

**MAHARSHI DAYANAND UNIVERSITY, ROHTAK**

**Copy of Resolution No. 14 of the Executive Council's meeting held on 13.09.2017**

**14. Ordinances for B.Pharmacy and M.Pharmacy Courses under CBCS**

To note the action taken by the Vice-Chancellor, in anticipation of the approval of the Academic Council/Executive Council, in approving the Ordinances for B.Pharmacy and M.Pharmacy courses based on CBCS to be made applicable w.e.f. Session 2017-18. These Ordinances have been recommended by the Faculty of Pharmaceutical Sciences under Resolution No. 1 of its meeting held on 04.02.2017 (**Annexure A/14 pages 116-141, already circulated**).

(The above action taken by the Vice-Chancellor has already been approved by the Academic Council vide Reso. No. 24 of 05.08.2017).

**RESOLVED THAT THE ACTION TAKEN BY THE VICE-CHANCELLOR AS ABOVE BE APPROVED.**

**[ACTION BY A.R.(ACAD.)]**

**Academic Branch**

**Endst. No. AC-VI/17/** 23034-23097

**Dated:** 19/9/17

A copy of the above is forwarded to the following for information and necessary action.

1. All the Deans of the faculties, M.D.University, Rohtak.
2. All the Directors/Heads of the faculties, M.D.University, Rohtak
3. The Controller of Examinations, M.D.University, Rohtak.
4. The Director (UCC), M.D.University, Rohtak with the request to upload the Ordinances on the University website under home<Academic<Ordinances. This notification may also be uploaded separately.
5. All the Deputy Registrars/Assistant Registrar/Incharge(R-I/II/III/IV/Secracy/Conduct/Re-Evaluation/Colleges/R&S), M.D.University, Rohtak.
6. P.A. to Vice-Chancellor/Dean Academic Affairs/Registrar, M.D.University, Rohtak for kind information of the later.
7. Superintendent (Academic-I), M.D. University, Rohtak.

  
Superintendent (Academic)

DEPARTMENT OF PHARMACEUTICAL SCIENCES,  
MAHARSHI DAYANAND UNIVERSITY, ROHTAK

MINUTES OF THE MEETING OF FACULTY PHARMACEUTICAL SCIENCES

A meeting of the Faculty of Pharmaceutical Sciences was convened on 04-02-2017 (Saturday) at 12.00 p.m. in the office of the Head, Department of Pharmaceutical Sciences. Following members were present:

1	Prof. Arun Nanda	Member
2	Prof. Narasimhan B	Chairman
3	Prof. Munish Garg	HOD
4	Dr. Sanju Nanda	Member
5	Dr. Mahesh Kumar	Member
6	Prof. D.P. Pathak	Outside expert

The Chairman welcomed all the members and presented the agenda for discussion. The recommendations / resolutions of the Faculty of Pharmaceutical Sciences are as follows:

1. To consider the syllabus and scheme of examination as per PCI regulations w.e.f. academic session 2017-18

The Faculty of Pharmaceutical Sciences perused and deliberated over the minutes of BOS held on 04-02-17 (Annexure A) and approved the new ordinance and syllabus as per PCI norms approved by BOS w.e.f. academic session 2017-18 for the following courses

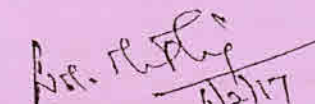
1. Bachelor of Pharmacy
2. Master of Pharmacy (Industrial Pharmacy)
3. Master of Pharmacy (Drug Regulatory Affairs)
4. Master of Pharmacy (Pharmaceutical Chemistry)
5. Master of Pharmacy (Pharmacognosy)
6. Master of Pharmacy (Pharmacology)

The Faculty of Pharmaceutical Sciences forwarded the new ordinance and syllabus as per PCI norms as approved by BOS for further consideration and approval by Academic Council.

- Any other item with the permission of chair - Nil

The meeting ended with a vote of thanks to the Chair

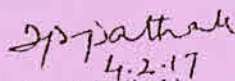
  
(Arun Nanda)

  
(Narasimhan B)

  
(Munish Garg)

  
(Sanju Nanda)

  
(Mahesh Kumar)

  
(D. P. Pathak)



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Reference on pre-page.

Endst. No. ACS-III/F-26/2017/ 11225

Dated: 3-5-17

Copy of the pre-page alongwith copy of ordinances i.e.B.Pharmacy and M.Pharm Courses from the session 2017-18 is forwarded to the Superintendent-I(Academic), M.D. University, Rohtak alongwith ordinance for information and necessary action.

