max Marks
1.	Observation and Discussion Note on the Work	40
2.	Poster Presentation and Exhibition	10
3.	Oral Presentation	20
4.	Brief Report on Participation	20
5.	Sharing Experience with Department/Institution	10
	Total	100

The Assignment evaluation is normally based on student-centered learning exercises among the enlisted / identified topics given during a course at pre-determined intervals and according to the defined criteria in fulfillment of assessment requirements.

Evaluation Pattern for Assignment

No.	Particulars	Max Marks
1.	Identification of Topic	10
2.	Collection of Information	10
3.	Methodical Approach	10
4.	Written Report – Time Schedule	40
5.	References	10
6.	Presentation	20
	Total	100

Assessing the experiential learning acquired through extension activities

Evaluation Pattern for Industrial / Field Visits / Tours

No.	Particulars	Max Marks
1.	Written Report	50
2.	Attendance	10
3.	Behavior	10
4.	Tour Diary and Pocket Note Book	20
5.	Sharing of Experience with Department/Institution	10
	Total	100

- ii. Extra-curricular Activities: The students shall earn marks for all relevant activities, which includes Sports and Games, NCC, NSS etc., every student is expected to participate in the program for a minimum of 60 hours in a semester to become eligible for the credit. Every time the student participates/completes a task, the same is entered in the attendance register meant for the purpose and to be certified by the Academic Coordinator. At the end of the semester and will be awarded marks for participation as devised for the respective program.

Evaluation Pattern for Participation

No.	Particulars	Max Marks
1.	Attendance & Routine Activities	50
2.	Behavior	10
3.	Participation in Tournaments / Camps	20
4.	Brief Report	10
5.	Sharing of Views at Department / Institution	10
	Total	100

The Winners at University/State/National Events will be awarded additional credit weightage with relevant grades for National (*Outstanding* – ‘O’), State (*Excellence* - ‘A⁺’) and University (*Very Good* - ‘A’) under Non-CGPA credit courses.

RULES OF PROMOTION

No.	Promotion	Condition to be Fulfilled for Promotion
1.	From M. Pharm I Sem to M. Pharm II Sem	a) Regular course of study of M. Pharm I semester
2.	From M. Pharm II Sem to M. Pharm II Year	a) Regular course of study of M. Pharm II Semester. b) Should have passed I Semester.

97. A student who fails in theory or practical examination of a subject shall re-appear both in theory and practical of the same subject.

AWARD OF GRADE / DIVISION

98. The UGC/AICTE recommends the following system to be implemented in awarding the grades and CGPA under Choice Based Credit System (CBCS)/Credit Based Semester System (CBSS).
99. All assessments of a course will be done on operative marks basis and convert these marks to letter grades based on absolute or relative grading system. However, for the purpose of reporting the performance of a candidate, these letter grades each carrying certain point will be awarded as per the range of total marks obtained by the candidate as grade points.
100. Credit Points were derived for all papers / courses based on the product of credits allocated and grade points secured for each paper / course after evaluation.
101. At the end of a semester, based on the evaluation report, a student shall be awarded a letter grade in each course. A student is deemed to have passed and acquired the corresponding credits in a particular course
102. **Grading:** To be normally done using *Letter Grades* as qualitative measure of achievement in each *Course* like: *O (Outstanding)*, *A+ (Excellent)*, *A (Very Good)*, *B+ (Good)*, *B (Above Average)*, *C (Average)*, *P (Pass)*, *F (Fail)* and *Ab (Absent)*, based on the percentage (%) of marks scored in (*CIE+SEE*) of the *Course* and conversion to *Grade* done by *Relative/Absolute Grading*, the former being more useful;
103. **Grade Point (GP):** Students to earn *GP* for a *Course* based on its *Letter Grade*; e.g., on a typical 10-point scale, *GP* to be: *O=10*, *A+=09*, *A=08*, *B+=07*, *B=06*, *C=05*, *P=04* & *F=00*; Useful to assess students achievement quantitatively and to compute *Credit Points (CrP)= GP X Credits* for the *Course*; Student passing a *Course* only when getting $GP \geq 04$ (*P Grade*);
104. **Credit Point (CrP):** The Credit Point is the product of credits allocated and grade points secured for a paper or course by a student.
105. **Grade Point Average (GPA):** Computation of *Semester GPA (SGPA)* to be done by dividing the sum of *CrP* of all *Courses* by the total number of *Cr* registered in a Semester, leading finally to *CGPA* for evaluating student's performance at the end of two or more *Semesters* cumulatively; This reform serving as a better performance index than total marks or %;
106. **Passing Standards:** Passing shall be decided on the combined result of a Course/Paper i.e. on the combined result of *CIE* and *SEE*, unless he secures 40% in *SEE*.

107. **Performance Measure Standards:** Both *SGPA* & *CGPA* serving as useful performance measures in the *Semester System*; Student to be declared successful at the *Semester-end* or *Program-end* only when getting *SGPA* or *CGPA* ≥ 4.00 , with none of the *Courses* registered in a *Semester* or for the *Degree Award* remaining with *F Grade*;
108. **Credits Required for Degree Award:** Number of *Credits* to be earned by a student for the *PG (Professional) Degree Award* fixed by Universities/Institutions to be normally in the range of 80 (20/Sem.) to 100 (25/Sem.); Widely accepted value: 90 (22/Sem.); Also, each student to be successful in the *mandatory courses* as may be prescribed to qualify for the *Degree*;
109. **Relative Grading:** The relative grading is based on the distribution (usually normal distribution) of marks obtained by all the students of the course and the grades are awarded based on a cut-off marks or percentile.
110. **Absolute Grading:** Under the absolute grading, the marks are converted to grades based on pre-determined class intervals.
111. The University will normally follow relative grading system.

GUIDELINES FOR THE AWARD OF GRADES

112. Assessment is an integral part of system of education as it is instrumental in identifying and certifying the academic standards accomplished by a student and projecting them far and wide as an objective and impartial indicator of a student's performance. Thus, it becomes bounden duty of a University to ensure that it is carried out in fair manner.
113. "A teacher is the best judge in awarding the grades". However, he/she has to be impartial, logical and maintain complete transparency while awarding grades.
114. The following are the general guidelines for the award of grades:
- i. All evaluations of different components of a course announced in the course plan shall be done in marks for each student.
 - ii. The marks of various components shall be added to get total marks secured on a 100-point scale for theory courses and laboratory courses.
 - iii. For any course, the statistical method (Table) shall be used for the award of grades with or without marginal adjustment for natural cut off.
 - iv. The teacher will ensure the coverage of all the contents of a course taught during the semester. The end semester examinations question paper shall be within the prescribed syllabus. At the end of the semester a teacher will submit a complete course file having following documents.
 - a. Course Plan
 - b. Attendance Record
 - c. Tutorial Sheets/Assignment sheets
 - d. Question Papers of Periodical Tests
 - e. Quizzes
 - f. Complete Details of Marks with Final Grades

115. In case a student repeats a particular course on account of failure in a particular subject / course along with his/her juniors, he/she will be awarded only up to a maximum of 'A' Grade as per his/her performance and with respect to his/her earlier class.
116. A student earning Grade F shall be considered failed and be required to reappear in the exam.
117. Further it is recommended that the cut-off marks for grade 'B' shall not be less than 50% and for grade 'B+', it should not be less than 55% under the absolute grading system.

COMPUTATION OF SGPA AND CGPA

118. Adhere to the UGC recommendation for calculation of SGPA and CGPA

- i. Grade Letter and Grade Points for each paper are allocated after evaluating to 100 (All Papers of Theory and Practical's including Co and Extra-curricular activities)
- ii. The SGPA is the ratio of sum of the product (credit point) of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student.

The SGPA is computed using the following formula, i.e

$$\text{SGPA (Si)} = \frac{\sum(C_i \times G_i)}{\sum C_i}$$

Where C_i is the number of credits of the i^{th} course and G_i is the grade point scored by the student in the i^{th} course.

- iii. The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a program.

The CGPA is computed using the following formula, i.e.

$$\text{CGPA} = \frac{\sum(C_i \times S_i)}{\sum C_i}$$

Where S_i is the SGPA of the i^{th} semester and C_i is the total number of credits in that semester.

