



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Act No. 30 of 2008)
Kukatpally, Hyderabad, Telangana (India),

ACADEMIC REGULATIONS OF B.PHARM. (REGULAR/FULL TIME) STUDENTS
WITH EFFECT FROM THE ACADEMIC YEAR 2022-23 (R-22)

1.0 Under-Graduate Degree Programme in Pharmacy

- 1.1 JNTUHI offers a 4-year (8 semesters) **Bachelor of Pharmacy (B.Pharm.)** degree programme, under Choice Based Credit System (CBCS) at its affiliated colleges with effect from the academic year 2022-23.

2.0 Eligibility for admission

- 2.1 Admission to the under graduate programme shall be made either on the basis of the merit rank obtained by the qualified candidate in entrance test conducted by the Telangana State Government (EAMCET) or the University or on the basis of any other order of merit approved by the University, subject to reservations as prescribed by the government from time to time.

- 2.2 The medium of instructions for the entire under graduate programme in Pharmacy will be **English only**.

3.0 B.Pharm. Programme structure

- 3.1 A student after securing admission shall pursue the under graduate programme in B.Pharm. in a minimum period of four academic years (8 semesters), and a maximum period of eight academic years (16 semesters) starting from the date of commencement of first year first semester, failing which student shall forfeit seat in B.Pharm course.

A student shall register for all subjects for covering 209 credits and each student shall secure 209 credits (with CGPA ≥ 6) required for the completion of the under graduate programme and award of the B.Pharm. degree.

- 3.2 UGC/ PCI specified definitions/ descriptions are adopted appropriately for various terms and abbreviations used in these academic regulations/ norms, which are listed below.

3.2.1 Semester scheme

Each under graduate programme is of 4 academic years (8 semesters) with the academic year being divided into two semesters of 23 weeks (≥ 100 instructional days) each, each semester shall have - 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)', Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) as indicated by UGC and curriculum/ course structure as suggested by PCI are followed.

3.2.2 Credit courses

All subjects/ courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/ course in an L: T: P: C (lecture periods: tutorial periods: practical periods: credits) structure based on the following general pattern,

- One credit for one hour/ week/ semester for theory/ lecture (L) courses.

- One credit for two hours/ week/ semester for laboratory/ practical (P) courses or tutorials (T).

Courses like Environmental Sciences, Human Values and Professional Ethics, Gender Sensitization Laboratory and student activities like NCC/NSO and NSS are identified as mandatory courses. These courses will not carry any credits.

3.2.3 Subject Course Classification

All subjects/ courses offered for the under graduate programme in Pharmacy (B.Pharm. degree programmes) are broadly classified as follows. The university has followed almost all the guidelines issued by PCI/UGC.

S. No.	Broad Course Classification	Course Group/ Category	Course Description
1	Foundation Courses (FnC)	BS – Basic Sciences	Includes mathematics, physics and chemistry subjects.
2		PS - Pharmaceutical Sciences	Includes fundamental Pharmacy Subjects.
3		HS – Humanities and Social sciences	Includes subjects related to humanities, social sciences and management.
4	Core Courses (CoC)	PC – Professional Core	Includes core subjects related to the parent discipline.
5	Elective Courses (EC)	OE – Open Electives	Includes elective subjects related to inter-disciplinary areas of Pharmacy or other than Pharmacy
6	Core Courses	Project Work	B.Pharm. project or UG project or UG major project
7		Seminar	Seminar/ Colloquium based on core contents related to parent discipline.
10	Minor courses	-	1 or 2 Credit courses (subset of HS)
11	Mandatory Courses (MC)	-	Mandatory courses (non-credit)

4.0 Course registration

- 4.1 A 'faculty advisor or counselor' shall be assigned to a group of 15 students, who will advise student about the under graduate programme, its course structure and curriculum, choice/option for subjects/ courses, based on their competence, progress, pre-requisites and interest.
- 4.2 The academic section of the college invites 'registration forms' from students before the beginning of the semester through 'on-line registration', ensuring 'date and time stamping'. The on-line registration requests for any 'current semester' shall be **completed before the commencement of semester end examinations of the 'preceding semester'**.
- 4.3 A student can apply for on-line registration, only after obtaining the 'written approval' from faculty advisor/counselor, which should be submitted to the college academic section through the Head of the Department. A copy of it shall be retained with Head of the Department, faculty advisor/ counselor and the student.
- 4.5 If the student submits ambiguous choices or multiple options or erroneous entries during on-line registration for the subject(s) / course(s) under a given/ specified course group/ category as listed in

the course structure, only the first mentioned subject/ course in that category will be taken into consideration.