M. B. Batra  
Superintendent (Academic)  
For-Registrar

AC-6 CB  
3/5/17

The Supdt. (Acad) - II may kindly be requested to direct the concerned official to provide soft copy of the ordinances so that n/a may be taken accordingly please.

Supdt. (Acad)

SI  
4/5/2017

Pl. arrange to supply as requested above,

SCA Acad II

Pl. request the HOD  
if the same has not been  
sent through E-mail

CBH  
4/5/17

Acad III

SR  
4/5

It is available on Academic Br. E-mail  
which may be downloaded, Pl

Supdt. Acad

SAE/I

AC-6

CB  
4/5/17

M. B. Batra  
4/5/17

## **ORDINANCE B. PHARMACY w.e.f Session 2017-18**

### **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 2017-18. 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 42 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. However, relaxation in attendance for appearing in examination will be given as per University Rules.

### **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 successful 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.

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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

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BP105T	Communication skills – Theory *	2	-	2
BP106RBT	Remedial Biology/	2	-	2
BP106RMT	Remedial Mathematics – Theory*			
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
	<b>Total</b>	<b>34<sup>S</sup>/36<sup>#</sup></b>	<b>4</b>	<b>29<sup>S</sup>/30<sup>#</sup></b>

#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
	<b>Total</b>	<b>32</b>	<b>4</b>	<b>29</b>

\*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
BP308P	Pharmaceutical Engineering – Practical	4	-	2

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Total	28	4	24
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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 Pharmacy I – 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 Pharmacy I – 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

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BP608P	Pharmacology III – Practical	4	-	2
BP609P	Herbal Drug Technology – Practical	4	-	2
<b>Total</b>		<b>30</b>	<b>6</b>	<b>30</b>

**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
<b>Total</b>		<b>28</b>	<b>5</b>	<b>24</b>

**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			

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BP811ET	Advanced Instrumentation Techniques			
BP812ET	Dietary Supplements and Nutraceuticals			
BP813PW	Project Work	12	-	6
<b>Total</b>		<b>24</b>	<b>4</b>	<b>22</b>

**Table-IX: Semester wise credits distribution**

Semester	Credit Points
I	29 <sup>§</sup> /30 <sup>#</sup>
II	29
III	24
IV	28
V	26
VI	30
VII	24
VIII	22
Extracurricular/ Co curricular activities	01*
<b>Total credit points for the program</b>	<b>213<sup>§</sup>/214<sup>#</sup></b>

\* 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 Department in consultation with all Senior Most faculty in the concerned department.

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

Head of the Department shall be the Chairperson; TWO Teacher from each specialization by seniority and rotation and four student representatives (two from each academic year), nominated by the Head of the Department.

3. Duties of the Program Committee:

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- 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 Department on academic matters.
- v. The Program Committee shall meet at least twice/thrice in a semester preferably at the end of each Sessional exam (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 course through 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 Department level and the marks/grades shall be submitted to the university.

##### 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
<b>Total</b>	<b>10</b>	<b>5</b>
Practical		
Attendance (Refer Table – XII)	2	
Based on Practical Records, Regular viva voce, etc.	3	
<b>Total</b>	<b>5</b>	

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

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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 best 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) / Fill ups / Short answer Questions

(Answer all the questions) =  $10 \times 1 = 10$

II. Long Answers (Answer 1 out of 2) =  $1 \times 10 = 10$

III. Short Answers (Answer 2 out of 3) =  $2 \times 5 = 10$

Total = 30 marks

For subjects having Non University Examination

I. Long Answers (Answer 1 out of 2) =  $1 \times 10 = 10$

II. Short Answers (Answer 4 out of 6) =  $4 \times 5 = 20$

Total = 30 marks

Question paper pattern for practical sessional examinations =

I. Synopsis = 10

II. Experiments = 25

III. Viva voce = 05



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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 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, if his/her internal assessment is less than 40%. 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 examination 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)

(Answer all the questions) =

$$20 \times 1 = 20$$

II. Long Answers (Answer 2 out of 3) =

$$2 \times 10 = 20$$

III. Short Answers (Answer 7 out of 9) =

$$7 \times 5 = 35$$

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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.

