

CHALAPATHI INSTITUTE OF PHARMACEUTICAL SCIENCES (AUTONOMOUS)**Academic Rules & Regulations for B.Pharmacy Programme**

(As Approved by the Academic Council of

Chalapathi Institute of Pharmaceutical Sciences)

(Applicable to the students admitted into the First year B.Pharmacy from the academic year 2016-2017 onwards)

Preamble: Chalapathi Institute of Pharmaceutical Sciences (CLPT) has been taking several initiatives towards academic excellence, quality improvement and administrative reforms. Keeping in view of this priority in addition with vision and mission of the institute, the process has been already initiated and achieved. The institution is approved by All India Council for Technical Education (AICTE), Pharmacy Council of India (PCI), Andhra Pradesh State Council for Higher Education (APSCHE), accredited by National Assessment and Accreditation Council (NAAC), recognized by University Grants Commission (UGC) and Department of Scientific & Industrial Research (DSIR). The college has now taken one more step ahead to implement Credit based semester system (CBSS) from academic year 2016-17 onwards for B.Pharmacy programme.

Title: The academic rules and regulations shall be called "**Credit based semester system (CBSS)**" applicable to B. Pharmacy programme of Chalapathi Institute of Pharmaceutical Sciences, Chalapathi Nagar, Lam, Guntur - 522 034, Andhra Pradesh, India.

Scope, application and commencement: The academic regulations provided here in shall be applicable to B. Pharmacy (regular and lateral entry) programme of Chalapathi Institute of Pharmaceutical Sciences. The regulations include definitions of key terms, critical concepts, method of calculations, committees and the evaluation system. These regulations shall come into force with effect from the admissions commencing from 2016-2017 onwards.

Rationale for introduction of Credit based semester system :

- The Ministry of Human Resource Development (MHRD) of central and state governments has emphasized on the need for universities/ colleges to adopt measures to improve the quality of education.
- The need for enhanced learning opportunities, ability to match learner's scholastic needs and aspirations, improvement in educational quality and excellence, flexibility for learners to complete the programme in specified period of time, standardization and comparability of educational programmes.
- To develop a Credit based semester system (CBSS) in tune with global trends; the adoption of a sound grading system for reflecting learner performance.



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DEFINITIONS:

Academic Year: Two consecutive (one odd + one even) semesters constitute one academic year.

Credit based semester system (CBSS): Credit based semester system is a flexible system of learning that permits students to select from the prescribed elective courses.

Programme: 'Programme' means a set of the required number of semesters leading to the award of B.Pharmacy degree.

Course: Usually referred to, as "papers" is a component of a programme. All courses need not carry the same weightage. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ industrial training/viva-voce/ seminars/ group discussion/ soft skills/ technical skills/ entrepreneurship /assignments/ presentations etc., or a combination of some of these to meet the objectives/outcomes.

Semester: 'Semester' means a term consisting of a minimum of 630 contact periods distributed over 90 working days spread over 15 weeks of six-day duration each and seven contact periods with 50 minutes duration. Depending upon its duration, each academic year will be divided into two semesters. Semesters will be known as either odd Semester or even semester. The Semester from July to November will be semesters I or III, V or VII and similarly the semester from December to April will be semesters II or IV, VI or VIII.

Credit Based Semester System (CBSS): Under the CBSS, the requirement for awarding a degree is prescribed in terms of number of credits to be completed by the students.

Credits: Credit is a kind of weightage given based on marks weightage which is in a unit form. One credit is equivalent to 25 marks of weightage

Credit point (p): Credit point is the value obtained by multiplying the grade point (G) by the credit (C): $P = G \times C$.

Grade point (G): Grade point is an integer indicating the numerical equivalent of the letter grade.

Semester Grade Point Average (SGPA): Semester Grade Point Average (SGPA) is the value obtained by dividing the sum of credit points earned by a student in various courses taken together in a semester by the total number of credits earned by the student in that semester. SGPA shall be rounded off to two decimal places. SGPA indicates the comprehensive academic performance of a student in a semester.



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Cumulative Grade Point Average (CGPA): Cumulative Grade Point Average (CGPA) is the value obtained by dividing the sum of credit points in all the courses earned by a student for the entire programme, by the total number of credits. CGPA shall be rounded off to two decimal places. CGPA indicates the comprehensive academic performance of a student in a programme.

Letter Grade: It is an index of the performance of students in a said course. Grades are denoted by letters O, A, B, C, D, E, F and AB.

Transcript or Grade Card or Certificate: Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.




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ACADEMIC REGULATIONS FOR B. PHARMACY (REGULAR)

Applicable for the students of B. Pharmacy (Regular) from the academic year 2016-17 onwards and for lateral entry students from the academic year 2017-2018 onwards.

1. Title and duration of the Programme:

- The course shall be called as the Degree course in Bachelor of Pharmacy, abbreviated as B.Pharmacy.
- The minimum period required to complete the programme is 4 years (8 semesters).
- The maximum period required to complete the programme is 8 years.
- For lateral entry students, the minimum period required to complete the programme is 3 years (6 semesters) and the maximum period is 6 years.
- After completion of maximum duration **NO EXTENSION** will be granted, they shall forfeit their seat in B.Pharmacy programme and their admission shall stand cancelled.

2. Admission to B.Pharmacy Programme:

- A candidate seeking admission into first year of B.Pharmacy degree programme should have passed intermediate examination conducted by the board of intermediate education, Andhra Pradesh with Bi.P.C or M.P.C. Any other equivalent examination recognized by Department of Technical Education/APSCH/PCI/ AICTE/University and / or the government of Andhrapradesh from time to time.
- The selection is based on the rank secured by the candidate in the EAMCET examination conducted by A.P. State Council of Higher Education. The candidate shall also satisfy eligibility requirements stipulated by Department of Technical Education/APSCH/PCI/ AICTE/University and / or the government of Andhrapradesh from time to time.
- **B.Pharmacy Lateral Entry (to third semester).** A pass in D. Pharmacy course from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act 1948. Students will be admitted into II B.Pharmacy programme by ECET convenor/University as per the rules and regulations laid by Department of Technical Education/APSCH/PCI/ AICTE/University and / or the government of Andhra Pradesh from time to time.

3. Registration:

Each student has to compulsorily register for course work at the beginning of each semester as per the schedule mentioned in the academic calendar. It is absolutely necessary for the student to register for courses in time.



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4. Minimum instruction days:

The minimum instruction days for each semester shall be 90 days.

5. Examination system & evaluation:

The performance of the students in each semester shall be assessed subject-wise for a maximum of 100 marks each, for theory and practical. All assessments will be done on absolute mark basis. However, for the purpose of reporting the performance of a candidate, letter grades and grade points will be awarded. The performance of a student in each course is assessed with sessional examinations on a continuous basis during the semester called Continuous Internal Assessment and a Semester End Examination (SEE) conducted at the end of the semester. Every student shall be evaluated for semester end examination by theory and practical subjects of three and four hours duration **(As per the Annexure - III)**.

6. Continuous Internal Evaluation (CIE):

6.1 Evaluation of theory subjects:

- For theory subjects the distribution shall be 30 marks for Continuous Internal Assessment (CIA) and 70 marks for the Semester End-Examination (SEE).
- For theory subjects, during the semester there shall be 2 sessional examinations. Each sessional examination shall consist of section-A (Objective Questions) for 5 marks, section-B (Short Answers) for 15 marks and section-C (Long Answers) for 10 marks with duration of 90 Minutes. **(Model Question Paper : Annexure - I)**
- First assignment should be submitted before the conduct of the first sessional examination, and the second assignment should be submitted before the conduct of the second sessional examination.
- The total marks secured by the student in each sessional examination for 30 marks will be considered and the average of two sessional examinations will be taken as the final marks secured by candidate.
- It is mandatory for the student to attend both the internal assessment examinations.
- There shall be a pre-final (open book) examination before every semester end examination.

6.2 Evaluation of practical subjects:

- For practical subjects there shall be a continuous internal evaluation during a semester for 30 marks. Out of 30 marks, day-to-day work in the laboratory shall be evaluated for 10 marks and internal practical examination shall be evaluated for 20 marks conducted by the respective laboratory teacher. **(Model Question Paper : Annexure - I)**
- The total marks secured by the student in each sessional examination for 30 marks shall be considered and the average of two sessional examinations shall be taken as the final marks secured by each candidate.



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6.3 Evaluation of assignments / seminars / group discussion:

Assignments/Seminars/Group discussions shall be evaluated by internal examiner(s) for 50 (2 x 25) marks. There shall be no external examination. The evaluation pattern is given in **Annexure - II**.

7 Semester End Examination (SEE):

7.1 Evaluation of theory subjects:

- The semester end examination will be conducted for 70 marks, which consists of three parts viz. i). Section -A for 10 marks, ii). Section -B for 20 marks. iii) Section -C for 40 marks. (**Model Question Paper : Annexure - III**)
- The evaluation and question paper setting shall be entrusted to external examiners from the panels approved by the respective Boards of Studies.
- Candidates shall be permitted to apply for recounting/revaluation of SEE scripts within the stipulated period by payment of the prescribed fee.

7.2 Evaluation of practical subjects:

- The semester end examination will be conducted for 70 marks which consists of three parts viz. i). Synopsis / spotters - 10 marks ii). Major experiment - 30 marks iii) Minor experiment - 20 marks iv) Viva-voce - 10 marks. (**Model Question Paper : Annexure - III**).
- The practical semester end examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed by the Principal from the panel of examiners recommended by the chairman, board of studies in respective branches.

7.3 Evaluation of project:

- Project work shall be evaluated for 100 marks, 30 marks for the continuous internal evaluation and 70 marks for the semester end examination.
- The continuous internal evaluation shall be on the basis of two seminars given by each student on the topic of the project. The semester end evaluation of project work shall be conducted at the end of the VIII semester by external and internal examiners.
- The dissertation work of the project shall be evaluated on the basis of the performance and presentation skills on parameters like abstract, objectives, general introduction, drug profile, review of literature, plan of work, methodology/experimental work and investigations, interpretation and analysis of data, results and discussion. (**Pattern of dissertation to be submitted is enclosed as Annexure - IV**).