- 4.6 Subject/ course options exercised through on-line registration are final and cannot be changed or inter-changed; further, alternate choices also will not be considered. However, if the subject/ course that has already been listed for registration by the Head of the Department in a semester could not be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to have alternate choice either for a new subject (subject to offering of such a subject), or for another existing subject (subject to availability of seats). Such alternate arrangements will be made by the Head of the Department, with due notification and time-framed schedule, within the first week after the commencement of class-work for that semester.

- 4.7 **Open Electives:** Students have to choose one open elective (OE-I) in III year I semester, one (OE-II) in III year II semester, one (OE-III) in IV year I semester and one (OE-IV) in IV year II semester from the list of Open Electives.

5.0 Subjects/ courses to be offered

- 5.1 A typical section (or class) strength for each semester shall be 80.

- 5.2 A subject/ course may be offered to the students, only if a minimum of 20 students (1/3 of the section strength) opt for it. The maximum strength of a section is limited to 80 (50 + 1/3 of the section strength).

- 5.3 If more entries for registration of a subject come into picture, then the Head of Department shall decide, whether or not to offer such a subject/ course for two (or multiple) sections.

6.0 Attendance requirements:

- 6.1 Attendance in all Courses (Lectures/Laboratories/Seminar/Project Work) is compulsory. The minimum required attendance in aggregate of all the subjects/ courses including the attendance of mid-term examination/ Laboratory etc. is 80%. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than 80% (excluding attendance in mandatory courses like Environmental Sciences, Human Values and Professional Ethics, Gender Sensitization Laboratory, NCC/NSO, NSS and Industrial Training) for that semester.

- 6.2 Condoning of shortage of attendance (between 70% and 80%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each semester shall be granted by the College Academic Committee on genuine and valid grounds, based on the student's representation with supporting evidence.

- 6.3 A stipulated fee shall be payable towards condoning of shortage of attendance.

- 6.4 Shortage of attendance below 70% in aggregate shall in no case be condoned.

- 6.5 Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examinations of that semester. They get detained and their registration for that semester shall stand cancelled. They will not be promoted to the next semester. They may seek re-registration for all those subjects registered in that semester in which student was detained, by seeking re-admission into that semester as and when offered; in case if there are any open electives, the same may also be re-registered if offered. However, if those electives are not offered in later semesters, then alternate electives may be chosen from the same set of elective subjects offered under that category.

- 6.6 A student fulfilling the attendance requirement in the present semester shall not be eligible for readmission into the same class.

7.0 Academic requirements

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in item no. 6.

- 7.1 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course, if student secures not less than 40% marks (30 out of 75 marks) in the semester end examination, and a minimum of 50% of marks in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of letter grades, this implies securing 'D' grade or above in that subject/ course. For practicals/laboratory courses, a student should secure not less than 50% of marks in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of letter grades, this implies securing 'D' grade or above.
- 7.2 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to Practice School (or) Industrial Training if the student secures not less than 50% marks (i.e. 50 out of 100 allotted marks) in each of them. The student is deemed to have failed, if he (i) does not submit a report on Practice School (or) Industrial Training, (ii) does not make a presentation of the same before the evaluation committee as per schedule, or (iii) secures less than 50% marks in Practice School (or) Industrial Training evaluations. A student may reappear once for each of the above evaluations, when they are scheduled again; if the student fails in such 'one reappearance' evaluation also, the student has to reappear for the same in the next subsequent semester, as and when it is scheduled.

7.3 Promotion Rules

S. No.	Promotion	Conditions to be fulfilled
1	First year to second year	Regular course of study of first year.
2	Second year to third year	(i) Regular course of study of second year. (ii) Must have passed all the subjects/ courses up to I Year II Semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3	Third year to fourth year	(i) Regular course of study of third year. (ii) Must have passed all the subjects/ courses up to II Year II Semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.