/o

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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
Fewer than 50	F	0	Fail
Absent	AB	0	Fail



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A learner who remains absent for any end-semester examination shall be assigned a letter grade of ABand 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:

$$\text{SGPA} = \frac{C1G1 + C2G2 + C3G3 + C4G4 + C5G5}{C1 + C2 + C3 + C4 + C5}$$

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 ABS grade awarded in that semester. For example if a learner has a F or ABS grade in course 4, the SGPA shall then be computed as:

$$\text{SGPA} = \frac{C1G1 + C2G2 + C3G3 + C4 * \text{ZERO} + C5G5}{C1 + C2 + C3 + C4 + C5}$$

### 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:

$$\text{CGPA} = \frac{C1S1 + C2S2 + C3S3 + C4S4 + C5S5 + C6S6 + C7S7 + C8S8}{C1 + C2 + C3 + C4 + C5 + C6 + C7 + C8}$$

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
<b>Total</b>	<b>75 Marks</b>

### *Evaluation of Presentation:*

Presentation of work	25 Marks
Communication skills	20 Marks
Question and answer skills	30 Marks
<b>Total</b>	<b>75 Marks</b>

*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

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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.

**28. Revaluation/ Re-totaling of answer papers**

There is provision for revaluation of the answer papers in theory examination as per University Rules.

**29. Improvement**

There is no provision of improvement in final/end semester examination.

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## **ORDINANCE- M. PHARM COURSES w.e.f. session 2017-18**

### **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). They shall come into effect from the academic year 2017-18. 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 or should obtain the same before the commencement of the first semester examination, 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 the University.

### **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. However, relaxation in attendance for appearing in examination will be as per University Rules.

### **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 Course 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

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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 2-9. 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.

### Course of the 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	Industrial Pharmacy	MIP
2	Pharmaceutical Chemistry	MPC
3	Pharmacognosy	MPG
4	Pharmacology	MPL
5	Drug Regulatory Affairs	DRA

The course of study for M.Pharm specializations shall include Semester wise Theory & Practical as given in Table – 2 to 6. 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 6.

**Table-2 Course of study for M. Pharm. (Industrial Pharmacy)**

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
<b>Semester I</b>					
MPA101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MIP101T	Pharmaceutical Formulation Development	4	4	4	100
MIP102T	Customized drug Delivery System	4	4	4	100
MIP103T	Drug Regulations and Intellectual Property Rights	4	4	4	100

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MHP104P	Industrial Pharmacy Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
<b>Total</b>		<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>
<b>Semester II</b>					
MHP201T	Advanced Biopharmaceutics and Pharmacokinetics	4	4	4	100
MHP202T	Scale up and Technology Transfer	4	4	4	100
MHP203T	Pharmaceutical Production Technology	4	4	4	100
MHP204T	Entrepreneurship Management	4	4	4	100
MHP205P	Industrial Pharmacy Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
<b>Total</b>		<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>

**Table-3 Course of study for M. Pharm. (Pharmaceutical Chemistry)**

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
<b>Semester I</b>					
MPA101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPC101T	Advanced Organic Chemistry -I	4	4	4	100
MPC102T	Advanced Medicinal chemistry	4	4	4	100
MPC103T	Chemistry of Natural Products	4	4	4	100
MPC104P	Pharmaceutical Chemistry Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
<b>Total</b>		<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>
<b>Semester II</b>					
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
<b>Total</b>		<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>

**Table-4 Course of study for M. Pharm. (Pharmacognosy)**

Course	Course	Credit	Credit	Marks
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Code		Hours	Points	Hrs./wk	
<b>Semester I</b>					
MPA101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPG101T	Advanced Pharmacognosy-I	4	4	4	100
MPG102T	Phytochemistry	4	4	4	100
MPG103T	Industrial Herbal drug technology	4	4	4	100
MPG104P	Pharmacognosy Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
<b>Total</b>		<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>
<b>Semester II</b>					
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
<b>Total</b>		<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>

**Table-5 Course of study for (Pharmacology)**

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
<b>Semester I</b>					
MPA101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPL101T	Advanced Pharmacology-I	4	4	4	100
MPL102T	Pharmacological and Toxicological Screening Methods-I	4	4	4	100
MPL103T	Cellular and Molecular Pharmacology	4	4	4	100
MPL104P	Pharmacology Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
<b>Total</b>		<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>
<b>Semester II</b>					
MPI 201T	Advanced Pharmacology II	4	4	4	100
MPL102T	Pharmacological and Toxicological Screening Methods-II	4	4	4	100
MPI 203T	Principles of Drug Discovery	4	4	4	100
MPI 204T	Experimental Pharmacology practical- II	4	4	4	100
MPI 205P	Pharmacology Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100

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	Total	35	26	35	650
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**Table-6 Course of study for M. Pharm. (Drug Regulatory Affairs)**