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8 Attendance requirements:

- A student is eligible to write the sessional / semester end examinations only if he / she acquires a minimum of 80% of attendance in aggregate of all the subjects.
- Condonation for the shortage of attendance on an aggregate up to 10% (70% and above and below 80%) in each semester may be granted on medical grounds with a documentary evidence approved by the Principal. However, in the case of the students, who participated in activities like N.S.S., N.C.C., inter-colligate tournaments, inter-university tournaments and any such other activities involving the representation of the college with prior approval from the Principal, the candidate may be deemed as attended to the college during the period solely for the purpose of the examination.
- A stipulated fee shall be payable towards condonation of shortage of attendance.
- Shortage of attendance below 70% in aggregate shall not be condoned under any circumstances and students are not eligible to write sessional / semester end examinations of that semester. Such students are detained and their registration for examination stands cancelled.

09 Grade points: Marks shall be awarded to indicate the performance of each student in each theory subject, practicals, assignments, seminars, group discussion, technical skills, elective course and project etc., based on % of marks obtained in CIA+SEE (continuous internal assessment + semester end examination, both taken together) and a corresponding letter grade shall be given.

- As a measure of the student's performance, a 10-point absolute grading system shall be followed. The letter grades and corresponding marks secured are given in Table No. 2.

Table No. 2 : Grade and Grade Points

Marks secured	Letter Grade	Grade Point	Performance
90.00 - 100	O	9.0 to 10.0	Out Standing
80.00 - 89.99	A	8.0 to 8.9	Excellent
70.00 - 79.99	B	7.0 to 7.9	Good
60.00 - 69.99	C	6.0 to 6.9	Fair
50.00 - 59.99	D	5.0 to 5.9	Average
40.00 - 49.99	E	4.0 to 4.9	Pass
Less than 40	F	0.0	Fail
Absent	AB	0.0	Fail



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- A letter grade does not imply any specific % of marks.
- A student earns Grade Point (GP) in each Subject basing on Letter grade obtained by him in that subject. Then the corresponding "Credit Points" (CP) are computed by multiplying the grade point with credits for that particular subject.

Credit Points (CP) = Grade Point (GP) x Credits for a subject

A student passes the subject only when he gets GP 5 (E Grade or above).

10 Grade point average:

Computation of SGPA and CGPA

The credit index can be used further for calculating the Semester Grade Point Average (SGPA) and the Cumulative Grade Point Average (CGPA), both of which being important performance indices of the student. While SGPA is equal to the credit index for a semester divided by the total number of credits registered by the student in that semester, CGPA gives the sum total of credit indices of all the previous semesters divided by the total number of credits registered in all these semesters. Thus, the Grade Point Average (GPA) will be calculated according to the formula:

$$GPA = \frac{\sum C_i G_i}{\sum C_i}$$

Where C_i = number of credits for the subject i ,

G_i = grade points obtained by the student in the subject.

Semester Grade Point Average (SGPA) is awarded to candidates considering all the subjects of the semester. Zero grade points are also included in this computation. SGPA is rounded off to TWO Decimal Places.

SGPA will be computed as follows;

$\frac{\sum [(subject\ credits) \times (Grade\ points)]}{\sum [(Subject\ credits)]}$ (for all Subjects passed in that semester)

(for all Subjects registered in that semester)

To arrive at Cumulative Grade Point Average (CGPA), the formula is used considering the student's performance in all the subjects taken in all the semesters completed up to the particular point of time. CGPA is rounded off to TWO Decimal Places.

CGPA will be computed as follows:

$\frac{\sum [(Subject\ credits) \times (Grade\ points)]}{\sum [(Subject\ credits)]}$ (for all Subjects passed upto that semester)

(for all Subjects registered until that semester)

CGPA is thus computed from the I year first semester onwards, at the end of each Semester, as per the above formula. However, the SGPA of I year I semester itself may be taken as the CGPA.



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11 Earning of credit:

A student shall be considered to have completed a course successfully and earned the credits if he/she secures an acceptable letter grade in the range "O" to "E". Letter grade 'F' in any subject implies failure of the student in that subject and no credits earned.

12 Passing standards:

- A student shall be declared to have passed the examination in each semester if he obtains not less than 40 % marks in each theory and 40 % in each practical of the semester end examination in addition to 50 % aggregate including theory and practicals of internal and semester end examinations.
- After the completion of each semester, a grade card or grade sheet shall be issued to all the registered students of that semester, indicating the letter grades and credits earned, SGPA and CGPA.

13 Conditions under which candidates are permitted to proceed to next higher class:

- A student not detained in the first semester of a year of study shall be promoted to second semester of that year of study.
- A student shall be eligible for promotion to II year of B.Pharmacy programme if he/she is not detained in the first and second semester of first year B.Pharmacy programme irrespective of the number of backlog subjects in I year B.Pharmacy.
- A student shall be eligible for promotion to III year of B.Pharmacy programme if he/she is not detained in IV semester of B.Pharmacy programme and has passed all but **three courses** of I year B.Pharmacy (including laboratory subjects).
- A student shall be eligible for promotion to IV year of B.Pharmacy programme if he/she is not detained in VI semester of B.Pharmacy programme and has passed all but **three courses** of II B.Pharmacy (including laboratory subjects) and all but **one courses** of I year B.Pharmacy (including laboratory subjects).




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14 Award of B.Pharmacy degree:

A student shall be eligible for award of the B.Pharmacy degree if he/she fulfils the following conditions:

- Registered and successfully completed all the components prescribed in the programme of study to which he/she is admitted.
- Obtained CGPA greater than or equal to 5.0.
- Has no dues to the Institute, hostels, libraries, NCC/NSS etc.,
- No disciplinary action is pending against him/her.

15 Award of class: After a student has satisfied the requirements prescribed for the completion of the programme and is eligible for the award of B. Pharmacy degree, he/she shall be placed in one of the following three classes as given in the Table No. 4.

Table No. 4: CGPA required for award 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

- The marks obtained in Continuous Internal Evaluation (CIA) and Semester end Examination (SEE) will not be shown in the memorandum of marks.

16 Consolidated grade card:

A consolidated grade card containing credits & grades obtained by the candidates will be issued after completion of the four / three (Lateral Entry Students) years B. Pharmacy programme.

17 Award of rank / medals / prizes :

The rank shall be awarded based on the following:

- Ranks/ medals / prizes shall be awarded on the basis of final CGPA. However, candidates who fail in one or more subjects during the B.Pharmacy programme shall not be eligible for award of such ranks / medals / prizes.
- If two students get the same CGPA, the tie should be resolved by considering the number of times a student has obtained higher SGPA; But, if it is not resolved even at this stage, the number of times a student has obtained higher grades like O, A, B, etc., shall be taken into account in rank ordering of the students in a class



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- The rank will be awarded only to those candidates who complete their degree within four academic years.
- For the purpose of awarding rank, the CGPA calculated based on the grades secured at the first attempt only shall be considered.

18 Withholding of results:

If the student has not paid the dues, if any, to the institute or if any indiscipline action is pending against him, the result of the student will be withheld. His/her degree will be withheld in such cases the matter will be referred to the Principal.

19 Transitory regulations:

- Discontinued or detained candidates are eligible for readmission as per the guidelines of university admission procedure.
- Students on transfer shall complete the prescribed courses of the concerned programme not covered earlier, however, he/she should take the remaining programme along with others.

20 Transcripts:

After successful completion of the total programme of study, a transcript containing performance of all academic years will be issued as a final record. Duplicate transcripts will also be issued if required after the payment of requisite fee.

21 Improvement of class:

A candidate may be permitted to improve his performance in semester-end examination of any semester only after completing the entire eight semester programme of study by appearing again for the whole examinations of that semester only during four subsequent years after completion of the study of the entire course. Such an improvement can be availed only once for each one of the semester examinations of the entire course of study. When considered in its totality the better of the two performances as whole at the I, II, III, IV, V, VI, VII or VIII semesters as the case may be shall be taken into consideration for the purpose of awarding the grade. However, this facility shall not be availed of by a candidate who has taken the original degree certificate.

- 22 Improvement of Internal assessment:** A student shall have the opportunity to improve his/her performance only once in the sessional examination component of the internal assessment. The conduct of the re-sessional examination shall be completed before the commencement of next semester end theory examinations by paying prescribed fee.



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23 Supplementary examinations:

- In addition to the regular final examinations held at the end of each semester, supplementary final examinations will be conducted during the academic year. Candidates taking the regular / supplementary examinations as supplementary candidates may have to take more than one semester end examination per day. A student can appear for any number of supplementary examinations till he/she clears all courses which he/she could not clear in the first attempt. However the maximum stipulated period cannot be relaxed under any circumstances.
- A student eligible to appear in the semester end examination in any subject, but absent at it or failed (thereby failing to secure E-grade or above), may reappear for that subject at the supplementary as and when examination conducted. In such cases, his internal marks (CIA) assessed earlier for that subject will be carried over, and added to the marks to be obtained in the supplementary examinations, for evaluating his performance in that subject.

24 Instant examinations:

Candidates who fail in one theory subject of VIII semester can appear for instant supplementary examination conducted after declaration of the revaluation results of the VIII semester end examinations by paying prescribed fee.

25 Scribe/Reader/Interpreter:

- The facility of scribe/reader/interpreter shall be allowed for any persons who has physical disability of 40% or more, visually challenged, low vision, orthopedic disability (permanent or temporary) or with disability where the candidate cannot write the exams on his own hands, if desired by the candidate with prior approval from the Principal/Examination authority.
- Scribe/reader/interpreter should be from different discipline and approved by the Principal/Examination authority.

26 Graduation ceremony:

- The college shall have its own annual graduation ceremony for the award of degree to students completing the prescribed academic requirements in each case, in consultation with the university and by following the provisions in the Statute.
- The college shall institute prizes and awards/medals to meritorious students, for being given away annually.




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27 Termination from the programme:


The admission of a student to the programme may be terminated and the student asked to leave the Institute in the following circumstances:

- The student fails to satisfy the requirements of the programme within the maximum period stipulated for that programme.
- The student fails to satisfy the norms of discipline / who indulge in ragging.