- 7.3 A student shall register for all subjects covering 209 credits as specified and listed in the course structure, fulfills all the attendance and academic requirements for 209 credits, 'earn all 209 credits' by securing SGPA ≥ 6.0 (in each semester) and CGPA (at the end of each successive semester) ≥ 6.0 to successfully complete the under graduate programme.
- 7.4 After securing the necessary 209 credits as specified for the successful completion of the entire under graduate programme, the student shall be eligible to get his CGPA and shall be indicated in the grade card of IV year II semester. However, the performance of student in the earlier individual semesters, with the corresponding SGPA and CGPA for which grade cards have already been given will not be altered.

- 7.5 If a student registers for some more 'extra subjects' other than those listed subjects totaling to 209 credits as specified in the course structure, the performances in those 'extra subjects' (although evaluated and graded using the same procedure as that of the required 209 credits) will not be considered while calculating the SGPA and CGPA. For such 'extra subjects' registered, % of marks and letter grade alone will be indicated in the grade card as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations 6 and 7.1 – 7.4 above.
- 7.6 A student eligible to appear in the end semester examination for any subject/ course, but absent from it or failed (thereby failing to secure 'D' grade or above) may reappear for that subject/ course in the supplementary examination as and when conducted. In such cases, CIE assessed earlier for that subject/ course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.
- 7.7 A student detained in a semester due to shortage of attendance, may be re-admitted when the same semester is offered in the next academic year for fulfillment of academic requirements. The academic regulations under which student has been readmitted shall be applicable. However, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which student has been detained.
- 7.8 A student detained due to unfulfillment of promotion rules, shall be promoted to the next academic year only after fulfilling the promotion rules. The academic regulations under which student has been readmitted shall be applicable to him.
- Note: (1) The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum 'D' grade in all the subjects.
 (2) CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters.

8.0 Evaluation - Distribution and Weightage of marks

- 8.1 The performance of a student in every theory subject/course will be evaluated for 100 marks, with 25 marks allotted for CIE (Continuous Internal Evaluation) and 75 marks for SEE (Semester End-Examination).
- 8.2 In CIE, for theory subjects, during a semester, there shall be two mid-term examinations. Each Mid-Term examination consists of two parts i) **Part – A** for 10 marks, ii) **Part – B** for 10 marks with a total duration of 2 hours as follows:
1. Mid Term Examination for 20 marks:
 - a. Part - A: 10 Multiple Choice/ Objective Questions paper for 10 marks,
 - b. Part - B: Descriptive paper for 10 marks. Long Answer Questions for 5 marks (answer 1 out of 2), Short Answer Questions for 5 marks (answer 2 out of 3, each carries 2.5 marks).

While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus.

Five (5) marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first mid-term examination, and the second assignment should be submitted before the conduct of the second mid-term examination. The average of the two assignments shall be taken as the final marks for assignment (for 5 marks).

The average of marks secured in the Two Mid-term examinations, along with the average marks secured in the two assignments will be considered as the final marks secured by a student in the CIE.

8.3 The details of the end semester question paper pattern are as follows,

- The end semester examinations will be conducted for 75 marks consisting of two parts viz. i) **Part- A** for 25 marks, ii) **Part - B** for 50 marks.
- Part-A is compulsory question which consists of fifteen sub-questions. The first ten sub-questions are of Objective type/ Multiple Choice Questions, 2 from each unit and carry 1 mark each. The next five sub-questions are Short Answer Questions one from each unit and carry 3 marks each.
- Part-B consists of five Long Answer Questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an "either" "or" choice, which means that there will be two questions from each unit and the student should answer either of the two questions.

8.3 For practical subjects there shall be a Continuous Internal Evaluation (CIE) during the semester for 15 marks and 35 marks for semester end examination. Out of the 15 marks for internal evaluation:

1. A write-up on day-to-day experiment in the laboratory (In terms of aim, components/procedure, expected outcome) which shall be evaluated for 5 marks
2. 5 marks for viva-voce in the course concerned.
3. Internal practical examination conducted by the laboratory teacher concerned shall be evaluated for 5 marks.

The Semester End Examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the cluster/other colleges which will be decided by the examination branch of the University.

In the Semester End Examination held for 3 hours, total 35 marks are divided and allocated as shown below:

1. 05 marks for Synopsis
2. 25 for experiment
3. 05 marks for viva-voce on concerned laboratory course

A student has to secure 25 marks (i.e. 50% out of the 50 marks) allotted for CIE and SEE taken together.