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

119. Illustration of SGPA and CGPA

i. Illustration of SGPA

Course Code	Credit	Grade	Grade Point	Credit X GP	Credit Point
PY.09.884.11.T	3	A	8	3X8	24
PY.09.888.12.T	3	B+	7	3X7	21
PY.09.884.13.T	4	B	6	4X6	24
PY.09.884.14.T	4	O	10	4X10	40
PY.09.884.15.T	4	C	5	4X5	20
PY.09.884.11.P	2	A+	9	2X9	18
PY.09.884.12.P	2	A	8	2X8	16
	22				163

Thus SGPA = $163/22 = 7.41$

Grade = A

ii. Illustration of CGPA

	Course Work		Dissertation	
	Semester - I	Semester -II	Semester - III	Semester - IV
Credits	22	22	16	24
SGPA	7.41	7.80	9.00	8.32
Thus, CGPA =	$22 \times 7.41 + 22 \times 7.80 + 16 \times 9.00 + 24 \times 8.32$			8.07
	84			
Grade = A⁺				

120. The SGPA score is calculated only if the candidate is passed in all the papers in a semester and the CGPA score is evaluated only if SGPA scores for all the semesters are available.

121. The consolidated report does not reflect the actual percentage of marks scored by the candidate in a specific examination and also to determine the rank secured by the candidate.

122. To get percentage of marks, multiply the CGPA with 10. Further it is to be evaluated due to unequal credit values for the papers or the Grade / Grade Points are assigned for a range of marks secured in each paper / course based on a ten point scale.

123. Therefore a conversion factor is evolved to reflect the nearly exact/average percentage of marks obtained by the candidate on relative grading using the following formula.

$$\text{Percentage of Marks} = (\text{CGPA} - 0.5) \times 10$$

124. The CGPA obtained as above shall be the base for the determination of Overall Grade for entire program and for the declaration of the result as follows. However, the overall %age of marks shall be shown in the marks statement of final semester.

CGPA / SGPA	GRADE	Performance	Result
10.00	O+	Extraordinary	Absolutely Outstanding
9.00 – 9.99	O	Outstanding	First Division with Distinction
7.50 – 8.99	A+	Excellence	
6.00 – 7.49	A	Very Good	First Division
5.50 – 5.99	B+	Good	Second Division
5.00 – 5.49	B	Above Average	
4.50 – 4.99	C	Average	Pass Division
4.00 -4.49	P	Pass	
< 4.00	F	Fail	Fail
0	Ab	Absent	

125. A student obtaining CGPA of 10.0 for both course work and dissertation will be awarded for an exceptional performance grade of 'O+' – Extraordinary for being 'Absolutely Outstanding'.
126. The statistical method shall invariably be used by the examination branch with marginal adjustment for the natural cut off. The mean and the standard deviation (σ) of marks obtained of all the students in a course shall be calculated and the grades shall be awarded to a student depending upon the marks and the mean and the standard deviation for declaration of rank.

TRANSCRIPT

127. Candidates who have passed all the examinations of the M. Pharm course shall be awarded based on the above recommendations on Letter Grades, Grade Points and SGPA and CGPA, the University may issue the transcript for each semester and a consolidated transcript indicating the performance in all semesters.
128. A Formula for conversion of Grade to Percentage and Division may be placed behind the Transcript Card in order to facilitate to know the marks secured by candidates in various semester examination.

Division	Percentage	Remarks
I with Distinction	Must Secure 75% and above	In Single Attempt
I	60% and above but less than 75%	Whose result declared qualified
II	50% and above but less than 60%	
Pass	40% and above but less than 50%	

IMPROVEMENT OF GRADE / DIVISION

129. A Candidate who wishes to improve his/her grade/division may do so within one academic year immediately after having passed all the examinations of the M. Pharm course, by reappearing either at I or II sem. (all subjects pertaining to the semester taken together) examinations. For the award of Grade, he / she will have the benefit of the higher of the two aggregates of marks secured in the corresponding semester provided the candidate passed the improvement examination fully. However he/she will be awarded only up to a maximum of 'A+' Grade as per his/her performance and with respect to his/her earlier Grade/Division. An 'Outstanding' Grade cannot be awarded to individuals in an improvement attempt.

GENERAL RULES OF EXAMINATIONS

130. All examinations shall be held at the places as it may be decided and at such other centers on such dates as may be notified.
131. Application for permission to appear at every examination shall be made on the prescribed form with passport size full face photograph, which along with the necessary certificates regarding attendance, practical work etc., and the prescribed fee should be sent to the Officer in-charge of examinations of the college on or before the date fixed for this purpose.
132. When a candidate's application is found in order and he/she eligible to appear at examination, the Officer In-charge of the examinations shall furnish him with Hall Ticket with Photograph, which enable the candidate to appear the examination and this Hall Ticket shall have to be produced by the candidate before he can be admitted to the premises where the examination is being held or to a part of the said premises as well as to the examination hall.
133. A candidate who fails to present himself / herself for the examination for any reason whatsoever, except in shortage of attendance and failure to secure the prescribed minimum in sessional work and / or tests wherever prescribed or he / she fails to pass the examination shall not be entitled to claim refund of the whole or part of the examination fee not for the reservation of the examination fee for a subsequent examination or examinations.
134. A candidate after he/she has been declared successful in the whole examination shall be given a certificate setting forth the year of examination, the subject in which he/she was examined and, the division in which he/she was placed.

TRANSITORY REGULATIONS

135. Whenever, syllabus/scheme of instruction is changed in a particular semester, two more examinations immediately following thereafter shall be conducted according to the old syllabus / regulations. Candidates not appearing at the examinations or failing in them shall take the examination subsequently according to the changed syllabus/regulations.
136. By any reason a candidate admitted into the course under old scheme of regulations is promoted /readmitted after the implementation of revised version shall join the corresponding semester in the revised scheme of instructions / regulations.

* Follow the specific Guidelines for Assignment / Seminar / Project work (dissertation report/ viva) for awarding marks or grades to the student at the end of course of study / semester.

General Guidelines of M.Pharm. Dissertation:

Medium: *The medium of instruction and examination shall be in English.*

Commencement of Dissertation:

As per the Almanac and the Dissertation Year (II Year) of the student must commence with the announcement of topic on display for two weeks immediately after the II-semester examination of the I year or commencement of the III semester.

Choice of Topic or Allotment of Topic:

The students are allowed to choose the topic of their interest among the displayed one and allotted only on the basis of their choice and in the event of more than one candidate compete for the same topic and is left to the discretion of the head of the institution in consultation with the supervisor. The topic will be allotted to pass or promoted candidates (thesis cannot be submitted unless he/she passes in the course work) and only are allowed to commence the work for dissertation with the approval of the supervisor and permission of the head of the institution under communication to the university. The topic cannot be allotted to the detained candidate.

Seminar on the Allotted Topic:

A student allotted with a particular topic must and should give a seminar on the scope of the work he intends for doing as a dissertation immediately after six weeks of allotment of the topic in consultation with the supervisor.

Communication of the Topic to University Authorities:

All communications must be addressed to the Dean, Faculty of Pharmacy, Osmania University are to be forwarded through proper channel. (*Proper Channel:* Supervisor, Head of the Institution, Chairman, BOS in Pharmacy and Head of the Department) The list of candidates with allotted topics and broad areas of subject specialization along with supervisor name and place of work are to be communicated by the Head of the Institution to the office of the Dean, Faculty of Pharmacy through Chairman/Chairperson, BoS in Pharmacy, Osmania University for his reference and future processing of dissertation evaluation.

Place of Work:

The dissertation work in the III & IV semester shall be done either at the college or at any other place recognized by the University Department must be communicated to the Dean, Faculty of Pharmacy, Osmania University through Chairman/Chairperson, BoS in Pharmacy.

Supervisor:

Recognized by the Faculty of Pharmacy as per the existing norms of the faculty.

He/She should be a Ph.D., holder in Pharmaceutical Sciences and other allied disciplines recognized for Ph.D. supervision in the Pharmaceutical Sciences.

OR

He/She should have a minimum five years of experience after Post Graduate Qualification in Pharmaceutical Sciences and must be a senior lecturer or above cadre with at least two years of P.G teaching and have two publication to his/her credit.

Co-supervisor:

A co-supervisor is allowed/permitted to guide the dissertation work only on the basis of exigency and interdisciplinary nature of the topic.

Change of Topic or Supervisor:

The change of topic or supervisor may be communicated within two weeks of any such change and allowed only on the recommendation of the Head of the Institution (from which the candidate is completing the course of study) and on the consent of the supervisor.