Course Code	Course	Credit Hours	Credit Points	Hrs./wk	Marks
<b>Semester I</b>					
DRA101T	Good Pharmaceutical Practices	4	4	4	100
MRA102T	Pharmaceutical Regulations in India	4	4	4	100
DRA103T	International Pharmaceutical Regulations I	4	4	4	100
DRA104T	Clinical Research Regulations	4	4	4	100
DRA105P	Pharmaceutical Regulatory Affairs Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
<b>Total</b>		<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>
<b>Semester II</b>					
DRA201T	Documentation and Regulatory Writing	4	4	4	100
DRA202T	Biologicals Regulations	4	4	4	100
DRA203T	International Pharmaceutical Regulations II	4	4	4	100
DRA204T	Medical Device Regulations	4	4	4	100
DRA205P	Pharmaceutical Regulatory Affairs Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
<b>Total</b>		<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>

**Table-7 Course of study for M. Pharm. III Semester  
(Common for All Specializations)**

Course Code	Course	Credit	Credit
MIRM101T	Research Methodology and Biostatistics	4	4
-	Journal club	1	1
-	Discussion / Presentation (Proposal Presentation)	2	2
-	Research work	28	14
<b>Total</b>		<b>35</b>	<b>21</b>

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**Table-8 Course of study for M. Pharm. IV Semester  
(Common for All Specializations)**

Course Code	Course	Credit	Credit
-	Journal club	1	1
-	Research Work	31	16
-	Discussion / Final Presentation	3	3
-	<b>Total</b>	<b>35</b>	<b>20</b>

**Table-9 Semester wise credits distribution**

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

\*Credit Points for Co-curricular Activities

**Table-10 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 University and the same shall be submitted to the University. The criteria to acquire this credit point shall be defined by the University from time to time.

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#### 10. Program Committee

1. The M. Pharm. programme shall have a Programme Committee constituted by the Head of the Department in consultation with all Senior Most faculty in the concerned department.

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

Head of the Department shall be the Chairperson; TWO Teacher from each M.Pharm specialization by seniority and rotation and four student representatives (two from each academic year), nominated by the Head of the Department.

3. Duties of the Programme Committee:

- Periodically reviewing the progress of the classes.
- Discussing the problems concerning curriculum, syllabus and the conduct of classes.
- 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.
- Communicating its recommendation to the Head of the Department on academic matters.

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4. The Programme Committee shall meet at least twice in a semester preferably at the end of each sessional exam and before the end semester exam.

#### 11. Examinations/Assessments

The schemes for internal assessment and end semester examinations are given in Table – XVII.

##### 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 University.

##### 11.2. Internal assessment: Continuous mode

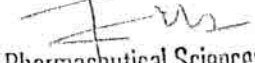
The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

**Table-11: Scheme for awarding internal assessment: Continuous mode**

Theory	
Criteria	Maximum Marks
Attendance (Refer Table – 12)	8
Student – Teacher interaction	2
<b>Total</b>	<b>10</b>
Practical	
Attendance (Refer Table – 12)	10
Based on Practical Records, Regular viva voce, etc.	10
<b>Total</b>	<b>20</b>

**Table-12: 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

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#### 11.2.1. Sessional Exams

Two sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the Department. The scheme of question paper for theory and practical sessional examinations is given below. The best marks of two sessional exams shall be computed for internal assessment. 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 60 marks and shall be computed for 30 marks.

#### Question paper pattern for theory Sessional examinations

For subjects having University examination

I. Multiple Choice Questions (MCQs)/Fill ups/Short answer questions

(Answer all the questions) =  $10 \times 1 = 10$

II. Long Answers (Answer 1 out of 2) =  $1 \times 10 = 10$

III. Short Answers (Answer 2 out of 3) =  $2 \times 5 = 10$

Total = 30 marks

#### For subjects having Non University Examination

I. Long Answers (Answer 1 out of 2) =  $1 \times 10 = 10$

II. Short Answers (Answer 4 out of 6) =  $4 \times 5 = 20$

Total = 30 marks

#### Question paper pattern for practical sessional examinations

I. Synopsis	15
II. Experiments	35
III. Viva voce	10
Total	60 marks

#### 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. In case of 3<sup>rd</sup> and 4<sup>th</sup> semester, the pass percentage will be 50% marks of the overall marks in evaluation of synopsis/thesis including presentation.