8.4 There shall be an Industrial Training in IV year I semester. For the Industrial Training, the student 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 IV year I semester and before the commencement of IV year II semester, the student shall submit satisfactory report of the work and certificate duly signed by the authority of training organization to the head of the institute.

8.5 **Practice School:** In the IV year I semester, every candidate shall undergo a 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 departmental 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). The report shall be submitted to the departmental committee consisting of Head of the Institution, Head of the Department and a senior faculty member. The practice school report shall be evaluated for 100 marks and grade point shall be awarded.

- 8.6 All the students shall undertake a UG major 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 (Internal Evaluation):

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 (External Evaluation):

Presentation of work	- 25 Marks
Communication skills	- 20 Marks
Viva-Voce	- 30 Marks
Total	- 75 Marks

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. A student has to secure 75 marks (i.e. 50% of the allotted 150 marks) to be declared successful in the project.

- 8.7 For mandatory courses Environmental Science, Human Values and Professional Ethics, Gender Sensitization Lab and Industrial Training a student has to secure 50 marks out of 100 marks (i.e. 50% of the marks allotted) in the continuous internal evaluation for passing the subject/course.
- 8.8 For mandatory courses NCC/NSO and NSS, a 'satisfactory participation certificate' shall be issued to the student from the authorities concerned, only after securing $\geq 80\%$ attendance in such a course.
- 8.9 No marks or letter grade shall be allotted for all mandatory/non-credit courses.
- 9.0 **Grading procedure**
- 9.1 Marks will be awarded to indicate the performance of student in each theory subject, laboratory / practicals and UG major project. Based on the percentage of marks obtained (Continuous Internal Evaluation plus Semester End Examination, both taken together) as specified in Item 8 above, a corresponding letter grade shall be given.
- 9.2 As a measure of the performance of student, a 10-point absolute grading system using the following letter grades (as per UGC/ PCI guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A (Excellent)	9
70 and less than 80%	B (Good)	8
60 and less than 70%	C (Fair)	7

50 and less than 60%	D (Average)	6
Below 50%	F (FAIL)	0
Absent	Ab	0

- 9.3 A student obtaining 'F' grade in any subject shall be deemed to have 'failed' and is required to reappear as a 'supplementary student' in the semester end examination, as and when offered. In such cases, internal marks in those subjects will remain the same as those obtained earlier.
- 9.4 A student who has not appeared for examination in any subject, 'Ab' grade will be allocated in that subject, and student shall be considered 'failed'. Student will be required to reappear as a 'supplementary student' in the semester end examination, as and when offered.
- 9.5 A letter grade does not indicate any specific percentage of marks secured by the student, but it indicates only the range of percentage of marks.
- 9.6 A student earns grade point (GP) in each subject/ course, on the basis of the letter grade secured in that subject/ course. The corresponding 'credit points' (CP) are computed by multiplying the grade point with credits for that particular subject/ course.

Credit points (CP) = grade point (GP) x credits For a course

- 9.7 The student passes the subject/ course only when $GP \geq 6$ ('D' grade or above)
- 9.8 The semester grade point average (SGPA) is calculated by dividing the sum of credit points ($\sum CP$) secured from all subjects/ courses registered in a semester, by the total number of credits registered during that semester. SGPA is rounded off to two decimal places. SGPA is thus computed as

$$SGPA = \{ \sum_{i=1}^N C_i G_i \} / \{ \sum_{i=1}^N C_i \} \dots \text{For each semester,}$$

where 'i' is the subject indicator index (takes into account all subjects in a semester), 'N' is the no. of subjects 'registered' for the semester (as specifically required and listed under the course structure of the parent department), C_i is the no. of credits allotted to the i^{th} subject, and G_i represents the grade points (GP) corresponding to the letter grade awarded for that i^{th} subject.