Participation/Organization of National/State level Seminars/Symposia/Conference:

Seminars/Symposia/Conferences are to be made as regular feature and at least one National/ State level Seminar/Symposia/Conference/Workshop to be organized once in two years for the institutions offering P.G. programs to provide an exposure on the emerging trends and organization skill development for the P.G. Students. The staff and students should be encouraged to participate in the Seminars/Symposia/Conferences during their course of study.

Dissertation Submission Rules:

Dissertation is a part of two years curriculum of P.G program and treated as four semester almanac and which consists of two semester course work of First year and two semester project work of Second year. On completion of Second year of Study and only after 180 teaching days of duration in the second year the final submission is allowed by the candidate with the consent of the supervisor and approval of the pre-submission Viva committee. The candidate has to complete the formalities of course work and prerequisites of successful presentation of seminar and pre-submission viva. The approval of pre-submission viva committee is a must, before final submission of the dissertation to the University for Evaluation by external examiner. The submission of dissertation will be made to the Controller of Examinations, Osmania University in the prescribed Pro-forma of Application meant for M.Pharm. dissertation of Osmania University through proper channel.

Pre-submission Viva:

The pre submission viva committee has to be constituted by the head of the institution (from which candidate is completing the course of study) with the approval of the Chairman, Board of Studies in Pharmacy and Dean, Faculty of Pharmacy, Osmania University. The Head of the Institution is authorized to constitute pre-submission viva-committee from the approved panel provided by the faculty in consultation with the supervisor under intimation to Chairman, BoS in Pharmacy. A panel of external examiners has to be submitted to the Chairman, BoS in Pharmacy after completion of pre-submission viva for final evaluation of dissertation by the external expert in consultation with the supervisor for onward processing of certification.

Composition of Viva Committees:

Pre-submission Viva Committee: (to be held at respective institution)

Chairperson BoS / Nominee of Chairperson, BoS	-	Chairman
External Expert (Approved Panel within the University)	-	Member
HOD/Internal Expert/ (Sr. Faculty Member)	-	Member
Supervisor / Guide	-	Convener

(Note: The remuneration for External Expert of approved panel has to be borne by the respective institutions at the rate of Rs: 250/- Per candidate and group of three or four may be conducted at a time)

Final Submission Time:

Only twice in a year is allowed to submit the dissertation for final evaluation. If the candidate unable to submit within six weeks of the pre-submission viva and is allowed to submit in the subsequent opportunity provided after six months of first pre-submission viva. A candidate has to complete all the formalities for the award of degree within minimum of two years and maximum of four years from his date of admission.

Certificates and Enclosures required for the Submission:

- a. **Prescribed application form with a Demand Draft drawn in favor of Controller of Examinations, Examination Branch, Osmania University towards the payment of fee for examining/evaluation of the dissertation.**
- b. **Three copies of Soft/Hard bound M.Pharm Dissertation with a digital version along with enclosed individual certificates by the supervisor and candidate about the originality of the work carried out for dissertation.**
- c. **A copy of the Admission Letter**
- d. **A copy of the provisional / degree certificate**
- e. **A copy of the Memorandum of Marks of Course Work (I & II Semesters)**
- f. **A copy of the permission letter for the change of title / supervisor, if any.**
- g. **A certificate from the Head of the Institution that the candidates completed all prerequisites of dissertation submission.**
- h. **A Course work completion certificate from the Head of the Institution**

Final Viva for Certification of Degree:

Final Viva will be conducted (to be held at the university department/institution identified by the university) after the receipt of External Evaluation / Adjudication Reports as per the existing norms in the Faculty of Pharmacy, Osmania University for P.G programs.

As per the existing norms of Faculty of Pharmacy the final viva is conducted for the candidate based on the reports of external evaluator of dissertation by a three members committee constituted by Chairman/Chairperson, BoS in Pharmacy

Final Viva Committee:

Chairman/Chairperson, BoS in Pharmacy/Nominee	Chairman
Subject Expert (Approved Panel outside the University)	Member
HOD	Member
Supervisor / Guide	Convener & Member

The Chairman/Chairperson, BoS in Pharmacy may choose subject expert from the approved panel of experts and the Dean, Faculty of Pharmacy, may approve the above committee.

The committee recommendation is to be communicated to the Controller of Examinations for the award of degree on successful completion of the viva by the candidate.

FORMAT

FOR PREPARATION OF M.Pharm DISSERTATION REPORT

ARRANGEMENT OF CONTENTS:

The sequence in which the dissertation report material should be arranged and bound as follows:

1. Cover Page
2. Inner Title Page
3. Declaration
4. Certificate
5. Table of Contents
6. Acknowledgement
7. Abstract
8. List of Tables
9. List of Figures
10. Abbreviations and Nomenclature (If any)
11. Chapters
 - i. Introduction
 - ii. Review of Literature
 - iii. Methodology
 - iv. Results and Discussion
 - v. Conclusion
12. References
13. Appendices (If any)
14. Publication (If any)

The tables and figures shall be introduced in the appropriate places.

TYPING INSTRUCTIONS:

1. The dissertation must be submitted in Two Copies (One for Department and 2nd for Library) duly signed by the Supervisor. Students should also submit the soft copy on CD in pdf format in the library.
2. The length of the report may be about 80 to 120 pages.
3. The dissertation report shall be computer typed (English- British, Font -Times Roman, Size- 12 point) and printed on A4 size paper.
4. The dissertation report shall be hard bound with cover page in sky blue color. The name of the students, degree, month and year of submission, name of the university including institute name shall be printed in black letters on the cover page [Refer sample sheet (outer cover page)]
5. The dissertation report shall be typed with 1.5 line spacing with a margin 3.5 cm on the left, 2.5 cm on the top, and 1.25 cm on the right and at bottom.
6. Every page in the project report must be numbered. The page numbering, starting from acknowledgements and till the beginning of the introductory chapter, should be printed in small Roman numbers, i.e, i, ii, iii, iv... The page number of the first page of each chapter should not be printed (but must be accounted for). All page numbers from the second page of each chapter should be printed using Arabic numerals, i.e. 2,3,4,5... All printed page numbers should be located at the bottom centre of the page.
7. In the dissertation report, the title page [Refer sample sheet (inner title page)] should be given first then the declaration by the candidate and certificate(s) by the supervisor(s) in sequence, followed by **Table of Contents** and then commence with Roman numbering for an **Acknowledgement** and an **Abstract** of the report (not exceeding one page) and so on.
8. **The Table of Contents** should list all headings and sub headings. The title page and certificate will not find a place among the items listed in the **Table of Contents**. One and a half spacing should be adopted for typing the matter under this head.
9. **The List of Tables** should use exactly the same captions as they appear above the tables in the text. One and a half spacing should be adopted for typing the matter under this head.
10. **The List of Figures** should use exactly the same captions as they appear below the figures in the text. One and a half spacing should be adopted for typing the matter under this head.
11. The list of symbols, abbreviation & nomenclature should be typed with one and a half line spacing. Standard symbols, abbreviation etc should be used.
12. Project report consists of following chapters.
 - a. Chapter 1- Introduction
 - b. Chapter 2- Literature Survey
 - c. Chapter 3- Methodology

(It will be divided into several chapters and each chapter may be further divided into several divisions and sub-divisions depending on type & volume of work.)

- d. Chapter 4- Result & Discussion
- e. Chapter 5- Conclusion & Future Scope

(The chapter No. of Chapter 4 & 5 may vary depending on no. of chapters covered in 'Present Work' chapter).

Each chapter should be given an appropriate title. Tables & figures in a chapter should be placed in the immediate vicinity of the reference where they are cited. Footnotes should be used sparingly. They should be typed single space and placed directly underneath in the very same page, which refers to the material they annotate. Conclusion must not exceed more than two pages. Future scope also must not exceed one page.

13. Appendices are provided to give supplementary information, which is included in the main text may serve as a distraction and cloud the central theme.
 - i) Appendices should be numbered using Arabic numerals, e.g. Appendix 1, 2, etc.
 - ii) Appendices, Tables and References appearing in appendices should be numbered and referred to at appropriate places just as in the case of chapters.
 - iii) Appendices shall carry the title of the work reported and the same title shall be made in the contents page also.
14. The listing of references should be typed 4 spaces below the heading "REFERENCES" in alphabetical order in single spacing left – justified. The reference material should be listed in the alphabetical order of the surname of the first author. The name of the author (s) should be immediately followed by the year and other details.