28 Conduct and discipline:

- Students shall conduct themselves within and outside the premises of the institute in a manner befitting the students of our institution.
- As per the order of Honorable Supreme Court of India, ragging in any form is considered as a criminal offence and is banned. This is monitored by anti-ragging committee and anti-ragging squad constituted by the college. Any form of ragging will be severely dealt with.
- The following acts of omission and / or commission shall constitute gross violation of the code of conduct and are liable to invoke disciplinary measures.
 - Lack of courtesy and decorum, indecent behavior anywhere within or outside the campus.
 - Wilful damage of college / individual property
 - Possession, consumption or distribution of alcoholic drinks or any kind of narcotics or hallucinogenic drugs.
 - Mutilation or unauthorized possession of library books.
 - Watching of forbidden sites.
 - Noisy and unseemly behavior, disturbing studies of fellow students.
 - Hacking of computer systems (such as entering into other person's areas without prior permission, manipulation and / or damage of computer hardware and software or any other cyber-crime etc.)
 - Usage of camera / cell phone in the campus
 - Plagiarism of any nature
- All cases of serious offence, possibly requiring punishment other than reprimand, shall be reported to the Principal.
- The principal shall deal with any academic problem, which is not covered under these rules and regulations. Any emergency modification of regulation, approved by the appropriate authority, shall be reported to the academic council for ratification.




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29 Grievance and redressal Committee:

Grievance and redressal Committee constituted by the Principal shall deal with all grievances pertaining to the academic / administrative / disciplinary matters.

30 Industrial Training:

The candidates have to undergo industrial training for one month (200 hours minimum) during the vacation after VI Semester examination or VIII Semester examination. The industrial training certificate should be submitted to the head of the department.

31 Amendments:

The regulations hereunder are subject to amendments as may be made by the academic council of the college from time to time. Any or all such amendments will be effective from such date and to such batches of candidates (including those already undergoing the program) as may be decided by the academic council.

32 General:

- Wherever the words "he", "him", "his", occur in the regulations, they include "she", "her", "hers".
- The academic regulation should be read as a whole for the purpose of any interpretation.
- In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the academic council is final.

33. MOOCs Courses: Students shall register for two MOOC courses, one in 7th Semester and the other one in 8th Semester either from the SWAYAM platform (MHRD) or from the university website and to allot four credits for each MOOC (2 X 4 = 8 credits) and submit the marks memorandum to the coordinator of MOOCs - CLPT (Autonomous).




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CHALAPATHI INSTITUTE OF PHARMACEUTICAL SCIENCES (AUTONOMOUS)

(Approved in 2nd Academic council meeting dated 02/04/2017)

B.PHARMACY REGULATIONS (New Regulations w.e.f. 2017 EAMCET Batch)

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.




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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.



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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.



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I/IV B.PHARMACY 1st SEMESTER

Course Code	Name of the course	No. of hrs	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	Remedial Biology	2	-	2
BP106RMT	Remedial mathematics (Theory*)			
BP107P	Human Anatomy and Physiology-I (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.

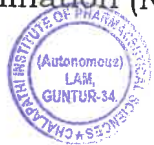
* Non University Examination (NUE)



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I/IV B.PHARMACY 2nd SEMESTER

Course Code	Name of the course	No. of hrs	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)




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II/IV B.PHARMACY 3rd SEMESTER

Course Code	Name of the course	No. of hrs	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
BP305T ✓	Professional Ethics & Human Values * (Theory)	2	-	-
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
TOTAL		30	4	24

(NOTE : * Non-Credit and Non-Semester and Examination Course)

II/IV B.PHARMACY 4th SEMESTER

Course Code	Name of the course	No. of hrs	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

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III/IV B.PHARMACY 5th SEMESTER

Course Code	Name of the course	No. of hrs	Tutorial	Credit points
BP501T	Medicinal Chemistry II (Theory)	3	1	4
BP502T	Industrial Pharmacy I (Theory)	3	1	4
BP503T	Pharmacology I (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

III/IV B.PHARMACY 6th SEMESTER

Course Code	Name of the course	No. of hrs	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



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IV/IV B.PHARMACY 7th SEMESTER

Course Code	Name of the course	No. of hrs	Tutorial	Credit points
BP701T ✓	Instrumental Methods of Analysis (Theory)	3	1	4
BP702T ✓	Industrial Pharmacy II (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 ✓	Practical School*	12	-	6
	TOTAL	28	5	24

IV/IV B.PHARMACY 8th SEMESTER

Course Code	Name of the course	No. of hrs	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



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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 HSP 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.



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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 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 college level and the marks/grades shall be submitted to the university.




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Tables-X: Schemes for Internal assessments and end semester examinations semester wise
SEMESTER-I

Course Code	Name of the course	Continuous Mode			Internal Assessment		End Semester Exams		Total Marks
		Mode	Marks	Duration	Marks	Duration	Marks	Duration	
BP101T	Human Anatomy and Physiology I-(Theory)	10	15	1 hr	15	1 hr	75	3 hrs	100
BP102T	Pharmaceutical Analysis I-(Theory)	10	15	1 hr	15	1 hr	75	3 hrs	100
BP103T	Pharmaceutics I - (Theory)	10	15	1 hr	15	1 hr	75	3 hrs	100
BP104T	Pharmaceutical Inorganic Chemistry-(Theory)	10	15	1 hr	15	1 hr	75	3 hrs	100
BP105T	Communication skills-(Theory*)	5	10	1 hr	10	1 hr	35	1.5 hrs	50
BP106RBT	Remedial Biology	5	10	1 hr	10	1 hr	35	1.5 hrs	50
BP106RMT	Remedial mathematics-(Theory*)	5	10	1 hr	10	1 hr	35	1.5 hrs	50
BP107P	Human Anatomy and Physiology- I (Practical)	5	10	4 hrs	10	4 hrs	35	4 hrs	50
BP108P	Pharmaceutical Analysis I-(Practical)	5	10	4 hrs	10	4 hrs	35	4 hrs	50
BP109P	Pharmaceutics I-(Practical)	5	10	4 hrs	10	4 hrs	35	4 hrs	50
BP110P	Pharmaceutical Inorganic Chemistry-(Practical)	5	10	4 hrs	10	4 hrs	35	4 hrs	50
BP111P	Communication Skills-(Practical*)	5	5	2 hrs	5	2 hrs	15	2 hrs	25
BP112RBP	Remedial Biology-(Practical*)	5	5	2 hrs	5	2 hrs	15	2 hrs	25
	TOTAL	70/75\$/80#	23/24\$/26#	23/25\$/26# hrs	23/24\$/26#	23/25\$/26# hrs	490/525 \$/540#	31.5/33\$/3 5# hrs	675/725\$/750#

Applicable ONLY for the students studied Mathematics/Physics/Chemistry at HSC and appearing for Remedial Biology (RB) course,
 \$ Applicable ONLY for the students studied Physics/Chemistry/Botany/Zoology at HSC and appearing for Remedial Mathematics (RM) course.
 * Non University Examination (NUE)



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Course Code	Name of the course	Internal Assessment			Total	End Semester Exams		Total Marks
		Continuous Mode	Sessional Marks	Sessional Exams 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	10	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-II

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	Physical Pharmaceutics I (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 hrs	15	35	4 hrs	50
BP306P	Physical Pharmaceutics I (Practical)	5	10	4 hrs	15	35	4 hrs	50
BP307P	Pharmaceutical Microbiology (Practical)	5	10	4 hrs	15	35	4 hrs	50
BP308P	Pharmaceutical Engineering (Practical)	5	10	4 hrs	15	35	4 hrs	50
	TOTAL	60	100	20	160	440	28 hrs	600



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B. Pharmacy Regulations (New Regulations with effect from 2017 EAMCET batch)

SEMESTER-IV

Course Code	Name of the course	Internal Assessment			End Semester Exams		Total Marks
		Continuous Mode	Sessional Marks	Sessional Exams Duration	Marks	Duration	
BP401T	Pharmaceutical Organic Chemistry III (Theory)	10	15	1 hr	25	75	100
BP402T	Medicinal Chemistry I (Theory)	10	15	1 hr	25	75	100
BP403T	Physical Pharmaceutics II (Theory)	10	15	1 hr	25	75	100
BP404T	Pharmacology I (Theory)	10	15	1 hr	25	75	100
BP405T	Pharmacognosy and Phytochemistry I (Theory)	10	15	1 hr	25	75	100
BP406P	Medicinal Chemistry I (Practical)	5	10	4 hrs	15	35	50
BP407P	Physical Pharmaceutics II (Practical)	5	10	4 hrs	15	35	50
BP408P	Pharmacology I (Practical)	5	10	4 hrs	15	35	50
BP409P	Pharmacognosy and Phytochemistry I (Practical)	5	10	4 hrs	15	35	50
	TOTAL	70	115	21 hrs	515	515	700



SEMESTER-IV

SEMESTER-V

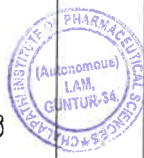
Course Code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Marks	Sessional Duration	Total	Marks	Duration	
BP501T	Medicinal Chemistry II (Theory)	10	15	1 hr	25	75	3 hrs	100
BP502T	Industrial Pharmacy I (Theory)	10	15	1 hr	25	75	3 hrs	100
BP503T	Pharmacology II (Theory)	10	15	1 hr	25	75	3 hrs	100
BP504T	Pharmacognosy and Phytochemistry 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 Pharmacy I (Practical)	5	10	4 hrs	15	35	4 hrs	50
BP507P	Pharmacology II (Practical)	5	10	4 hrs	15	35	4 hrs	50
BP508P	Pharmacognosy and Phytochemistry II (Practical)	5	10	4 hrs	15	35	4 hrs	50
	TOTAL	65	105	17 hrs	170	480	27 hrs	650



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SEMESTER-VI

Course Code	Name of the course	Internal Assessment			End Semester Exams		Total Marks
		Continuous Mode	Sessional Marks	Sessional Exams Duration	Marks	Duration	
BP601T	Medicinal Chemistry III (Theory)	10	15	1 hr	75	3 hrs	100
BP602T	Pharmacology III (Theory)	10	15	1 hr	75	3 hrs	100
BP603T	Herbal Drug Technology (Theory)	10	15	1 hr	75	3 hrs	100
BP604T	Biopharmaceutics and Pharmacokinetics (Theory)	10	15	1 hr	75	3 hrs	100
BP605T	Pharmaceutical Biotechnology (Theory)	10	15	1 hr	75	3 hrs	100
BP606T	Quality Assurance (Theory)	10	15	1 hr	75	3 hrs	100
BP607P	Medicinal Chemistry III (Practical)	5	10	4 hrs	35	4 hrs	50
BP608P	Pharmacology III (Practical)	5	10	4 hrs	35	4 hrs	50
BP609P	Herbal Drug Technology (Practical)	5	10	4 hrs	35	4 hrs	50
	TOTAL	75	120	18 hrs	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 II (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
BP705P	Instrumental Methods of Analysis (Practical)	5	10	1 hr	15	35	4 hrs	50
BP706PS	Practical School*	25			25	125	5 hrs	150
	TOTAL	70	70	8 hrs	140	460	21 hrs	600