- 9.9 The cumulative grade point average (CGPA) is a measure of the overall cumulative performance of a student in all semesters considered for registration. The CGPA is the ratio of the total credit points secured by a student in all registered courses in all semesters, and the total number of credits registered in all the semesters. CGPA is rounded off to two decimal places. CGPA is thus computed from the 1st year 1st semester onwards at the end of each semester as per the formula

$$CGPA = \{ \sum_{j=1}^M C_j G_j \} / \{ \sum_{j=1}^M C_j \} \dots \text{for all } S \text{ semesters registered}$$

(i.e., up to and inclusive of S semesters, $S \geq 2$),

where 'M' is the total no. of subjects the student has 'registered' i.e., from the 1st semester onwards up to and inclusive of the 8th semester, 'j' is the subject indicator index (takes into account all subjects from 1 to 8 semesters), C_j is the no. of credits allotted to the j^{th} subject, and G_j represents the grade points (GP) corresponding to the letter grade awarded for that j^{th} subject. After registration and completion of first year first semester, the SGPA of that semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
Course 1	4	A	9	$4 \times 9 = 36$
Course 2	4	O	10	$4 \times 10 = 40$

Course 3	4	C	7	$4 \times 7 = 28$
Course 4	3	B	8	$3 \times 8 = 24$
Course 5	3	A	10	$3 \times 10 = 30$
Course 6	3	C	7	$3 \times 7 = 21$
	Total Credits = 21			Total Credit Points = 179

$$SGPA = 179/21 = 8.52$$

Illustration of calculation of CGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
I Year I Semester				
Course 1	4	A	9	$4 \times 9 = 36$
Course 2	4	A	9	$4 \times 9 = 36$
Course 3	4	B	8	$4 \times 8 = 32$
Course 4	3	O	10	$3 \times 10 = 30$
Course 5	3	B	8	$3 \times 8 = 24$
Course 6	3	D	6	$3 \times 6 = 18$
I Year II Semester				
Course 7	4	B	8	$4 \times 8 = 32$
Course 8	4	O	10	$4 \times 10 = 40$
Course 9	4	A	9	$4 \times 9 = 36$
Course 10	3	D	6	$3 \times 6 = 18$
Course 11	3	C	7	$3 \times 7 = 21$
Course 12	3	A	9	$3 \times 9 = 27$
	Total Credits = 42			Total Credit Points = 350

$$CGPA = 350/42 = 8.33$$

9.10 For merit ranking or comparison purposes or any other listing, only the 'rounded off' values of the CGPAs will be used.

9.11 For calculations listed in regulations 9.6 to 9.9, performance in failed subjects/ courses (securing 'F' grade) will also be taken into account, and the credits of such subjects/ courses will also be included in the multiplications and summations. After passing the failed subject(s) newly secured letter grades will be taken into account for calculation of SGPA and CGPA. However, mandatory courses will not be taken into consideration.

10.0 Passing standards

10.1 A student shall be declared successful or 'passed' in a semester, if student secures a GP ≥ 6 ('D' grade or above) in every subject/course in that semester (i.e. when student gets an SGPA ≥ 6.00 at the end of that particular semester); and a student shall be declared successful or 'passed' in the entire under graduate programme, only when gets a CGPA ≥ 6.00 for the award of the degree as required.

10.2 After the completion of each semester, a grade card or grade sheet (or transcript) shall be issued to all the registered students of that semester, indicating the letter grades and credits earned. It will

show the details of the courses registered (course code, title, no. of credits, and grade earned etc.), credits earned, SGPA, and CGPA.

11.0 Declaration of results

11.1 Computation of SGPA and CGPA are done using the procedure listed in 9.6 to 9.9.

11.2 For final percentage of marks equivalent to the computed final CGPA, the following formula may be used.

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

12.0 Award of degree

12.1 A student who registers for all the specified subjects/ courses as listed in the course structure and secures the required number of 209 credits (with CGPA ≥ 6.0), within 8 academic years from the date of commencement of the first academic year, shall be declared to have 'qualified' for the award of the B.Pharm. degree.

12.2 A student who qualifies for the award of the degree as listed in item 12.1 shall be placed in the following classes.

12.3 Students with final CGPA (at the end of the under graduate programme) ≥ 7.50 , and fulfilling the following conditions -

- (i) Should have passed all the subjects/courses in 'first appearance' within the first 4 academic years (or 8 sequential semesters) from the date of commencement of first year first semester.
- (ii) Should not have been detained or prevented from writing the end semester examinations in any semester due to shortage of attendance or any other reason, shall be placed in 'first class with distinction'.

12.4 Students with final CGPA (at the end of the under graduate programme) ≥ 6.00 but < 7.50 , shall be placed in 'first class'.