PAGE DIMENSIONS AND MARGIN

Paper size: 80 gsm. Standard A4 size (210 mm X 297 mm)

Margins

Top edge: 1 inch (25 mm)

Left side: 1 ½ inch (38 mm)

Bottom edge: 1 inch (25 mm)

Right side: 1 inch (25 mm)

Print out: LaserJet or Inkjet printer, **printed on only one side**

Font size (regular Text): Times New Roman of 12 pts

Spacing: 1.5 line spacing

Chapters: 14 pts bold Centre aligned (Capital Letters)

Sections: 12 pts bold left aligned (Capital Letters)

Subsections: 12 pts bold left aligned (Title case)

Sub-Sub Sections: 12 pts bold italic left aligned (Title case)

Page numbers (Chapters): Bottom – centered – 12 pts (1, 2, 3...)

Page numbers (Preliminaries): Bottom – centered – 12 pts / Roman numerals (i, ii, iii...)

Binding: Soft binding (edge with black color strip/comb binding)

Final Binding: Hard bound version (After Adjudication Report / Evaluation)

A typical illustrative list given below relates to the citation example quoted above.

REFERENCES:

The student is responsible for the accuracy of References.

All publications cited in the dissertation should be presented in a list of References following text to be restricted to a maximum of 200 and should follow the *Harvard* or *Oxford* – like format, where the citation of references in text should be given by author's last name (no initials) followed by the year, when two or more citations have to be presented, list them in chronological order of year. If there are two or more papers of same author (s) in the same year, differentiate them by "a", "b" etc., [Bowen et al. (2001a)] in text citation and within the reference list, the articles are presented alphabetically: 2001a, then 2001b, etc., when there are three authors or more names mention only first author followed by "et al" in the text part. All References cited in the text (including those cited in figures and tables) should be listed in References as per the alphabetical order.

Start the References on separate page and arrange citations in alphabetical order by the first author's last name and do not number the citations. List all the authors (do not use "et al" in the reference list). When there are two or more references to the same author(s), list them in the chronological order of year of publication.

The Journal References, the names of authors (last name and initials) should be followed by the year (in parenthesis), title of the article, journal name (in italics- use PubMed approved abbreviations), Volume number (in bold - followed by colon) and pages (first – last page numbers). Citing the Reference to electronic material should include author name(s), year, article title, and journal (in italics), where volume and/or page numbers are not available, substitute Digital Object Identifier (DOI) number.

No Publication Details Given

Occasionally, you will come across documents that lack basic publication details. In these cases, it is necessary to indicate to your reader that these are not available. A series of abbreviations can be used and are generally accepted for this purpose:

- Author/Corporate Author not given use (Anon.)
- No Date use (n.d.)
- No Place (sine loco) use (s.l.)
- No Publisher (sine nomine) use (s.n.)
- Not Known use (n.k.).

Note on Journal Articles

- a) The title of the paper is between single quotation marks and in lower case, with a comma following
- b) Journal name is *italicized*, not the article title
- c) There are a number of other ways you could set out the volume no., issue no. and page nos., depending on the University or journal you are writing for (for example, **32**(7), 346-353, or 32, (7):346-52). It is because this is the case that we have suggested that you use the vol., no., pp. layout consistently. If you do so, then you won't get confused and you won't inadvertently mix up the various layouts, and thus you won't lose marks
- d) p. indicates only one page and pp. indicates a range of pages.

Illustrative examples of entries in a bibliography or list of References are given below:

Journal:

Author surname, initials. (Year) 'Title of article', *Journal name*, Vol. Volume number, No. Issue number, pp. first and last page numbers.

Papers with Single Author,

Benson HA, (2009) 'Elastic Liposomes for Topical and Transdermal Drug Delivery', *Current Drug Delivery.*, 6 (3), pp.217–26.

Bruce Rittmann, E. (1996) How input biomass affects sludge age and process stability. *ASCE: Jour.Env.Engg*, **122**, 4-8.

Papers with Two Authors,

Bliss, PJ and Barnas. D (1986) Modeling Nitrification in Plant Scale Activated Sludge. *Water Science and Technology*, **18**,139-148.

Papers with More than Two Authors,

Capodaglio AG, Jones HV, Novotny V and Feng X (1991) Sludge bulking analysis and forecasting: application of system identification and artificial neural computing technologies. *Water Res.*, **25**, 1217–24.

Chapter in a Book:

Wenzel HJ, Schwartzkroin PA (2006) Morphologic Approaches to the Characterization of Epilepsy Models. InL Pitkanen A, Schwartzkroin PA, Moshe SL (eds) *Models of Seizure and Epilepsy*, Elsevier Academic Press, San Diego, pp. 629-652.

Alfonso R. Gennaro, (1995) '*The Science and Practice of Pharmacy*'. 19th Edition, Vol-2, Mack Publishing Company, Pennsylvania. Chapt-90 "Medicated Application" pp 1577-1598.

Book

Pechenik JA (1987) *A Short Guide to Writing about Biology*. Harper Collins Publishers, New York.

APHA, AWWA and WPCF Standard Methods for the Examination of Water and Wastewater, 17th Edition, Washington, D.C.: American Public Health Association, 1989.

Book in a Series:

Bhattacharjee M (1998) *Notes of Infinite Permutation Groups, Lecture Notes in Mathematics*, No. 1698, Springer, New York.

Encyclopedia Articles:

Varley DH (1972) Libraries. *Standard Encyclopedia of Southern Africa*, Vol.6, p.618-619

Bergmann, PG (1993). Relativity. *The New Encyclopedia Britannica*. Vol. 26, pp. 501-508.

Thesis/Dissertation:

Smithers RHN (1997), *The Mammals of Botswana*. DSc Thesis. University of Pretoria.

Government Publications:

Available data may vary for these, but where possible include the following:

Government Department/Institute. Subdivision of department/institute (if known). (Year) *Title of Document*. (Name of chairperson, if it is a committee). Place of publication: Publisher.

Department of Health and Social Services (1980) *Inequalities in Health: Report of a Research Working Group*. (Chairman: Sir Douglas Black). London: DHSS.

Conference Proceedings:

Conference papers are often unpublished Word-processed text, distributed at the conference. Thus it is necessary to include the name, place and date of the conference.

Author, Initial. (Year) 'Title of Conference Paper'. Paper presented at Name of Conference, Place of Conference, and Month of Conference.

Conference papers are often published in book form or as a special issue of a journal. In this case, treat the reference as you would a normal book or journal paper, but include the fact that it is the publication of conference proceedings, if this is mentioned in the publication information.

Author, Initial. (Year) 'Title of conference paper', in *Conference Proceedings Title*. Place of publication: Publisher, month, page nos.

Bourassa S (1999) 'Effects of Child Care on Young Children', *Proceedings of the third annual meeting of the International Society for Child Psychology*, International Society for Child Psychology, Atlanta, Georgia, pp. 44-6

Shin, K.G. and McKay, N.D. (1984) 'Open Loop Minimum Time Control of Mechanical Manipulations and its Applications', Proc. Amer. Contr. Conf., San Diego, CA, pp. 1231-1236.

Citations from Internet:

The following elements in sequence must be considered: Author (If Known), Date of Publication/Last Updated, Title of Article or Document in Website, Type of Medium (Online), Available from (Website), Access Date in Brackets.

Harris P (2005), Reaching the Top of the Mountain. [Online]. Oxford University Press: Oxford. Available: <http://www.netLibrary.com/openbook/093456/html> [Accessed 8 January 2008]

Smith, R., (2002), Conformal Lubricated Contact of Cylindrical Surfaces Involved in a Non-Steady Motion, Available: <http://www.cas.phys.unm.edu/rsmith/homepage.html> [Accessed on 12/08/2007].

Useful Tips for Referencing. [Online]. Available: <http://www.referencetips.org.za> [Accessed 27 June 2005]

Patents:

Author(s) of patent – Surname and Initials, Year of Issue, *Title of Patent – italicized*, Number of Patent including Country of Issue

Cookson AH (1985) *Particle Trap for Compressed Gas Insulated Transmission Systems*, US Patent 4554399

News Papers:

Journalist name, initial. (Year) 'Title of news item'. *Name of News Paper*. Date, Page Number.

Mintz, A. (2006) 'House Prices Continue to Rise'. *Financial Times*. 4 June, p. 28.

If it is a news article and does not attribute an author, the newspaper name is used in the text and instead of the author in the reference list.

The Guardian (2005) 'Lottery for breast cancer help'. *The Guardian*. 21 March, p. 10.