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SEMESTER-VIII

Course Code	Name of the course	Internal Assessment			End Semester Exams		Total Marks
		Continuous Mode	Sessional Marks	Sessional Exams Duration	Marks	Duration	
BP801T	Biostatistics and Research Methodology	10	15	1 hr	75	3 hrs	100
BP802T	Social and Preventive Pharmacy	10	15	1 hr	75	3 hrs	100
BP803ET	Pharma marketing Management						
BP804ET	Pharmaceutical Regulatory Science						
BP805ET	Pharmacovigilance						
BP806ET	Quality Control and Standardization of Herbs						
BP807ET	Computer Aided Drug Design						
BP808ET	Cell and Molecular Biology	10 + 10 = 20	15 + 15 = 30	1 + 1 = 2 hrs	75 + 75 = 150	3 + 3 = 6 hrs	100 + 100 = 200
BP809ET	Cosmetic Science						
BP810ET	Experimental Pharmacology						
BP811ET	Advanced Instrumentation Techniques						
BP812ET	Dietary Supplements and Nutraceuticals						
BP813PW	Project Work	0	0	0	150	4 hrs	150
	TOTAL	40	60	4 hrs	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



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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 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
(Answer all the questions) (or) Objective type Q	=	(5 x 2)
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 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.


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15. Re-examination of end semester examinations

Re-examination 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)	=	20 x 1 = 20
(Answer all the questions) (or) Objective type Q		10 x 2
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

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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.



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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:

$$C1G1 + C2G2 + C3G3 + C4G4 + C5G5$$

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

$$C1 + C2 + C3 + C4 + C5$$

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 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:

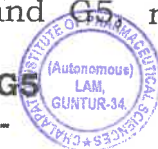
$$C1G1 + C2G2 + C3G3 + C4 * ZERO + C5G5$$

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

$$C1 + C2 + C3 + C4 + C5$$

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.



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The CGPA is calculated as:

$$\text{CGPA} = \frac{C_1S_1 + C_2S_2 + C_3S_3 + C_4S_4 + C_5S_5 + C_6S_6 + C_7S_7 + C_8S_8}{C_1 + C_2 + C_3 + C_4 + C_5 + C_6 + C_7 + C_8}$$

where C_1, C_2, C_3, \dots is the total number of credits for semester I, II, III, \dots and S_1, S_2, S_3, \dots is the SGPA of semester I, II, III, \dots .

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

Evaluation of Presentation:

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

Total 75 Marks

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.


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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.



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DRAFT FOR DISSERTATION / THESIS ORGANIZATION

The draft of the thesis/dissertation should be organized into following sections with subsections (if any).

- **Abstract**
- **Introduction**
- **Aim & Objectives**
- **Plan of Work**
- **Review of Literature**
- **Materials and Methods**
- **Observations and Results**
- **Discussion**
- **Summary and Conclusion**
- **References /Bibliography**
- **Appendices (Including publications and presentations)**

Refer the following guidelines to organize the draft and final electronic copy of the thesis/dissertation for B.Pharmacy programme.

A) Language: Text language must be English.

B) Binding: Dissertation shall be submitted as black/brown bound with colour laser print of front cover and back cover.

C) Front Cover:

Front cover shall bear clearly all information viz, dissertation title, name of candidate & mentor/ co-mentor if any, name of institute, year of submission etc., Format for front cover and spin is given herewith separately (**Annexure - VI**). The spin of thesis shall bear the name of the candidate, degree for which dissertation submitted, college and year of submission.

D) Paper:

It must be A4 size, printed on good quality white paper (Executive bond - 70 gsm) on one side of the paper only. Photographs and other special figures or tables may be printed on photographic quality paper.



Academic Rules & Regulations (w.e.f. 2016-2017) - M.Pharmacy

Academic Rules & Regulations for M. Pharmacy Programme

(As Approved by the Academic Council of

Chalapathi Institute of Pharmaceutical Sciences)

(Applicable to the students admitted into the First year M.Pharmacy from the academic year 2016-2017 onwards)

Preamble: Chalapathi Institute of Pharmaceutical Sciences (CIPS) has been taking several initiatives towards academic excellence, quality improvement and administrative reforms. Keeping in view of this priority in addition with vision and mission of the institute, the process has been already initiated and achieved. The institution is approved by All India Council for Technical Education (AICTE), Pharmacy Council of India (PCI), Andhra Pradesh State Council for Higher Education (APSCHE), accredited by National Assessment and Accreditation Council (NAAC), recognized by University Grants Commission (UGC) and Department of Scientific & Industrial Research (DSIR). The college has now taken one more step ahead to implement Choice Based Credit System (CBCS) from academic year 2016-17 onwards for M.Pharmacy programme.

Title:

The academic rules and regulations shall be called "**Choice Based Credit System (CBCS)**" applicable to M. Pharmacy programme of Chalapathi Institute of Pharmaceutical Sciences, Chalapathi Nagar, Lam, Guntur - 522 034, Andhra Pradesh, India.

Scope, application and commencement:


The academic regulations provided herein shall be applicable to M. Pharmacy programme of Chalapathi Institute of Pharmaceutical Sciences. The regulations include definitions of key terms, critical concepts, method of calculations, committees and the evaluation system. These regulations shall come into force with effect from the admissions commencing from 2016-2017 onwards.

Rationale for introduction of Choice Based Credit System:

- The Ministry of Human Resource Development (MHRD) of central and state governments has emphasized on the need for universities/colleges to adopt measures to improve the quality of education.
- The need for enhanced learning opportunities, ability to match learner's scholastic needs and aspirations, improvement in educational quality and excellence, flexibility for learners to complete the programme in specified period of time, standardization and comparability of educational programmes.
- To develop a Choice-Based Credit System (CBCS) in tune with global trends; the adoption of a sound grading system for reflecting learner performance.



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Advantages of the choice based credit system:

- Shift in focus from the teacher-centric to student-centric education.
- CBCS affords more flexibility to learners by allowing them to choose inter-disciplinary, intra-disciplinary courses and skill oriented papers, etc.,
- CBCS makes education broad to be on par with global standards.
- Respecting learner autonomy and allowing learners as per the needs, interests and aptitudes.
- To benefit transparency and compatibility between different educational structures.
- Provide greater flexibility for the student to spend time on co-curricular courses and extracurricular activities to earn extra credits outside the class room.
- To make best use of faculty expertise.

DEFINITIONS:

Academic Year: Two consecutive (one odd + one even) semesters constitute one academic year.

Choice-Based Credit System (CBCS): CBCS is a flexible system of learning that permits students to select from the prescribed elective courses.

Programme: 'Programme' means a set of the required number of semesters leading to the award of M.Pharmacy degree.

Course: Usually referred to, as "papers" is a component of a programme. All courses need not carry the same weightage. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/ tutorials/ laboratory work/ project work/ viva-voce/ seminars/ comprehensive viva-voce/ soft skills/ technical skills/ entrepreneurship /journal club/ presentations, etc., or a combination of some of these to meet the objectives/outcomes.

Semester: 'Semester' means a term consisting of a minimum of 630 contact periods distributed over 90 working days spread over 15 weeks of six-day duration each and seven contact periods with 50 minutes duration. Depending upon its duration, each academic year will be divided into two semesters. Semesters will be known as either odd Semester or even semester. The Semester from July to November will be semesters I or III similarly the semester from December to April will be semesters II or IV.

Credit Based Semester System (CBSS): Under the CBSS, the requirement for awarding a degree is prescribed in terms of number of credits to be completed by the students.



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Credits: Credit is a kind of weightage given to the contact hours to teach the prescribed syllabus, which is in a unit form. One credit is equivalent to one hour of teaching (lecture) and for practical's one credit is equivalent to two hours.

Credit point (p):

Credit point is the value obtained by multiplying the grade point (G) by the credit (C): $P = G \times C$.

Grade point (G):

Grade point is an integer indicating the numerical equivalent of the letter grade.

Semester Grade Point Average (SGPA):

Semester Grade Point Average (SGPA) is the value obtained by dividing the sum of credit points earned by a student in various courses taken together in a semester by the total number of credits earned by the student in that semester. SGPA shall be rounded off to two decimal places. SGPA indicates the comprehensive academic performance of a student in a semester.

Cumulative Grade Point Average (CGPA):

Cumulative Grade Point Average (CGPA) is the value obtained by dividing the sum of credit points in all the courses earned by a student for the entire programme, by the total number of credits. CGPA shall be rounded off to two decimal places. CGPA indicates the comprehensive academic performance of a student in a programme.


Letter Grade:

It is an index of the performance of students in a said course. Grades are denoted by letters O, A, B, C, D, E, F and AB.

Transcript or Grade Card or Certificate:

Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.




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ACADEMIC REGULATIONS FOR M. PHARMACY (REGULAR)

Applicable for the students of M. Pharmacy (Regular) from the academic year 2016-17 onwards.

1. Title and duration of the Programme:

- The course shall be called as the Degree course in Master of Pharmacy, abbreviated as M.Pharmacy.
- The minimum period required to complete the programme is 2 years (4 semesters).
- The maximum period which a student can take to complete the programme is 4 years.
- After completion of maximum duration **NO EXTENSION** will be granted, they shall forfeit their seat in M.Pharmacy programme and their admission shall stand cancelled.

2. Admission to M.Pharmacy course:

- A candidate seeking admission into First Year of M.Pharmacy degree course should have passed either B.Pharmacy course from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act 1948. Any other equivalent examination recognized by Department of Technical Education/APSCE/PCI/ AICTE/University and / or the government of Andhrapradesh from time to time.
- Admissions shall be made on the basis of rank obtained by the candidates at the qualifying Entrance Test conducted by PGECET convenor / University or on the basis of any other order of merit as approved by Department of Technical Education/APSCE/PCI/ AICTE/University and / or the government of Andhrapradesh from time to time.