12.5 Students with final CGPA (at the end of the under graduate programme) ≥ 5.00 but < 6.00 , shall be placed in 'second class'.

12.6 A student with final CGPA (at the end of the under graduate programme) < 5.00 will not be eligible for the award of the degree.

12.7 Students fulfilling the conditions listed under item 12.3 alone will be eligible for award of 'university rank' and 'gold medal'.

13.0 Withholding of results

13.1 If the student has not paid the fees to the university/ college at any stage, or has dues pending due to any reason whatsoever, or if any case of indiscipline is pending, the result of the student may be withheld, and student will not be allowed to go into the next higher semester. The award or issue of the degree may also be withheld in such cases.

14.0 Transitory regulations

A. For students detained due to shortage of attendance:

1. A Student who has been detained in 1 year of R15/R16/R17 Regulations due to lack of attendance, shall be permitted to join 1 year I Semester of R22 Regulations and he is required to complete the

study of B. Pharmacy programme within the stipulated period of eight academic years from the date of first admission in I Year.

2. A student who has been detained in any semester of II, III and IV years of R15/R16/R17 regulations for want of attendance, shall be permitted to join the corresponding semester of R22 regulations and is required to complete the study of B. Pharmacy within the stipulated period of eight academic years from the date of first admission in I Year. The R22 Academic Regulations under which a student has been readmitted shall be applicable to that student from that semester.

See rule (C) for further Transitory Regulations.

B. For students detained due to shortage of credits:

3. A student of R15/R16/R17 Regulations who has been detained due to lack of credits, shall be promoted to the next semester of R22 Regulations only after acquiring the required credits as per the corresponding regulations of his/her first admission. The student is required to complete the study of B. Pharmacy within the stipulated period of eight academic years from the year of first admission. The R22 Academic Regulations are applicable to a student from the year of readmission onwards.

See rule (C) for further Transitory Regulations.

C. For readmitted students in R22 Regulations:

4. A student who has failed in any subject under any regulation has to pass those subjects in the same regulations.
5. The maximum credits that a student acquires for the award of degree, shall be the sum of the total number of credits secured in all the regulations of his/her study including R22 Regulations.
6. If a student readmitted to R22 Regulations, has any subject with 80% of syllabus common with his/her previous regulations, that particular subject in R22 Regulations will be substituted by another subject to be suggested by the University.

Note: If a student readmitted to R22 Regulations, has not studied any subjects/topics in his/her earlier regulations of study which is prerequisite for further subjects in R22 Regulations, the College Principals concerned shall conduct remedial classes to cover those subjects/ topics for the benefit of the students.

15.0 Student transfers

15.1 There shall be no transfers from one college to another within the constituent colleges and units of Jawaharal Nehru Technological University Hyderabad.

15.3 The students seeking transfer to colleges affiliated to JNTUH from various other Universities/Institutions have to pass the failed subjects which are equivalent to the subjects of JNTUH, and also pass the subjects of JNTUH which the students have not studied at the earlier institution. Further, though the students have passed some of the subjects at the earlier institutions, if the same subjects are prescribed in different semesters of JNTUH, the students have to study those subjects in JNTUH in spite of the fact that those subjects are repeated.

15.4 The transferred students from other Universities/institutions to JNTUH affiliated colleges who are on rolls to be provide one chance to write the CBT (Internal marks) in the **failed subjects and/or subjects not studied** as per the clearance letter issued by the university.


15.5 The autonomous affiliated colleges have to provide one chance to write the Internal examinations in the **failed subjects and/or subjects not studied**, to the students transferred from other universities/institutions to JNTUH autonomous affiliated colleges who are on rolls, as per the clearance (equivalence) letter issued by the University.

16.0 Scope

16.1 The academic regulations should be read as a whole, for the purpose of any interpretation.

16.2 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.

16.3 The university may change or amend the academic regulations, course structure or syllabi at any time, and the changes or amendments made shall be applicable to all students with effect from the date notified by the university authorities.


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(Established by Act No. 30 of 2008)
Kukatpally, Hyderabad, Telangana (India).

Academic Regulations for B.Pharm. (Lateral Entry Scheme) w.e.f the AY 2023-24

1. Eligibility for award of B. Pharm. Degree (LES)

The LES students after securing admission shall pursue a course of study for not less than three academic years and not more than six academic years.