SAMPLE SHEET (OUTER COVER PAGE)

**PHARMACOLOGICAL INVESTIGATION OF ANTI-CANCER
PROPERTIES OF SELECTED CRUDE DRUGS**

(16pt., Single line spacing, Centre Aligned, Bold)

**THE DISSERTATION SUBMITTED TO OSMANIA UNIVERSITY
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE**

AWARD OF THE DEGREE OF

(14pt, Bold)

MASTER OF PHARMACY

(16pt, Bold)

IN

PHARMACEUTICAL CHEMISTRY

(14pt)

BY

Name of the Scholar

(14pt)



**DEPARTMENT OF PHARMACY
UNIVERSITY COLLEGE OF TECHNOLOGY
OSMANIA UNIVERSITY
HYDERABAD – 500 007 – TELANGANA – INDIA**

(14pt, Bold)

Month & Year of Submission

(12pt)

**PHARMACOLOGICAL INVESTIGATION OF ANTI-CANCER
PROPERTIES OF SELECTED CRUDE DRUGS**

(16pt., Single line spacing, Centre Aligned, Bold)

**THE DISSERTATION SUBMITTED TO OSMANIA UNIVERSITY
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE**

AWARD OF THE DEGREE OF

(14pt, Bold)

MASTER OF PHARMACY

(16pt, Bold)

IN

PHARMACEUTICAL CHEMISTRY

(14pt)

BY

Name of the Scholar

(14pt)

Under the Guidance of

NAME OF SUPERVISOR(S)

(14pt)

Designation

(12pt)



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Month & Year of Submission

(12pt)

DECLARATION

I _____, Student of **M.Pharmacy (Pharmaceutical Chemistry)**, bearing the H.T No. _____, Department of Pharmacy, University College of Technology, Osmania University, Hyderabad do hereby declare that the work embodied in this dissertation entitled “**Pharmacological Investigation of Anti-Cancer Properties of Selected Crude Drugs**”, is submitted to **Osmania University** for the partial fulfillment of the requirements for the award of degree of **Master of Pharmacy in Pharmaceutical Chemistry** under **Faculty of Pharmacy** is the original research work carried out by me under the guidance and supervision of **Name & Designation of Supervisor(s)**.

Further I hereby declare and inform that the contents presented in this thesis has not been submitted by me for the award of any other degree or diploma of this or any other University.

Signature of Student (S)

(Name)

(Letter Head)

CERTIFICATE

This is to certify that the dissertation entitled “**Pharmacological Investigation of Anti-Cancer Properties of Selected Crude Drugs**” is submitted to **Osmania University** for the partial fulfillment of requirements for the award of degree of **Mater of Pharmacy in Pharmaceutical Chemistry** under **Faculty of Pharmacy** embodies the results and studies of a bonafide research work of Mr. _____ under my supervision at (Work Place) _____ and the contents of the thesis do not form the basis for the award of any other degree or diploma to the candidate from this or any other university elsewhere.

Signature of Supervisor(s)

Date:

Name & Designation

(Letter Head)

CERTIFICATE

This is to certify that the dissertation entitled “**Pharmacological Investigation of Anti-Cancer Properties of Selected Crude Drugs**” is submitted to **Osmania University** for the partial fulfillment of requirements for the award of degree of **Mater of Pharmacy in Pharmaceutical Chemistry** under **Faculty of Pharmacy** embodies the results and studies of a bonafide research work of Mr.

_____ under my co-supervision at (Work Place)
_____ and the contents of the thesis do not form the basis for the award of any other degree or diploma to the candidate from this or any other university elsewhere.

Signature of HOD

Date:

Name

TABLE OF CONTENTS

Content Title	Page No.
<i>Acknowledgement</i>	<i>i</i>
<i>Abstract</i>	<i>ii</i>
<i>List of Tables</i>	<i>iii</i>
<i>List of Figures</i>	<i>iv</i>
<i>List of Abbreviations</i>	<i>v</i>
<i>List of Nomenclature</i>	<i>vi</i>
Chapter 1: INTRODUCTION	1
1.1 SECTION	2
1.2	8
1.2.1 Sub-Section	10
1.2.2	12
1.2.2.1 Sub-Sub Section	13
1.2.2.2	15
1.2.3	17
1.3 AIM AND OBJECTIVES	19
Chapter 2: LITERATURE REVIEW	20
GENERAL	22
PRESENT WORK	23
Chapter 3: METHODOLOGY, MATERIALS AND METHODS	24
Chapter 4: RESULTS AND DISCUSSION	38
Chapter 5: CONCLUSIONS AND FUTURE SCOPE	43
References	50
Appendices- 1, 2, 3 (If any)	
Publication (If any)	

The Table of Contents must include all Chapter Headings, the References, and Appendices. Entries are 1.5 lines spaced. The Headings of Major Sections of Chapters are to be typed **CAPITAL BOLD**, Sub-Sections **Small Bold** and Sub-Sub Sections **Small Italic Bold** are typed in all capital/small letters. Table of Contents headings must be identical to those in the Text. Page No.'s listed must be right justified and connected to the appropriate entry by a line of evenly spaced dot leaders (periods).

ACKNOWLEDGEMENT

Sample Sheet

This page is used to thank those persons who have been instrumental to the student in completing the degree requirements. Acknowledgement of grants and special funding received to support the research also may be made on this page.

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ABSTRACT

An abstract provided within the dissertation must be a succinct and informative condensation of one's individual work, not exceeding one page with 300 - 400 word . The Graphs, Charts, Tables or Illustrations should be excluded. It should contains in brief the statement of the problem, procedure or method, findings and conclusion.

These must be prepared carefully since they will not be edited in any way, unless the extra abstract exceeds 300 - 400 words in length.

Please follow these guidelines for preparing your abstract.

- Do not exceed 350 words.
- Type on one side of the paper only.
- One and half-spaced and Margins must be maintained.
- Avoid abbreviations and acronyms.

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List of Tables

Table No.	Name of the Table	Page No.
1.1	Formulation of medicated derma stick (CL-I)	52
1.2	Formulation of medicated derma stick (CL-II)	52
1.3	Formulation of medicated derma stick (CL-III)	53
1.4	Formulation of medicated derma stick (CL-IV)	53
2.1	Formulation of medicated derma stick (CL-V)	54
2.2	Formulation of medicated derma stick (CL-VI)	54
2.3	Formulation of medicated derma stick (CL-VII)	55
2.4	Formulation of medicated derma stick (CL-VIII)	55
2.5	Formulation of medicated derma stick (CL-IX)	56
Chapter. No. Serial No	Consolidated Formulation Table	56
	Standard graph of Clotrimazole in methanol at $\lambda_{\max} = 231 \text{ nm}$	72
	Standard graph of Clotrimazole in pH 7.4 phosphate buffer at $\lambda_{\max} = 230.5 \text{ nm}$	73
	Comparative data of weight, thickness and length of Clotrimazole derma sticks (CL-I to CL-III)	74
	Comparative data of weight, thickness and length of Clotrimazole derma sticks (CL-IV to CL-VI)	75
	Comparative data of weight, thickness and length of Clotrimazole derma sticks (CL-VII to CL-IX)	76
	<i>In vitro</i> drug release of Clotrimazole derma stick (CL-I)	77
	<i>In vitro</i> drug release of Clotrimazole derma stick (CL-II)	79

Note: All table numbers and captions are listed exactly as they appear in the text.

LIST OF FIGURES

Figure No.	Name of the Figure	Page No.
Chapter. No. Serial No.	Standard calibration curve of Clotrimazole in methanol at $\lambda_{\max} = 231 \text{ nm}$	72
2.1	Standard calibration curve of Clotrimazole in pH 7.4 phosphate buffer at $\lambda_{\max} = 230.5 \text{ nm}$	73
2.2	Histogram showing comparison of weight, thickness and length of medicated derma sticks	74
3.1	Histogram showing comparison of weight, thickness and length of medicated derma sticks	75
3.2	Histogram showing comparison of weight, thickness and length of medicated derma sticks	76
4.1	In vitro drug release profile of Clotrimazole derma sticks (CL-I) (Zero order)	78
4.2	In vitro drug release profile of Clotrimazole derma sticks (CL-I) (First order)	78
	In vitro drug release profile of Clotrimazole derma sticks (CL-I) (Higuchi's plot)	78
	In vitro drug release profile of Clotrimazole derma sticks (CL-II) (Zero order)	80
	In vitro drug release profile of Clotrimazole derma sticks (CL-II) (First order)	80
	In vitro drug release profile of Clotrimazole derma sticks (CL-II) (Higuchi's plot)	80
	In vitro drug release profile of Clotrimazole derma sticks (CL-III) (Zero order)	82
Note: All figure numbers and captions are listed exactly as they appear in the text.		