3. Annual intake and allotment of seats :

- The annual intake for each specialization is as follows:

1. Pharmaceutics	- 15
2. Pharmaceutical Analysis	- 15
3. Pharmacology	- 15
4. Industrial Pharmacy	- 15
5. Pharmaceutical Management and Regulatory Affairs	- 15
- Category A will be allotted as per the rules of convener PGECET / University. Category B seats will be admitted basing on the rank/merit.

4. A.I.C.T.E. fellowship :

The candidates who have a qualified GPAT score will be eligible for A.I.C.T.E. fellowships.



5. Registration:

Each student has to compulsorily register for course work at the beginning of each semester as per the schedule mentioned in the academic calendar. It is absolutely necessary for the student to register for courses in time.

6. Minimum instruction days:

The minimum instruction days for each semester shall be 90 days.

7. Structure of the M. Pharmacy programme:

Every branch of the M.Pharmacy programme has a curriculum and course content (syllabi) for the subjects recommended by the board of studies and approved by the academic council.

The programme details are as follows:

- First and second semester programme contains theory, elective, practical subjects, etc., which are as per the scheme of instructions of respective specialization (**Annexure - I**).
- The core subjects in the semester are based on the respective specializations.
- A seminar topic on the research paper or patent on the subjects related to the field of specialization shall be allotted to the students to develop research and analytical skills to analyze various facets of the given research topic.
- The candidate has to publish a research / review article before the submission of project dissertation.
- III and IV semester shall be devoted for the project work in the respective specialization.

8. Examination system & evaluation:

The performance of the students in each semester shall be assessed subject-wise for a maximum of 100 marks each, for theory and practical. All assessments will be done on absolute mark basis. However, for the purpose of reporting the performance of a candidate, letter grades and grade points will be awarded. The performance of a student in each course is assessed with sessional examinations on a continuous basis during the semester called Continuous Internal Evaluation (CIE) and a Semester End Examination (SEE) conducted at the end of the semester. Every student shall be evaluated for semester end examination by theory and practical subjects of three and four hours duration (**As per the Annexure - III**).



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9. Credits:

Credits are awarded for each theory/ practical/ project/ seminar/ comprehensive viva-voce/ journal club/ soft skills/ interview skills. Each theory subject is awarded four credits and each practical subject is awarded three credits. Project work is awarded twelve credits. However for some specific subjects less than four credits may be awarded. The maximum number of credits for all the two years put together is 100.

	Semester	
	Contact Periods/Week	Credits
Theory	04	04
Practical	06	03
Project	24	12
Seminar	--	02
Soft Skills/Interview Skills	--	02
Comprehensive Viva Voce	--	02
Research/Review Article	--	02
Journal Club	--	02

10. Continuous Internal Evaluation (CIE):

10.1 Evaluation of theory subjects:

- For theory subjects the distribution shall be 30 marks for Continuous Internal Evaluation (CIE) and 70 marks for the Semester End-Examination (SEE).
- For theory subjects, during the semester there shall be 2 sessional examinations. Each sessional examination shall consist of section-A (Objective Questions) for 5 marks, section-B (Short Answers) for 15 marks and section-C (Long Answers) for 10 marks with duration of 90 Minutes. **(Model Question Paper : Annexure - I)**
- First assignment should be submitted before the conduct of the first sessional examination, and the second assignment should be submitted before the conduct of the second sessional examination.
- The total marks secured by the student in each sessional examination for 30 marks will be considered and the average of two sessional examinations will be taken as the final marks secured by candidate.



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- It is mandatory for the student to attend both the internal assessment examinations.
- There shall be a pre-final (open book) examination before every semester end examination.

10.2 Evaluation of practical subjects:

- For practical subjects there shall be a continuous internal evaluation during a semester for 30 marks. Out of 30 marks, day-to-day work in the laboratory shall be evaluated for 10 marks and internal practical examination shall be evaluated for 20 marks conducted by the respective laboratory teacher. (**Model Question Paper : Annexure - I**)
- The total marks secured by the student in each sessional examination for 30 marks shall be considered and the average of two sessional examinations shall be taken as the final marks secured by each candidate.

10.3 Evaluation of seminar/ journal club :

Seminar/ journal club shall be evaluated by internal examiner(s) for 50 (2 x 25) marks. There shall be no external examination. The evaluation pattern is given in **Annexure - II**.


11. Semester End Examination (SEE):

- The semester end examination will be conducted for 70 marks, which consists of three parts viz. i). Section -A for 10 marks, ii). Section -B for 20 marks. iii) Section -C for 40 marks. (**Model Question Paper : Annexure - III**)

11.1 Evaluation of theory subjects:

- The evaluation and question paper setting shall be entrusted to external examiners from the panels approved by the respective Boards of Studies.
- Candidates shall be permitted to apply for recounting/revaluation of SEE scripts within the stipulated period by payment of the prescribed fee.




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11.2 Evaluation of practical subjects:

- The semester end examination will be conducted for 70 marks which consists of three parts viz. i). Synopsis / spotters - 10 marks ii). Major experiment - 30 marks iii) Minor experiment - 20 marks iv) Viva-voce - 10 marks. **(Model Question Paper : Annexure - III)**
- The practical semester end examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed by the Principal from the panel of examiners recommended by the chairman, board of studies in respective branches.

11.3 Evaluation of project:

- Project work shall be evaluated for 400 marks, 200 marks for the continuous internal evaluation and 200 marks for the semester end examination.
- The continuous internal evaluation shall be on the basis of two seminars given by each student on the topic of the project. The semester end evaluation of project work shall be conducted at the end of the IV semester by external and internal examiners.
- The dissertation work of the project shall be evaluated on the basis of the performance and presentation skills on parameters like abstract, objectives, general introduction, drug profile, review of literature, plan of work, methodology/experimental work and investigations, interpretation and analysis of data, results and discussion. **(Pattern of dissertation to be submitted is enclosed as Annexure - IV).**

12. Attendance requirements:

- A student is eligible to write the sessional / semester end examinations only if he / she acquires a minimum of 75% of attendance in aggregate of all the subjects.
- Condonation for the shortage of attendance on an aggregate up to 10% (65% and above and below 75%) in each semester may be granted on medical grounds with a documentary evidence approved by the Principal. However in the case of the students, who participated in activities like N.S.S., N.C.C., inter-colligate tournaments, inter-university tournaments and any such other activities involving the representation of the college with prior approval from the Principal, the candidate may be deemed as attended to the college during the period solely for the purpose of the examination.
- A stipulated fee shall be payable towards condonation of shortage of attendance.
- Shortage of attendance below 65% in aggregate shall not be condoned under any circumstances and students are not eligible to write sessional / semester end examinations of that semester. Such students are detained and their registration for examination stands cancelled.



13. Grade points:

- Marks shall be awarded to indicate the performance of each student in each theory subject, practicals, seminars, comprehensive viva-voce, journal club, technical skills, elective course and project etc., based on % of marks obtained in CIE+SEE (continuous internal evaluation + semester end examination, both taken together) and a corresponding letter grade shall be given.
- As a measure of the student's performance, a 10-point absolute grading system shall be followed. The letter grades and corresponding marks secured are given in Table No. 2.

Table No. 2: Grade and Grade Points

Marks Secured	Letter Grade	Grade Point	Performance
90.00 - 100	O	10.0	Out Standing
80.00 - 89.99	A	9.0	Excellent
70.00 - 79.99	B	8.0	Good
60.00 - 69.99	C	7.0	Fair
50.00 - 59.99	D	6.0	Average
40.00 - 49.99	E	5.0	Pass
Less than 40	F	0.0	Fail
Absent	AB	0.0	Fail

- A letter grade does not imply any specific % of marks.
- A student earns Grade Point (GP) in each Subject, on the basis of the Letter grade obtained by him in that subject. Then the corresponding "Credit Points" (CP) are computed by multiplying the grade point with credits for that particular subject.

Credit Points (CP) = Grade Point (GP) x Credits for a Course

- A student passes the subject only when he gets GP \geq 5 (E Grade or above).



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13.1 Grade point average:

Computation of SGPA and CGPA

The credit index can be used further for calculating the Semester Grade Point Average (SGPA) and the Cumulative Grade Point Average (CGPA), both of which being important performance indices of the student. While SGPA is equal to the credit index for a semester divided by the total number of credits registered by the student in that semester, CGPA gives the sum total of credit indices of all the previous semesters divided by the total number of credits registered in all these semesters. Thus, the Grade Point Average (GPA) will be calculated according to the formula:

$$GPA = \frac{\sum C_i G_i}{\sum C_i}$$

Where C_i = number of credits for the subject i ,

G_i = grade points obtained by the student in the subject.

Semester Grade Point Average (SGPA) is awarded to candidates considering all the subjects of the semester. Zero grade points are also included in this computation. SGPA is rounded off to TWO Decimal Places.

SGPA will be computed as follows;

$$\frac{\sum [(Subject\ credits) \times (Grade\ points)] \text{ (for all Subjects passed in that semester)}}{\sum [(Subject\ credits)] \text{ (for all Subjects registered in that semester)}}$$

To arrive at Cumulative Grade Point Average (CGPA), the formula is used considering the student's performance in all the subjects taken in all the semesters completed up to the particular point of time. CGPA is rounded off to TWO Decimal Places.

CGPA will be computed as follows:

$$\frac{\sum [(Subject\ credits) \times (Grade\ points)] \text{ (for all Subjects passed upto that semester)}}{\sum [(Subject\ credits)] \text{ (for all Subjects registered until that semester)}}$$

CGPA is thus computed from the I year first semester onwards, at the end of each Semester, as per the above formula. However, the SGPA of I year I semester itself may be taken as the CGPA.

Illustrative example:

An illustrative example given in the Table No.3 indicates the use of the above two equations in calculating SGPA and CGPA, both of which facilitate the declaration of academic performance of a student, at the end of a semester and at the end of successive semesters respectively. Both of them shall be normally calculated up to the second decimal position, so that the CGPA, in particular, can be made use of in rank ordering the student's performance in a class.