2. The student shall register for 153 credits and secure 153 credits with CGPA \geq 6.00 from II year to IV year B.Pharm. programme (LES) for the award of B.Pharm. degree.

3. The students, who fail to fulfil the requirement for the award of the degree in six academic years from the year of admission, shall forfeit their seat in B.Pharm.

4. The attendance requirements of B. Pharm. (Regular) shall be applicable to B.Pharm. (LES).

5. Promotion rule

S. No	Promotion	Conditions to be fulfilled
1	Second year to third year	Regular course of study of second year.
2	Third Year to fourth year	(i) Regular course of study of third year. (ii) Must have passed all the subjects/ courses up to II Year II-Semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.

6. All the other regulations as applicable to B. Pharm. 4-year degree course (Regular) will hold good for B. Pharm. (Lateral Entry Scheme).

MALPRACTICES RULES

DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS

	Nature of Malpractice/Improper conduct	Punishment
	If the student:	
1. (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which student is appearing but has not made use of (material shall include any marks on the body of the student which can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.

(b)	Gives assistance or guidance or receives it from any other student orally or by any other body language methods or communicates through cell phones with any student or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that subject only of all the students involved. In case of an outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the student is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The hall ticket of the student is to be cancelled and sent to the university.
3.	Impersonates any other student in connection with the examination.	The student who has impersonated shall be expelled from examination hall. The student is also debarred and forfeits the seat. The performance of the original student who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and UG major project) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the chief superintendent/assistant – superintendent / any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether	In case of students of the college, they shall be expelled from examination hall and cancellation of their performance in that subject and all other subjects the student(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The students also are debarred and forfeit their seats. In case of outsiders, they will be

	by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the college campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	handed over to the police and a police case is registered against them.
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat.
9.	If student of the college, who is not a student for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat. Person(s) who do not belong to the college will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the student has appeared including practical examinations and UG major project of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall	

	be reported to the university for further action to award suitable punishment.	
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Malpractices identified by squad or special invigilators

1. Punishments to the students as per the above guidelines.
2. Punishment for institutions : (if the squad reports that the college is also involved in encouraging malpractices)
 - a. A show cause notice shall be issued to the college.
 - b. Impose a suitable fine on the college.
 - c. Shifting the examination centre from the college to another college for a specific period of not less than one year.


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भारत का राजपत्र The Gazette of India

साप्ताहिक/WEEKLY

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४०. १९] NEW DELHI, SATURDAY, MAY 10—MAY 16, 2008 (VAISAKHA 20, 1930)

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

भाग III—खण्ड 4

[PART III—SECTION 4]

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

भारतीय रिज़र्व बैंक


मुंबई-400001, दिनांक 9 अप्रैल 2008

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

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

आनन्द सिन्हा

कार्यपालक निदेशक


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

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

New Delhi, 10th May, 2008.

Pharm.D. Regulations 2008

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

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

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

CHAPTER-I

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


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CHAPTER-II

3. Duration of the course. –

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

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

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

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

Phase I – consisting of First and Second academic year.

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

4. Minimum qualification for admission to, –

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

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

Mathematics or Biology.

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

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

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

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

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

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

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

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

TABLES

First Year :

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


* For Biology

Second Year:

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

Third Year:

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


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Fourth Year:

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

Fifth Year:

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

* Attending ward rounds on daily basis.

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Sixth Year:

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

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

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

TABLES**First Year examination :**

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

* for Biology,

Second Year examination :

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

Third Year examination :

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
3.1	Pharmacology-II	70	30	100	70	30	100
3.2	Pharmaceutical Analysis	70	30	100	70	30	100
3.3	Pharmacotherapeutics-II	70	30	100	70	30	100
3.4	Pharmaceutical Jurisprudence	70	30	100	-	-	-
3.5	Medicinal Chemistry	70	30	100	70	30	100
3.6	Pharmaceutical Formulations	70	30	100	70	30	100
				600			300 = 1100

Fourth Year examination :

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

Fifth Year examination :

S.No.	Name of Subject	Maximum marks for Theory			Maximum marks for Practicals		
		Examination	Sessional	Total	Examination	Sessional	Total
5.1	Clinical Research	70	30	100	-	-	-
5.2	Pharmacoepidemiology and Pharmacoeconomics	70	30	100	-	-	-
5.3	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	70	30	100	-	-	-
5.4	Clerkship *	-	-	-	70	30	100
5.5	Project work (Six Months)	-	-	-	80**	-	100
				300			200 + 500

* Attending ward rounds on daily basis.