NOMENCLATURE

Sample Sheet

English Symbols

- A Pre-exponential constant
- C_p Specific Heat, J/kg-K
- c Reaction progress variable
- R_f Retention factor
- T Temperature

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ABBREVIATIONS

BP	British Pharmacopeia
FDA	Food and Drug Administration
cGMP	Current Good Manufacturing Practices
cGLP	Current Good Laboratory Practices
cGCP	Current Good Clinical Practices
ICH	International Conference on Harmonization
IP	Indian Pharmacopeia
NIH	National Institute of Health
USP	United States Pharmacopeia
USPHS	United States Public Health System

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ORGANISATION OF THE THESIS

The thesis shall be presented in a number of *chapters*, starting with introduction and ending with **Summary and Conclusions**. Each of the other chapters will have precise title reflecting the contents of the chapter. A chapter can be subdivided into *sections*, *sub-sections* and *sub-sub section* so as to present the content discretely and with due emphasis.

Each chapter shall begin on a fresh page

1. Chapter and Section format

The title of **Chapter 1** shall be **Introduction**. It shall justify and highlight the problem poser and define the topic and at the end of the chapter the aim, objective and scope of the work presented. It may also highlight the significant contributions from the investigation.

Use only Arabic Numerals. Chapter Numbering should be centered on the top of the page using large bold print.

Example:

CHAPTER 1

Sections

A chapter can be divided into **Sections, Sub-sections and Sub-sub-sections** so as to present different concepts separately. Sections and sub-sections can be numbered using decimal points, e.g., 2.2 for the second Section in Chapter 2 and 2.3.4 for the fourth Subsection in third Section of Chapter 2. Use only Arabic Numerals with decimals. Section numbering should be left justified using large bold print.

Example:

GENERAL

ADSORPTION

Sub Sections

Use only Arabic Numerals with two decimals. Sub section numbering should be left justified using large bold print.

Example:

Adsorption Isotherms

Langmuir Isotherms etc

2. Review of Literature

This shall normally be the **Chapter 2** and shall present a critical appraisal of the previous work published in the literature pertaining to the topic of the investigation. The extent and emphasis of the chapter shall depend on the nature of the investigation. At the end of the Chapter one should decide and depict on the proposed / present work.

For Example,

Several researchers attempted to develop mathematical models to simulate the activated sludge process. Some of these models simulate the organic removal mechanisms in wastewater treatment field, which were included in Jorgensen and Gromiec (1985), Henze (1986), Henze et al. (1987a), Tang et al. (1987), and Van Niekerk et al. (1988).

The oxygen transfer mechanism has an important place in the activated sludge process.

An estimation technique for the oxygen transfer capacity is investigated by Stenstrom et al. (1989).

3. Methodology

3.1.0 Materials:

3.2.0 Methods:

4. Results and Discussions

This shall form the penultimate chapter of the thesis and shall include a thorough evaluation of the investigation carried out and bring out the contributions from the study.

The discussion shall logically lead to inferences and conclusions as well as scope for possible further future work.

Table / Figure Format

As far as possible tables and figures should be presented in portrait style. Small size table and figures (less than half of writing area of a page) should be incorporated within the text, while larger ones may be presented in separate pages. Table and figures shall be numbered chapter –wise.

For example, the fourth figure in Chapter 5 will bear the number **Figure 5.4** or *Fig.5.4*

Table number and title will be placed above the table while the figure number and caption will be located below the figure. Reference for Table and Figures reproduced from elsewhere shall be cited in the last and separate line in the table and figure caption, e.g. (after McGregor [12]).

Equations

All the equations should be typed in equation editor and should be properly numbered

For Example, $\Delta X \propto X \Delta t$ (2.1)

5. Summary and Conclusions

This will be the final chapter of the thesis. A brief report of the work carried out shall form the first part of the Chapter. Conclusions derived from the logical analysis presented in the Results and Discussions Chapter shall be presented and clearly enumerated, each point stated separately. Scope for future work should be stated lucidly in the last part of the Chapter.

Please note: The Above is only a sample

Binding

The dissertation shall be soft cover bound in leather or rexin with the black edge soft binding

Front Covers

The front cover shall contain the following details:

- Full title of thesis in 20 point's size font properly centered and positioned at the top.
- Full name of the candidate in 14 point's size font properly centered at the middle of the page.
- A 1.25 inch X 1.25 inch size of the Institute emblem followed by the name of the Department, name of the Institute and the year of submission, each in a separate line and properly centered and located at the bottom of the page.

GUIDE LINES FOR ASSIGNMENT, SEMINAR AND PROJECT

The assignment, seminar and project work should be given due importance in curricula so as to contribute significantly in developing the careers of students. These enable the student to acquire knowledge, skills and competency required to holistic understanding of the field of discipline from which they have to be graduated.

ASSIGNMENT:

Normally assignment provides an opportunity for students to get acquainted with the innovative topics and emerging areas of interest in the field of their discipline of study.

The assignment should mainly focus on the following:

Clarity of Fundamental Concepts (Knowledge of Principles and Ideas)

Collection of Information (Relevant Significance for Now and Future)

Organization (Sequencing of Information)

Conciseness (Effectiveness in Easy to Follow)

Presenting facts (Illustration of Content in Context to Facilitate Learning)

Understanding of Principles

Interpretations (Draw Conclusions through Critical Thinking);

The theory-oriented assignments must be a minimum of 2000 words and a maximum of 5000 words depending upon the chosen topic and also not exceeding 20 pages.

Main Elements of Evaluation of Theory Assignment:

1. Title	2
2. Author's Name and Address	2
3. Table of Contents	2
4. Nomenclature	2
5. Abstract or Summary	10
6. Introduction and Aim	2
7. Review of Earlier Work	5
8. Present Method	5
9. Comment of Present Method	2
10. Proposed Method	5
11. Description of Experimental or Theoretical Work	5
12. Discussion of Experimental or Theoretical Work	5
13. Conclusions	10
14. Recommendations	5
15. Suggested Future Program	5
16. Bibliography	5
17. Appendices	3
18. Tables and Illustrations (Graphs, Images etc.,)	5
19. Other*	20
20. Total	100

* This includes interaction with faculty, meeting deadlines (regularity & punctuality), neatness and finished features of the submitting material in appropriate electronic form or written form.



Estd. 1997

PCI Rules & Regulations for the Doctor of Pharmacy (Pharm.D) Course



भारत का राजपत्र The Gazette of India

साप्ताहिक/WEEKLY

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० 19] नई दिल्ली, शनिवार, मई 10—मई 16, 2008 (वैशाख 20, 1930)
No. 19] NEW DELHI, SATURDAY, MAY 10—MAY 16, 2008 (VAISAKHA 20, 1930)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 4

[PART III—SECTION 4]

[सांविधिक निकायों द्वारा जारी की गई विविध अधिसूचनाएं जिसमें कि आदेश, विज्ञापन और सूचनाएं सम्मिलित हैं]
[Miscellaneous Notifications including Notifications, Orders, Advertisements and Notices issued by
Statutory Bodies]

भारतीय रिज़र्व बैंक

मुंबई-400001, दिनांक 9 अप्रैल 2008

संदर्भ : बैंपविवि. सं. आईबीडी.-14241/23.13.048/2007-08--भारतीय रिज़र्व बैंक अधिनियम, 1934 (1934 का 2) की धारा 42 की उप-धारा (6) के खण्ड (ग) के अनुसरण में भारतीय रिज़र्व बैंक इसके द्वारा निदेश देता है कि उक्त अधिनियम की दूसरी अनुसूची में निम्नलिखित परिवर्तन किये जाएं :--

“अरब बांगलादेश बैंक लिमिटेड” शब्दों के स्थान पर “एबी बैंक लिमिटेड” शब्द होंगे।

आनन्द सिन्हा
कार्यपालक निदेशक

[PUBLISHED IN THE GAZETTE OF INDIA, No.19, PART III, SECTION 4]

Ministry of Health and Family Welfare
(Pharmacy Council of India)

New Delhi, 10th May, 2008.

Pharm.D. Regulations 2008

Regulations framed under section 10 of the Pharmacy Act, 1948 (8 of 1948).