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Table No. 3: Illustration of computation of SGPA and CGPA:

Year and Semester	Subject Code	Credits	Grade	Grade Points	Credit Points
I Year I sem	CM101T	04	O	10	40
I Year I sem	CM102T	04	B	08	32
I Year I sem	CM103T	04	F	00	00
I Year I sem	CM104ET	04	A	09	36
I Year I sem	CM105P	03	F	00	00
I Year I sem	CM106P	03	C	07	21
I Year I sem	CM107	02	E	05	10
I Year I sem	CM108	02	O	10	20
I Year I sem	CM109	02	B	08	16
I Year I sem	CM110	02	A	09	18
Total		30 (23*)			193
SGPA = 193/30 = 8.39			CGPA = 193/30 = 8.39		
I Year II sem	CM111T	04	O	10	40
I Year II sem	CM112T	04	B	08	32
I Year II sem	CM113T	04	O	10	40
I Year II sem	CM114ET	04	A	09	36
I Year II sem	CM115P	03	F	00	00
I Year II sem	CM116P	03	C	07	21
I Year II sem	CM117	02	E	05	10
I Year II sem	CM118	02	O	10	30
I Year II sem	CM119	02	E	05	10
I Year II sem	CM120	02	E	05	05
Total		27 (25*)			204
SGPA = 204/27 = 7.55			CGPA = 404/57 = 7.08		

*Total number of credits excluding those with 'F'; this is particularly important to keep track of the number of credits earned by a student upto any semester.



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14. Earning of credit:

A student shall be considered to have completed a course successfully and earned the credits if he/she secures an acceptable letter grade in the range "O" to "E". Letter grade 'F' in any subject implies failure of the student in that subject and no credits earned.


15. Extra credits:

- Extra credits shall be awarded to a student for achievements in cocurricular/extra curricular activities during the course of his/her study as decided by the institution from time to time.
- Maximum of one credit will be awarded to each student during enter course. However, these credits will not be counted while considering the minimum credits for completing the programme.
- Extra credits shall be awarded based on student's achievements in cocurricular/extra curricular activities at university / national/ international level, participation in NSS special camps, publishing of research/review papers in national/international peer reviewed indexed journals and conferences, industry/R&D/hospital training (minimum of 07 days during vacation period only), active participation in blood donation and social service activities.

16. Passing standards:

- A student shall be declared to have passed the examination in each semester if he obtains not less than 40 % marks in each theory and 40 % in each practical of the semester end examination in addition to 50 % aggregate including theory and practicals of internal and semester end examinations.
- A candidate shall be declared passed if he/she gets a minimum of E-grade in each subject and also minimum SGPA of 6.0 points (D-grade) in any semester.
- A candidate who fails to secure minimum SGPA of 6.0 points (D-grade), he / she has to reappear the paper(s) where he/she secured E-grade.
- After the completion of each semester, a grade card or grade sheet shall be issued to all the registered students of that semester, indicating the letter grades and credits earned, SGPA and CGPA.




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Academic Rules & Regulations (w.e.f. 2016-2017) - M.Pharmacy

17. Award of M.Pharmacy degree:

A student shall be eligible for award of the M.Pharmacy degree if he/she fulfils the following conditions:

- Registered and successfully completed all the components prescribed in the programme of study to which he/she is admitted.
- Obtained CGPA greater than or equal to 6.0.
- Has no dues to the Institute, hostels, libraries, NCC/NSS etc.,
- No disciplinary action is pending against him/her.

18. Award of class:

After a student has satisfied the requirements prescribed for the completion of the programme and is eligible for the award of M. Pharmacy degree, he/she shall be placed in one of the following three classes as given in the Table No. 4.

Table No. 4: CGPA required for award of class

S.No.	Class	CGPA
1	First Class with Distinction	8.00 or more
2	First Class	7.00 or more but less than 7.99
3	Second Class	6.00 or more but less than 6.99

- The marks obtained in Continuous Internal Evaluation (CIE) and Semester end Examination (SEE) will not be shown in the memorandum of marks.
- For the purpose of awarding first class with distinction (CGPA \geq 8.00), the student must obtain the minimum required CGPA within 4 academic years or within 3 academic years in case of lateral entry candidates by clearing all the courses.

19. Consolidated grade card:

A consolidated grade card containing credits & grades obtained by the candidates will be issued after completion of the two years M. Pharmacy programme.

20. Award of rank / medals / prizes :

The rank shall be awarded based on the following:

- Ranks/ medals / prizes shall be awarded on the basis of final CGPA. However, candidates who fail in one or more subjects during the B.Pharmacy programme shall not be eligible for award of such ranks / medals / prizes.



Academic Rules & Regulations (w.e.f. 2016-2017) - M.Pharmacy

- If two students get the same *CGPA*, the tie should be resolved by considering the number of times a student has obtained higher *SGPA*; But, if it is not resolved even at this stage, the number of times a student has obtained higher grades like O, A, B, etc., shall be taken into account in rank ordering of the students in a class.
- The rank will be awarded only to those candidates who complete their degree within four academic years.
- For the purpose of awarding rank, the *CGPA* calculated based on the grades secured at the first attempt only shall be considered.

21. Withholding of results:

If the student has not paid the dues, if any, to the institute or if any indiscipline action is pending against him, the result of the student will be withheld. His/her degree will be withheld in such cases the matter will be referred to the Principal.

22. Transitory regulations:

- Discontinued or detained candidates are eligible for readmission as per the guidelines of university admission procedure.
- Students on transfer shall complete the prescribed courses of the concerned programme not covered earlier, however, he/she should take the remaining programme along with others.

23. Transcripts:

After successful completion of the total programme of study, a transcript containing performance of all academic years will be issued as a final record. Duplicate transcripts will also be issued if required after the payment of requisite fee.

24. Supplementary examinations:

- In addition to the regular final examinations held at the end of each semester, supplementary final examinations will be conducted during the academic year. Candidates taking regular / supplementary examinations as supplementary candidates may have to take more than one semester end examination per day. A student can appear for any number of supplementary examinations till he/she clears all courses which he/she could not clear in the first attempt. However the maximum stipulated period cannot be relaxed under any circumstances.




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- A student eligible to appear in the semester end examination in any subject, but absent at it or failed (thereby failing to secure E-grade or above), may reappear for that subject at the supplementary as and when examination conducted. In such cases, his internal marks (CIE) assessed earlier for that subject will be carried over, and added to the marks to be obtained in the supplementary examinations, for evaluating his performance in that subject.

25. Scribe/Reader/Interpreter:

- The facility of scribe/reader/interpreter shall be allowed for any persons who has physical disability of 40% or more, visually challenged, low vision, orthopedic disability (permanent or temporary) or with disability where the candidate cannot write the exams on his own hands, if desired by the candidate with prior approval from the Principal/Examination authority.
- Scribe/reader/interpreter should be from different discipline and approved by the Principal/Examination authority.

26. Graduation ceremony:

- The college shall have its own annual graduation ceremony for the award of degree to students completing the prescribed academic requirements in each case, in consultation with the university and by following the provisions in the Statute.
- The college shall institute prizes and awards/medals to meritorious students, for being given away annually.

27. Termination from the programme:

The admission of a student to the programme may be terminated and the student asked to leave the Institute in the following circumstances:

- The student fails to satisfy the requirements of the programme within the maximum period stipulated for that programme.
- The student fails to satisfy the norms of discipline/who indulge in ragging.

28. Conduct and discipline:

- Students shall conduct themselves within and outside the premises of the institute in a manner befitting the students of our institution.
- As per the order of Honorable Supreme Court of India, ragging in any form is considered as a criminal offence and is banned. This is monitored by anti-ragging committee and anti-ragging squad constituted by the college. Any form of ragging will be severely dealt with.



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Academic Rules & Regulations (w.e.f. 2016-2017) - M.Pharmacy

- The following acts of omission and / or commission shall constitute gross violation of the code of conduct and are liable to invoke disciplinary measures.
 - Lack of courtesy and decorum, indecent behavior anywhere within or outside the campus.
 - Wilful damage of college / individual property
 - Possession, consumption or distribution of alcoholic drinks or any kind of narcotics or hallucinogenic drugs.
 - Mutilation or unauthorized possession of library books.
 - Watching of forbidden sites.
 - Noisy and unseemly behavior, disturbing studies of fellow students.
 - Hacking of computer systems (such as entering into other person's areas without prior permission, manipulation and / or damage of computer hardware and software or any other cyber-crime etc.)
 - Usage of camera / cell phone in the campus
 - Plagiarism of any nature
- All cases of serious offence, possibly requiring punishment other than reprimand, shall be reported to the Principal.
- The principal shall deal with any academic problem, which is not covered under these rules and regulations. Any emergency modification of regulation, approved by the appropriate authority, shall be reported to the academic council for ratification.

29. Grievance and redressal Committee:

Grievance and redressal Committee constituted by the Principal shall deal with all grievances pertaining to the academic / administrative / disciplinary matters.

30. Amendments:

The regulations hereunder are subject to amendments as may be made by the academic council of the college from time to time. Any or all such amendments will be effective from such date and to such batches of candidates (including those already undergoing the program) as may be decided by the academic council.

31. General:

- Wherever the words "he", "him", "his", occur in the regulations, they include "she", "her", "hers".
- The academic regulation should be read as a whole for the purpose of any interpretation.
- In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the academic council is final.



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



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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/extracurricular 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.