#### 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, if his/her internal assessment is less than 40%. 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

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

**Table 13: Tentative schedule of end semester examinations Semester For Regular Candidates For Failed Candidates**

Semester	For regular candidates	For failed candidates
I and III	November/December	May/June
II and IV	May/June	November/December

**Question paper pattern for end semester theory examinations**

**For 75 marks paper**

I. Multiple Choice Questions (MCQs)/Fill Ups/Short Answer Type (Answer all the questions) =	20 x 1 = 20
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

**Question paper pattern for end semester practical examinations**

I. Synopsis =	25
II. Experiments/s =	50
III. Viva voce =	25
Total =	100 marks

**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 -14.**

**Table - 14: 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

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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 and C4 and the student's grade points in these courses are G1, G2, G3 and G4, respectively, and then students' SGPA is equal to:

$$SGPA = \frac{C1G1 + C2G2 + C3G3 + C4G4}{C1 + C2 + C3 + C4}$$

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 ABS grade awarded in that semester. For example if a learner has a F or ABS grade in course 4, the SGPA shall then be computed as:

$$SGPA = \frac{C1G1 + C2G2 + C3G3 + C4 * ZERO}{C1 + C2 + C3 + C4}$$

### 19. Cumulative Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the IV semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all IV 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 34 on subsequent examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

$$CGPA = \frac{C1S1 + C2S2 + C3S3 + C4S4}{C1 + C2 + C3 + C4}$$

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 in Semester III and IV and submit a synopsis at the end of 3<sup>rd</sup> semester and Thesis at the end of 4<sup>th</sup> Semester. Four copies of the synopsis (Typed copy not less than 15 pages/Thesis (typed & bound copy not less than 75 pages) shall be submitted. The internal and external examiner appointed by the University shall evaluate the Thesis at the time of the Practical examinations of other semester(s) maximum in Two slots. The synopsis /Thesis shall be evaluated as per the criteria given below.

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<i>Evaluation of Thesis/Synopsis:</i>	<i>4<sup>th</sup> Semester</i>	<i>3<sup>rd</sup> Semester</i>
Objective(s) of the work done	50 Marks	50 Marks
Methodology adopted	50 Marks	50 Marks
Results and Discussions	50 Marks	50 Marks
Conclusions and Outcomes	50 Marks	--
<b>Total</b>	<b>200 Marks</b>	<b>150 Marks</b>

<i>Evaluation of Presentation:</i>	<i>4<sup>th</sup> Semester</i>	<i>3<sup>rd</sup> Semester</i>
Presentation of work	100 Marks	100 Marks
Communication skills	50 Marks	50 Marks
Question and answer skills	50 Marks	50 Marks
<b>Total</b>	<b>200 Marks</b>	<b>200 Marks</b>
<b>Grand Total</b>	<b>400 Marks</b>	<b>350 Marks</b>

## 22. 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 M.Pharm program shall not be eligible for award of ranks. Moreover, the candidates should have completed the M. Pharm program in minimum prescribed number of years, (two years) for the award of Ranks.

## 23. Award of degree

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

## 24. 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.

## 25. Revaluation/ Re-totaling of answer papers

There is provision for revaluation of the answer papers in theory examination as per University Rules.

## 26. 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.

## 27. Improvement

There is no provision of improvement in final/end semester examination.

Head

Dept. of Pharmaceutical Sciences  
M.D. University, ROHTAK





# MAHARSHI DAYANAND UNIVERSITY ROHTAK

(A State University established under Haryana Act No. XXV of 1975)  
'A' Grade University Accredited by NAAC

Website: [www.mdurohtak.ac.in](http://www.mdurohtak.ac.in)

## NOTIFICATION

It is to notify to all concerned that on the recommendations of the meeting of the Faculty of Pharmaceutical Sciences held on 04.02.2017, the Vice-Chancellor has approved the Ordinances for B.Pharma and M.Pharma based on CBCS w.e.f. session 2017-18 in anticipation approval of the Academic Council under section 9-A(5) of the M.D.University, Rohtak Act as the admission process for these courses for the session 2017-18 is likely to be started very soon.

REGISTRAR

## ACADEMIC BRANCH

Endst.No. AC-VI/17/ 11550-11614 dated: 5/5/17

A copy of the above decision alongwith the Ordinance for B.Pharma and M.Pharma based on CBCS is forwarded to the following for information and necessary action:-

1. All the Deans of the Faculties, M.D.University, Rohtak.
2. All the Directors/Heads of the Departments/Institutes, M.D.University, Rohtak.
3. The Controller of Examinations, M.D.University, Rohtak.
4. The Director (UCC), M.D.University, Rohtak with the request to upload the Ordinances on the University website under home<Academic<Ordinances. This notification may also be uploaded separately.
5. All the Deputy Registrars/Assistant Registrar/Incharge (R-I/II/III/IV/Secrecy/Conduct/Re-Evaluation/Colleges/R&S), M.D.University, Rohtak.
6. P.A. to Vice-Chancellor/Dean Academic Affairs/Registrar, M.D.University, Rohtak for kind information of the latter.
7. Superintendent (Academic-II), M.D.University, Rohtak.

*[Signature]*  
5.5.17  
Incharge (Academic)