(As approved by the Government of India, Ministry of Health vide, letter No.V.13013/1/2007-PMS, dated the 13th March, 2008 and notified by the Pharmacy Council of India).

No.14-126/2007-PCI.— In exercise of the powers conferred by section 10 of the Pharmacy Act, 1948 (8 of 1948), the Pharmacy Council of India, with the approval of the Central Government, hereby makes the following regulations, namely:-

CHAPTER-I

1. Short title and commencement. – (1) These regulations may be called the Pharm.D. Regulations 2008.
(2) They shall come into force from the date of their publication in the official Gazette.
2. Pharm.D. shall consist of a certificate, having passed the course of study and examination as prescribed in these regulations, for the purpose of registration as a pharmacist to practice the profession under the Pharmacy Act, 1948.



CHAPTER-II

3. Duration of the course. –

- a) Pharm.D: The duration of the course shall be six academic years (five years of study and one year of internship or residency) full time with each academic year spread over a period of not less than two hundred working days. The period of six years duration is divided into two phases –

Phase I – consisting of First, Second, Third, Fourth and Fifth academic year.

Phase II – consisting of internship or residency training during sixth year involving posting in speciality units. It is a phase of training wherein a student is exposed to actual pharmacy practice or clinical pharmacy services and acquires skill under supervision so that he or she may become capable of functioning independently.

- b) Pharm.D. (Post Baccalaureate): The duration of the course shall be for three academic years (two years of study and one year internship or residency) full time with each academic year spread over a period of not less than two hundred working days. The period of three years duration is divided into two phases –

Phase I – consisting of First and Second academic year.

Phase II – consisting of Internship or residency training during third year involving posting in speciality units. It is a phase of training wherein a student is exposed to actual pharmacy practice or clinical pharmacy services, and acquires skill under supervision so that he or she may become capable of functioning independently.

4. Minimum qualification for admission to. –

- a) Pharm.D. Part-I Course – A pass in any of the following examinations -

(1) 10+2 examination with Physics and Chemistry as compulsory subjects along with one of the following subjects:

Mathematics or Biology.

(2) A pass in D.Pharm course from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act.

(3) Any other qualification approved by the Pharmacy Council of India as equivalent to any of the above examinations.

Provided that a student should complete the age of 17 years on or before 31st December of the year of admission to the course.

Provided that there shall be reservation of seats for the students belonging to the Scheduled Castes, Scheduled Tribes and other Backward Classes in accordance with the instructions issued by the Central Government/State Government/Union Territory Administration as the case may be from time to time.



b) Pharm.D. (Post Baccalaureate) Course -

A pass in B.Pharm from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act:

Provided that there shall be reservation of seats for the students belonging to the Scheduled Castes, Scheduled Tribes and other Backward Classes in accordance with the instructions issued by the Central Government/State Government/Union Territory Administration as the case may be from time to time.

5. Number of admissions in the above said programmes shall be as prescribed by the Pharmacy Council of India from time to time and presently be restricted as below –
 - i) Pharm.D. Programme – 30 students.
 - ii) Pharm.D. (Post Baccalaureate) Programme – 10 students.
6. Institutions running B.Pharm programme approved under section 12 of the Pharmacy Act, will only be permitted to run Pharm.D. programme. Pharm.D. (Post Baccalaureate) programme will be permitted only in those institutions which are permitted to run Pharm.D. programme.
7. Course of study. – The course of study for Pharm.D. shall include the subjects as given in the Tables below. The number of hours in a week, devoted to each subject for its teaching in theory, practical and tutorial shall not be less than that noted against it in columns (3), (4) and (5) below.

T A B L E S

First Year :

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
1.1	Human Anatomy and Physiology	3	3	1
1.2	Pharmaceutics	2	3	1
1.3	Medicinal Biochemistry	3	3	1
1.4	Pharmaceutical Organic Chemistry	3	3	1
1.5	Pharmaceutical Inorganic Chemistry	2	3	1
1.6	Remedial Mathematics/ Biology	3	3*	1
	Total hours	16	18	6 = (40)

* For Biology



Second Year:

S.No	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
2.1	Pathophysiology	3	-	1
2.2	Pharmaceutical Microbiology	3	3	1
2.3	Pharmacognosy & Phytopharmaceuticals	3	3	1
2.4	Pharmacology-I	3	-	1
2.5	Community Pharmacy	2	-	1
2.6	Pharmacotherapeutics-I	3	3	1
	Total Hours	17	9	6 = 32

Third Year:

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
3.1	Pharmacology-II	3	3	1
3.2	Pharmaceutical Analysis	3	3	1
3.3	Pharmacotherapeutics-II	3	3	1
3.4	Pharmaceutical Jurisprudence	2	-	-
3.5	Medicinal Chemistry	3	3	1
3.6	Pharmaceutical Formulations	2	3	1
	Total hours	16	15	5 = 36



Fourth Year:

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Practical/Hospital Posting	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
4.1	Pharmacotherapeutics-III	3	3	1
4.2	Hospital Pharmacy	2	3	1
4.3	Clinical Pharmacy	3	3	1
4.4	Biostatistics & Research Methodology	2	-	1
4.5	Biopharmaceutics & Pharmacokinetics	3	3	1
4.6	Clinical Toxicology	2	-	1
	Total hours	15	12	6 = 33

Fifth Year:

S.No.	Name of Subject	No. of hours of Theory	No. of hours of Hospital posting*	No. of hours of Seminar
(1)	(2)	(3)	(4)	(5)
5.1	Clinical Research	3	-	1
5.2	Pharmacoepidemiology and Pharmacoconomics	3	-	1
5.3	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	2	-	1
5.4	Clerkship *	-	-	1
5.5	Project work (Six Months)	-	20	-
	Total hours	8	20	4 = 32

* Attending ward rounds on daily basis.



Sixth Year:

Internship or residency training including postings in speciality units. Student should independently provide the clinical pharmacy services to the allotted wards.

- (i) Six months in General Medicine department, and
- (ii) Two months each in three other speciality departments

8. Syllabus. – The syllabus for each subject of study in the said Tables shall be as specified in Appendix -A to these regulations.
9. Approval of the authority conducting the course of study. – (1) No person, institution, society or university shall start and conduct Pharm.D or Pharm.D. (Post Baccalaureate) programme without the prior approval of the Pharmacy Council of India.
- (2) Any person or pharmacy college for the purpose of obtaining permission under sub-section (1) of section 12 of the Pharmacy Act, shall submit a scheme as prescribed by the Pharmacy Council of India.
- (3) The scheme referred to in sub-regulation (2) above, shall be in such form and contain such particulars and be preferred in such manner and be accompanied with such fee as may be prescribed:
- Provided that the Pharmacy Council of India shall not approve any institution under these regulations unless it provides adequate arrangements for teaching in regard to building, accommodation, labs., equipments, teaching staff, non-teaching staff, etc., as specified in Appendix-B to these regulations.
10. Examination. – (1) Every year there shall be an examination to examine the students.
- (2) Each examination may be held twice every year. The first examination in a year shall be the annual examination and the second examination shall be supplementary examination.
- (3) The examinations shall be of written and practical (including oral nature) carrying maximum marks for each part of a subject as indicated in Tables below :

T A B L E S**First Year examination :**

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
1.1	Human Anatomy and Physiology	70	30	100	70	30	100
1.2	Pharmaceutics	70	30	100	70	30	100
1.3	Medicinal Biochemistry	70	30	100	70	30	100
1.4	Pharmaceutical Organic Chemistry	70	30	100	70	30	100
1.5	Pharmaceutical Inorganic Chemistry	70	30	100	70	30	100
1.6	Remedial Mathematics/ Biology	70	30	100	70*	30*	100*
				600			600 = 1200

* for Biology.