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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.Pharmacy 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



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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





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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





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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
MPC102T	Advanced Organic Chemistry	4	4	4	100
MPC103T	Advanced Medicinal Chemistry	4	4	4	100
MPC104T	Chemistry of Natural Products	4	4	4	100
MPC105P	Pharmaceutical 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./ Week	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



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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



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

Course Code	Course	Credit Hours	Credit Points	Hrs./ Week	Marks
Semester I					
MRA101T	Good Regulatory Practice	4	4	4	100
MRA102T	Documentation and Regulatory Writing	4	4	4	100
MRA103T	Clinical Research Regulations	4	4	4	100
MRA104T	Regulation and Legislation for Drugs & Cosmetics, Medical Devices, Biologicals & Herbals, and Food & Nutraceuticals in India and Intellectual Property Rights	4	4	4	100
MRA105P	Regulatory Affairs Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MRA201T	Regulatory Aspects of Drugs & Cosmetics	4	4	4	100
MRA202T	Regulatory Aspects of Herbal & Biologicals	4	4	4	100
MRA203T	Regulatory Aspects of Medical Devices	4	4	4	100
MRA204T	Regulatory Aspects of Food & Nutraceuticals	4	4	4	100
MRA205P	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					
MPB101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPB102T	Microbial and Cellular Biology	4	4	4	100
MPB103T	Bioprocess Engineering and Technology	4	4	4	100
MPB104T	Advanced Pharmaceutical Biotechnology	4	4	4	100
MPB105P	Pharmaceutical Biotechnology Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPB201T	Proteins and protein Formulation	4	4	4	100
MPB202T	Immunotechnology	4	4	4	100
MPB203T	Bioinformatics and Computer Technology	4	4	4	100
MPB204T	Biological Evaluation of Drug Therapy	4	4	4	100
MPB205P	Pharmaceutical Biotechnology Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650





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

Course Code	Course	Credit Hours	Credit Points	Hrs./ Week	Marks
Semester I					
MPP101T	Clinical Pharmacy Practice	4	4	4	100
MPP102T	Pharmacotherapeutics-I	4	4	4	100
MPP103T	Hospital & Community Pharmacy	4	4	4	100
MPP104T	Clinical Research	4	4	4	100
MPP105P	Pharmacy Practice Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPP201T	Principles of Quality use of Medicines	4	4	4	100
MPP202T	Pharmacotherapeutics II	4	4	4	100
MPP203T	Clinical Pharmacokinetics and Therapeutic Drug Monitoring	4	4	4	100
MPP204T	Pharmacoepidemiology & Pharmacoeconomics	4	4	4	100
MPP205P	Pharmacy Practice Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650





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Table - 10: Course of study for M. Pharm. (Pharmacology)

Course Code	Course	Credit Hours	Credit Points	Hrs./ Week	Marks
Semester I					
MPL101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPL102T	Advanced Pharmacology-I	4	4	4	100
MPL103T	Pharmacological and Toxicological Screening Methods-I	4	4	4	100
MPL104T	Cellular and Molecular Pharmacology	4	4	4	100
MPL105P	Pharmacology Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650
Semester II					
MPL201T	Advanced Pharmacology II	4	4	4	100
MPL202T	Pharmacological and Toxicological Screening Methods	4	4	4	100
MPL203T	Principles of Drug Discovery	4	4	4	100
MPL204T	Experimental Pharmacology Practical - II	4	4	4	100
MPL205P	Pharmacology Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
Total		35	26	35	650






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

Course Code	Course	Credit Hours	Credit Points	Hrs./ Week	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 biotechnology	4	4	4	100
MPG202T	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




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**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 Point	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.Pharmacy 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 sessional exam 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.

11.2. Students should register for two MOOC courses, which shall not be less than three months duation, one in II Semester and the other in III Semester either from the SWAYAM platform (MHRD) or from the University website (list of courses identified by the concerned Department) and to allot 4 credits for each MOOC (2 x 4 = 8 credits) and submit the marks to the Controller of Examinations, ANU through the Head of the Department for incorporating the same in Marks Memo and Consolidated Marks Memo (CML)

11.3. Students be permitted to opt more than one MOOC course II and III Semesters of the M.Pharm. course WITHOUT credits but the particulars of the course(s) completed by such students be printed in the marks lists and CML respectively.




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**Tables - 16 : Schemes for internal assessments and end semester
(Pharmaceutics - MPH)**

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPH101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPH102T	Drug Delivery System	10	15	1 Hr	25	75	3 Hrs	100
MPH103T	Modern Pharmaceutics	10	15	1 Hr	25	75	3 Hrs	100
MPH104T	Regulatory Affairs	10	15	1 Hr	25	75	3 Hrs	100
MPH105P	Pharmaceutics Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPH201T	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	10	15	1 Hr	25	75	3 Hrs	100
MPH202T	Advanced Biopharmaceutics & Pharmacokinetics	10	15	1 Hr	25	75	3 Hrs	100
MPH203T	Computer Aided Drug Delivery System	10	15	1 Hr	25	75	3 Hrs	100
MPH204T	Cosmetic & Cosmeceuticals	10	15	1 Hr	25	75	3 Hrs	100
MPH205P	Pharmaceutics Practical - I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650



**Tables - 17 : Schemes for internal assessments and end semester
(Industrial Pharmacy - MIP)**

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Conti nuous Mode	Sessional Exams		Tot al	Mar ks	Dura tion	
			Mar ks	Dura tion				
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 & Pharmacokine tics	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



**Tables - 18 : Schemes for internal assessments and end semester
(Pharmaceutical Chemistry- MPC)**

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Conti nuous Mode	Sessional Exams		Tot al	Mar ks	Dura tion	
			Mar ks	Dura tion				
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 Chemistry Practical - II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650



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

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Conti nuous Mode	Sessional Exams		Tot al	Mar ks	Dura tion	
			Mar ks	Dura tion				
SEMESTER I								
MPA101T	Modern Pharma ceutical Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPA102T	Advanced Pharma ceutical 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 & Quality Assurance	10	15	1 Hr	25	75	3 Hrs	100
MPA204T	Herbal & Cosmetic Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPA205P	Pharmaceutical 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
(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 & Quality Assurance	10	15	1 Hr	25	75	3 Hrs	100
MQA104T	Product Development & 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
(Pharmaceutical Regulatory Affairs- MRA)**

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MRA101T	Good Pharmaceutical Practices	10	15	1 Hr	25	75	3 Hrs	100
MRA102T	Documentation and Regulatory Writing	10	15	1 Hr	25	75	3 Hrs	100
MRA103T	Clinical Research Regulations	10	15	1 Hr	25	75	3 Hrs	100
MRA104T	Regulations and Legislation for Drugs & Cosmetics Medical Devices Biologicals and Herbals, and Food and Intellectual Property Rights	10	15	1 Hr	25	75	3 Hrs	100
MRA105P	Pharmaceutical Regulatory Affairs Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MRA201T	Regulatory Aspects of Drugs and Cosmetics	10	15	1 Hr	25	75	3 Hrs	100
MRA202T	Regulatory Aspects of Herbal and Biologicals	10	15	1 Hr	25	75	3 Hrs	100
MRA203T	Regulatory Aspects of Medical Devices	10	15	1 Hr	25	75	3 Hrs	100
MRA204T	Regulatory Aspects Food and Nutraceuticals	10	15	1 Hr	25	75	3 Hrs	100
MRA205P	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
(Pharmaceutical Biotechnology - MPB)**

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPB101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPB102T	Microbial and Cellular Biology	10	15	1 Hr	25	75	3 Hrs	100
MPB103T	Bioprocess Engineering and Technology	10	15	1 Hr	25	75	3 Hrs	100
MPB104T	Advanced Pharmaceutical Biotechnology	10	15	1 Hr	25	75	3 Hrs	100
MPB105P	Pharmaceutical Biotechnology Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPB201T	Proteins & Protein Formulation	10	15	1 Hr	25	75	3 Hrs	100
MPB202T	Immunotechnology	10	15	1 Hr	25	75	3 Hrs	100
MPB203T	Bioinformatics and Computer Technology	10	15	1 Hr	25	75	3 Hrs	100
MPB204T	Biological Evaluation of Drug Therapy	10	15	1 Hr	25	75	3 Hrs	100
MPB205P	Pharmaceutical Biotechnology Practical - II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650



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

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Conti nuous Mode	Sessional Exams		Tot al	Mar ks	Dura tion	
			Mar ks	Dura tion				
SEMESTER I								
MPP101T	Clinical Pharmacy Practice	10	15	1 Hr	25	75	3 Hrs	100
MPP102T	Pharmaco-therapeutics - I	10	15	1 Hr	25	75	3 Hrs	100
MPP103T	Hospital Community Pharmacy	10	15	1 Hr	25	75	3 Hrs	100
MPP104T	Clinical Research	10	15	1 Hr	25	75	3 Hrs	100
MPP105P	Pharmacy Practice Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPP201T	Principles of Quality use of Medicines	10	15	1 Hr	25	75	3 Hrs	100
MPP202T	Pharmacotherapeutics - II	10	15	1 Hr	25	75	3 Hrs	100
MPP203T	Clinical Pharmacokinetics and Therapeutic Drug Monitoring	10	15	1 Hr	25	75	3 Hrs	100
MPP204T	Pharmacoepidemiology & Pharmacoeconomics	10	15	1 Hr	25	75	3 Hrs	100
MPP205P	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 (Pharmacology- MPL)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPL101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPL102T	Advanced Pharmacology - I	10	15	1 Hr	25	75	3 Hrs	100
MPL103T	Pharmacological and Toxicological Screening Methods - I	10	15	1 Hr	25	75	3 Hrs	100
MPL104T	Cellular and Molecular Pharmacology	10	15	1 Hr	25	75	3 Hrs	100
MPL105P	Experimental Pharmacology - I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPL201T	Advanced Pharmacology - II	10	15	1 Hr	25	75	3 Hrs	100
MPL202T	Pharmacological and Toxicological Screening Methods - II	10	15	1 Hr	25	75	3 Hrs	100
MPL203T	Principles of Drug Discovery	10	15	1 Hr	25	75	3 Hrs	100
MPL204T	Clinical research & pharmacovigilance	10	15	1 Hr	25	75	3 Hrs	100
MPL205P	Experimental Pharmacology - II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650




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

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER I								
MPG101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPG102T	Advanced Pharmacognosy - I	10	15	1 Hr	25	75	3 Hrs	100
MPG103T	Phytochemistry	10	15	1 Hr	25	75	3 Hrs	100
MPG104T	Industrial Pharmacognostical Technology	10	15	1 Hr	25	75	3 Hrs	100
MPG105P	Pharmacognosy Practical I	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650
SEMESTER II								
MPG201T	Medicinal Plant biotechnology	10	15	1 Hr	25	75	3 Hrs	100
MPG202T	Advanced Pharmacognosy - II	10	15	1 Hr	25	75	3 Hrs	100
MPG203T	Indian system of Medicine	10	15	1 Hr	25	75	3 Hrs	100
MPG204T	Herbal Cosmetics	10	15	1 Hr	25	75	3 Hrs	100
MPG205P	Pharmacognosy Practical - II	20	30	6 Hrs	50	100	6 Hrs	150
-	Seminar /Assignment	-	-	-	-	-	-	100
Total								650




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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)	-	-	-	75	-	-	75
-	Research work*	-	-	-	-	350	1 Hr	350
Total								525
SEMESTER IV								
-	Journal club	-	-	-	25	-	-	25
-	Discussion/ Presentation (Proposal Presentation)	-	-	-	75	-	-	75
-	Research work and Collogium -	-	-	-	400	1 Hr	-	400
Total								500



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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 - 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.