Second Year examination :

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
2.1	Pathophysiology	70	30	100	-	-	-
2.2	Pharmaceutical Microbiology	70	30	100	70	30	100
2.3	Pharmacognosy & Phytopharmaceuticals	70	30	100	70	30	100
2.4	Pharmacology-I	70	30	100	-	-	-
2.5	Community Pharmacy	70	30	100	-	-	-
2.6	Pharmacotherapeutics-I	70	30	100	70	30	100
				600			300 = 900

Third Year examination :

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
3.1	Pharmacology-II	70	30	100	70	30	100
3.2	Pharmaceutical Analysis	70	30	100	70	30	100
3.3	Pharmacotherapeutics-II	70	30	100	70	30	100
3.4	Pharmaceutical Jurisprudence	70	30	100	-	-	-
3.5	Medicinal Chemistry	70	30	100	70	30	100
3.6	Pharmaceutical Formulations	70	30	100	70	30	100
				600			500 = 1100

Fourth Year examination :

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
4.1	Pharmacotherapeutics-III	70	30	100	70	30	100
4.2	Hospital Pharmacy	70	30	100	70	30	100
4.3	Clinical Pharmacy	70	30	100	70	30	100
4.4	Biostatistics & Research Methodology	70	30	100	-	-	-
4.5	Biopharmaceutics & Pharmacokinetics	70	30	100	70	30	100
4.6	Clinical Toxicology	70	30	100	-	-	-
				600			400 = 1000



Fifth Year examination :

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
5.1	Clinical Research	70	30	100	-	-	-
5.2	Pharmacoepidemiology and Pharmacoeconomics	70	30	100	-	-	-
5.3	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	70	30	100	-	-	-
5.4	Clerkship *	-	-	-	70	30	100
5.5	Project work (Six Months)	-	-	-	100**	-	100
				300			200 = 500

* Attending ward rounds on daily basis.

** 30 marks – viva-voce (oral)

70 marks – Thesis work

11. Eligibility for appearing Examination.— Only such students who produce certificate from the Head of the Institution in which he or she has undergone the Pharm.D. or as the case may be, the Pharm.D. (Post Baccalaureate) course, in proof of his or her having regularly and satisfactorily undergone the course of study by attending not less than 80% of the classes held both in theory and in practical separately in each subject shall be eligible for appearing at examination.

12. Mode of examinations.— (1) Theory examination shall be of three hours and practical examination shall be of four hours duration.

(2) A Student who fails in theory or practical examination of a subject shall re-appear both in theory and practical of the same subject.

(3) Practical examination shall also consist of a viva –voce (Oral) examination.

(4) Clerkship examination – Oral examination shall be conducted after the completion of clerkship of students. An external and an internal examiner will evaluate the student. Students may be asked to present the allotted medical cases followed by discussion. Students' capabilities in delivering clinical pharmacy services, pharmaceutical care planning and knowledge of therapeutics shall be assessed.

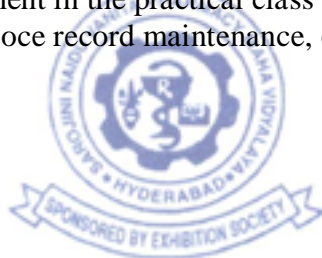
13. Award of sessional marks and maintenance of records.— (1) A regular record of both theory and practical class work and examinations conducted in an institution imparting training for Pharm.D. or as the case may be, Pharm.D. (Post Baccalaureate) course, shall be maintained for each student in the institution and 30 marks for each theory and 30 marks for each practical subject shall be allotted as sessional.

(2) There shall be at least two periodic sessional examinations during each academic year and the highest aggregate of any two performances shall form the basis of calculating sessional marks.

(3) The sessional marks in practicals shall be allotted on the following basis:-

(i) Actual performance in the sessional examination (20 marks);

(ii) Day to day assessment in the practical class work, promptness, viva-voce record maintenance, etc. (10 marks).



14. Minimum marks for passing examination.— A student shall not be declared to have passed examination unless he or she secures at least 50% marks in each of the subjects separately in the theory examinations, including sessional marks and at least 50% marks in each of the practical examinations including sessional marks. The students securing 60% marks or above in aggregate in all subjects in a single attempt at the Pharm.D. or as the case may be, Pharm. D. (Post Baccalaureate) course examination shall be declared to have passed in first class. Students securing 75% marks or above in any subject or subjects shall be declared to have passed with distinction in the subject or those subjects provided he or she passes in all the subjects in a single attempt.
15. Eligibility for promotion to next year.— All students who have appeared for all the subjects and passed the first year annual examination are eligible for promotion to the second year and, so on. However, failure in more than two subjects shall debar him or her from promotion to the next year classes.
16. Internship.— (1) Internship is a phase of training wherein a student is expected to conduct actual practice of pharmacy and health care and acquires skills under the supervision so that he or she may become capable of functioning independently.
- (2) Every student has to undergo one year internship as per Appendix-C to these regulations.
17. Approval of examinations.— Examinations mentioned in regulations 10 to 12 and 14 shall be held by the examining authority hereinafter referred to as the university, which shall be approved by the Pharmacy Council of India under sub-section (2) of section 12 of the Pharmacy Act, 1948. Such approval shall be granted only if the examining authority concerned fulfills the conditions as specified in Appendix-D to these regulations.
18. Certificate of passing examination.— Every student who has passed the examinations for the Pharm.D. (Doctor of Pharmacy) or Pharm.D. (Post Baccalaureate) (Doctor of Pharmacy) as the case may be, shall be granted a certificate by the examining authority.



CHAPTER-III Practical training

19. Hospital posting.— Every student shall be posted in constituent hospital for a period of not less than fifty hours to be covered in not less than 200 working days in each of second, third & fourth year course. Each student shall submit report duly certified by the preceptor and duly attested by the Head of the Department or Institution as prescribed. In the fifth year, every student shall spend half a day in the morning hours attending ward rounds on daily basis as a part of clerkship. Theory teaching may be scheduled in the afternoon.
20. Project work.— (1) To allow the student to develop data collection and reporting skills in the area of community, hospital and clinical pharmacy, a project work shall be carried out under the supervision of a teacher. The project topic must be approved by the Head of the Department or Head of the Institution. The same shall be announced to students within one month of commencement of the fifth year classes. Project work shall be presented in a written report and as a seminar at the end of the year. External and the internal examiners shall do the assessment of the project work.
- (2) Project work shall comprise of objectives of the work, methodology, results, discussions and conclusions.
21. Objectives of project work.— The main objectives of the project work is to—
- (i) show the evidence of having made accurate description of published work of others and of having recorded the findings in an impartial manner; and
 - (ii) develop the students in data collection, analysis and reporting and interpretation skills.
22. Methodology.— To complete the project work following methodology shall be adopted, namely:—
- (i) students shall work in groups of not less than *two* and not more than *four* under an authorised teacher;
 - (ii) project topic shall be approved by the Head of the Department or Head of the Institution;
 - (iii) project work chosen shall be related to the pharmacy practice in community, hospital and clinical setup. It shall be patient and treatment (Medicine) oriented, like drug utilisation reviews, pharmacoepidemiology, pharmacovigilance or pharmacoconomics;
 - (iv) project work shall be approved by the institutional ethics committee;
 - (v) student shall present at least three seminars, one in the beginning, one at middle and one at the end of the project work; and
 - (vi) two-page write-up of the project indicating title, objectives, methodology anticipated benefits and references shall be submitted to the Head of the Department or Head of the Institution.



23. Reporting .— (1) Student working on the project shall submit jointly to the Head of the Department or Head of the Institution a project report of about 40-50 pages. Project report should include a certificate issued by the authorised teacher, Head of the Department as well as by the Head of the Institution
- (2) Project report shall be computer typed in double space using Times Roman font on A4 paper. The title shall be in bold with font size 18, sub-titles in bold with font size 14 and the text with font size 12. The cover page of the project report shall contain details about the name of the student and the name of the authorised teacher with font size 14.
- (3) Submission of the project report shall be done at least one month prior to the commencement of annual or supplementary examination.
24. Evaluation.— The following methodology shall be adopted for evaluating the project work—
- (i) Project work shall be evaluated by internal and external examiners.
- (ii) Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of four students).
- (iii) Three seminars presented by students shall be evaluated for twenty marks each and the average of best two shall be forwarded to the university with marks of other subjects.
- (iv) Evaluation shall be done on the following items: **Marks**
- | | |
|-------------------------------|------------|
| a) Write up of the seminar | (7.5) |
| b) Presentation of work | (7.5) |
| c) Communication skills | (7.5) |
| d) Question and answer skills | (7.5) |
| Total | (30 marks) |
- (v) Final evaluation of project work shall be done on the following items: **Marks**
- | | |
|-------------------------------|------------|
| a) Write up of the seminar | (17.5) |
| b) Presentation of work | (17.5) |
| c) Communication skills | (17.5) |
| d) Question and answer skills | (17.5) |
| Total | (70 marks) |

Explanation.— For the purposes of differentiation in the evaluation in case of topic being the same for the group of students, the same shall be done based on item numbers b, c and d mentioned above.