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Table - 30: 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 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:

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

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:

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

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 on subsequent examination(s) the CGP



shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

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

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 to IV and submit a report. 4 copies of the project report shall be submitted (typed & bound copy not less than 75 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). The projects shall be evaluated as per the criteria given below.

Evaluation of Dissertation Book:

Objective(s) of the work done	50 Marks
Methodology adopted	150 Marks
Results and Discussions	250 Marks
Conclusions and Outcomes	50 Marks
Total	500 Marks

Presentation of work	100 Marks
Communication skills	50 Marks
Question and answer skills	100 Marks
Total	250 Marks



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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 I Retotaling of answer papers:

There is no provision for revaluation of the answer papers in any examination. However, the candidates can apply for retotaling by paying prescribed fee.

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.




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Elective - M. Pharmacy

Academic Rules & Regulations (w.e.f. 2016-2017) - M.Pharmacy

SCHEME OF EXAMINATIONS (INDUSTRIAL PHARMACY)

I/II M.PHARMACY SEMESTER-I

Subject Code	Theory / Practical	Continuous Internal Evaluation	Sem-ester End	Total
CM101T	Modern Analytical Techniques (Common Paper for all specializations) (THEORY)	30	70	100
CM401T	Advanced Pharmaceutical Technology (THEORY)	30	70	100
CM402T	Advanced Industrial Pharmacy (THEORY)	30	70	100
CM104ET	Elective - I	30	70	100
CM105P	Modern Analytical Techniques (Common Paper for all Specializations) (PRACTICAL)	30	70	100
CM403P	Advanced Pharmaceutical Technology(PRACTICAL)	30	70	100
CM404	Seminars (2 x 25)	50	--	50
CM405	Comprehensive Viva	--	50	50
CM406	Journal Club (2 x 25)	50	--	50
CM407	Soft Skills	50	--	50
	TOTAL			800
	I/II M.PHARMACY SEMESTER-II			
CM111T	Intellectual Property Rights and Drug Regulatory Affairs (Common Paper for all specializations) (THEORY)	30	70	100
CM408T	Pharmaceutical Biotechnology (THEORY)	30	70	100
CM409T	Advances in drug delivery systems (THEORY)	30	70	100
CM114ET	Elective - II	30	70	100
CM410P	Pharmaceutical Biotechnology (PRACTICAL)	30	70	100
CM411P	Advances in drug delivery systems (PRACTICAL)	30	70	100
CM412	Seminars (2 x 25)	50	--	50
CM413	Comprehensive Viva	--	50	50
CM414	Journal Club (2 x 25)	50	--	50
CM415	Interview Skills	50	--	50
	TOTAL			800



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Academic Rules & Regulations (w.e.f. 2016-2017) - M.Pharmacy

SCHEME OF EXAMINATIONS (PHARMACEUTICS)

I/II M.PHARMACY SEMESTER- I

Subject Code	Theory / Practical	Continuous Internal Evaluation	Sem-ester End	Total
CM101T	Modern Analytical Techniques (Common Paper for all specializations) (THEORY)	30	70	100
CM102T	Advanced Pharmaceutical Technology (THEORY)	30	70	100
CM103T	Industrial Pharmacy (THEORY)	30	70	100
CM104ET	Elective - I	30	70	100
CM105P	Modern Analytical Techniques (Common Paper for all Specializations) (PRACTICAL)	30	70	100
CM106P	Advanced Pharmaceutical Technology (PRACTICAL)	30	70	100
CM107	Seminars (2 x 25)	50	--	50
CM108	Comprehensive Viva	--	50	50
CM109	Journal Club (2 x 25)	50	--	50
CM110	Sports / Cultural	50	--	50
	TOTAL			800
I/II M.PHARMACY SEMESTER- II				
CM111T	Intellectual Property Rights and Drug Regulatory Affairs (Common Paper for all specializations) (THEORY)	30	70	100
CM112T	Advances in drug Delivery systems (THEORY)	30	70	100
CM113T	Advanced Biopharmaceutics and Pharmacokinetics (THEORY)	30	70	100
CM114ET	Elective - II	30	70	100
CM115P	Advances in drug delivery systems (PRACTICAL)	30	70	100
CM116P	Advanced Biopharmaceutics and Pharmacokinetics (PRACTICAL)	30	70	100
CM117	Seminars (2 x 25)	50	--	50
CM118	Comprehensive Viva	--	50	50
CM119	Journal Club (2 x 25)	50	--	50
CM120	Interview Skills	50	--	50
	TOTAL			800



Academic Rules & Regulations (w.e.f. 2016-2017) - M.Pharmacy

SCHEME OF EXAMINATIONS (PHARMACEUTICAL ANALYSIS)

I/II M.PHARMACY SEMESTER-I

Subject Code	Theory / Practical	Continuous Internal Evaluation	Sem-ester End	Total
CM101T	Modern Analytical Techniques (Common Paper for all specializations) (THEORY)	30	70	100
CM201T	Quality Control and Quality Assurance (THEORY)	30	70	100
CM202T	Biological Standardization (THEORY)	30	70	100
CM104ET	Elective - I	30	70	100
CM105P	Modern Analytical Techniques (Common Paper for all Specializations) (PRACTICAL)	30	70	100
CM203P	Quality Control and Quality Assurance (PRACTICAL)	30	70	100
CM204	Seminars (2 x 25)	50	--	50
CM205	Comprehensive Viva	--	50	50
CM206	Journal Club (2 x 25)	50	--	50
CM207	Soft Skills	50	--	50
	TOTAL			800
I/II M.PHARMACY SEMESTER-II				
CM111T	Intellectual Property Rights and Drug Regulatory Affairs (Common Paper for all specializations) (THEORY)	30	70	100
CM208T	Advanced Pharmaceutical Analysis (THEORY)	30	70	100
CM209T	Validation & Documentation (THEORY)	30	70	100
CM114ET	Elective - II	30	70	100
CM210P	Advanced Pharmaceutical Analysis (PRACTICAL)	30	70	100
CM211P	Validation & Documentation (PRACTICAL)	30	70	100
CM212	Seminars (2 x 25)	50	--	50
CM213	Comprehensive Viva	--	50	50
CM214	Journal Club (2 x 25)	50	--	50
CM215	Interview Skills	50	--	50
	TOTAL			800



SCHEME OF EXAMINATIONS (PHARMACOLOGY)

I/II M.PHARMACY SEMESTER-I

Subject Code	Theory / Practical	Continuous Internal Evaluation	Sem-ester End	Total
CM101T	Modern Analytical Techniques (Common Paper for all specializations) (THEORY)	30	70	100
CM301T	Advanced Pharmacology-I (THEORY)	30	70	100
CM302T	Clinical Pharmacy & Therapeutics (THEORY)	30	70	100
CM104ET	Elective - I	30	70	100
CM105P	Modern Analytical Techniques (Common Paper for all Specializations) (PRACTICAL)	30	70	100
CM303P	Advanced Pharmacology-I (PRACTICAL)	30	70	100
CM304	Seminars (2 x 25)	50	--	50
CM305	Comprehensive Viva	--	50	50
CM306	Journal Club (2 x 25)	50	--	50
CM307	Soft Skills	50	--	50
	TOTAL			800
I/II M.PHARMACY SEMESTER-II				
CM111T	Intellectual Property Rights and Drug Regulatory Affairs (Common Paper for all specializations) (THEORY)	30	70	100
CM308T	Advanced Pharmacology-II (THEORY)	30	70	100
CM309T	Screening methods in Pharmacology (THEORY)	30	70	100
CM114ET	Elective - II	30	70	100
CM310P	Advanced Pharmacology-II (PRACTICAL)	30	70	100
CM311P	Screening methods in Pharmacology (PRACTICAL)	30	70	100
CM312	Seminars (2 x 25)	50	--	50
CM313	Comprehensive Viva	--	50	50
CM314	Journal Club (2 x 25)	50	--	50
CM315	Interview Skills	50	--	50
	TOTAL			800



Academic Rules & Regulations (w.e.f. 2016-2017) - M.Pharmacy
SCHEME OF EXAMINATIONS (PHARMACEUTICAL MANAGEMENT & REGULATORY AFFAIRS)
VII M. PHARMACY SEMESTER - I

Subject Code	Theory / Practical	Continuous Internal Evaluation	Sem-ester End	Total
CM101T	Modern Analytical Techniques (Common Paper for all specializations) (THEORY)	30	70	100
CM501T	Pharmaceutical Production & Management (THEORY)	30	70	100
CM502T	Pharmaceutical Quality Assurance (THEORY)	30	70	100
CM104ET	Elective - I	30	70	100
CM105P	Modern Analytical Techniques (Common Paper for all Specializations) (PRACTICAL)	30	70	100
CM503P	Pharmaceutical Quality Assurance (PRACTICAL)	30	70	100
CM504	Seminars (2 x 25)	50	--	50
CM505	Comprehensive Viva	--	50	50
CM506	Journal Club (2 x 25)	50	--	50
CM507	Soft Skills	50	--	50
	TOTAL			800
VIII M. PHARMACY SEMESTER - II				
CM111T	Intellectual Property Rights and Drug Regulatory Affairs (Common Paper for all specializations) (THEORY)	30	70	100
CM508T	International regulatory Affairs (THEORY)	30	70	100
CM509T	Validation & documentation (THEORY)	30	70	100
CM114ET	Elective - II	30	70	100
CM510P	International Regulatory Affairs (PRACTICAL)	30	70	100
CM511P	Validation & Documentation (PRACTICAL)	30	70	100
CM512	Seminars (2 x 25)	50	--	50
CM513	Comprehensive Viva	--	50	50
CM514	Journal Club (2 x 25)	50	--	50
CM515	Interview Skills	50	--	50
	TOTAL			800



IV/IV B.PHARMACY 7th SEMESTER

Course Code	Name of the course	No. of hrs	Tutorial	Credit points
BP701T ✓	Instrumental Methods of Analysis (Theory)	3	1	4
BP702T ✓	Industrial Pharmacy II (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 ✓	Practical School*	12	-	6
TOTAL		28	5	24

IV/IV B.PHARMACY 8th SEMESTER

Course Code	Name of the course	No. of hrs	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



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