** 30 marks – viva-voce (oral)

70 marks – Thesis work

11. Eligibility for appearing Examination.— Only such students who produce certificate from the Head of the Institution in which he or she has undergone the Pharm.D. or as the case may be, the Pharm.D. (Post Baccalaureate) course, in proof of his or her having regularly and satisfactorily undergone the course of study by attending not less than 80% of the classes held both in theory and in practical separately in each subject shall be eligible for appearing at examination.
12. Mode of examinations.— (1) Theory examination shall be of three hours and practical examination shall be of four hours duration.
 - (2) A Student who fails in theory or practical examination of a subject shall re-appear both in theory and practical of the same subject.
 - (3) Practical examination shall also consist of a viva –voce (Oral) examination.
 - (4) Clerkship examination – Oral examination shall be conducted after the completion of clerkship of students. An external and an internal examiner will evaluate the student. Students may be asked to present the allotted medical cases followed by discussion. Students' capabilities in delivering clinical pharmacy services, pharmaceutical care planning and knowledge of therapeutics shall be assessed.
13. Award of sessional marks and maintenance of records.— (1) A regular record of both theory and practical class work and examinations conducted in an institution imparting training for Pharm.D. or as the case may be, Pharm.D. (Post Baccalaureate) course, shall be maintained for each student in the institution and 30 marks for each theory and 30 marks for each practical subject shall be allotted as sessional.
 - (2) There shall be at least two periodic sessional examinations during each academic year and the highest aggregate of any two performances shall form the basis of calculating sessional marks.
 - (3) The sessional marks in practicals shall be allotted on the following basis:-
 - (i) Actual performance in the sessional examination (20 marks);
 - (ii) Day to day assessment in the practical class work, promptness, viva-voce record maintenance, etc. (10 marks).

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


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CHAPTER-III

Practical training

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

23. Reporting — (1) Student working on the project shall submit jointly to the Head of the Department or Head of the Institution a project report of about 40-50 pages. Project report should include a certificate issued by the authorised teacher, Head of the Department as well as by the Head of the Institution

(2) Project report shall be computer typed in double space using Times Roman font on A4 paper. The title shall be in bold with font size 18, sub-titles in bold with font size 14 and the text with font size 12. The cover page of the project report shall contain details about the name of the student and the name of the authorised teacher with font size 14.

(3) Submission of the project report shall be done at least one month prior to the commencement of annual or supplementary examination.

24. Evaluation.— The following methodology shall be adopted for evaluating the project work—

(i) Project work shall be evaluated by internal and external examiners.

(ii) Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of four students).

(iii) Three seminars presented by students shall be evaluated for twenty marks each and the average of best two shall be forwarded to the university with marks of other subjects.

(iv) Evaluation shall be done on the following items:

	Marks
a) Write up of the seminar	(7.5)
b) Presentation of work	(7.5)
c) Communication skills	(7.5)
d) Question and answer skills	(7.5)
Total	(30 marks)

(v) Final evaluation of project work shall be done on the following items:

	Marks
a) Write up of the seminar	(17.5)
b) Presentation of work	(17.5)
c) Communication skills	(17.5)
d) Question and answer skills	(17.5)
Total	(70 marks)

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



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
(Established by Act No.30 of 2008)
Kukatpally, Hyderabad-500085, Telangana State (India)

Academic Regulations of M.Pharm. (Regular/Full Time) Programmes, 2022-23 (R22)
(CBCS)

(Effective for the students admitted into 1 year from the Academic Year 2022-23 and onwards)

1.0 Post-Graduate Degree Programmes in Pharmacy (PGP in Pharmacy) Jawaharlal Nehru Technological University Hyderabad (JNTUH) offers Two Years (Four Semesters) full-time Master of Pharmacy (M.Pharm.) Degree programmes, under Choice Based Credit System (CBCS) at its constituent (non-autonomous) and affiliated colleges in different specializations.

2.0 Eligibility for Admissions

2.1 Admission to the PGPs shall be made subject to eligibility, qualification and specializations prescribed by the University from time to time, for each specialization under each M.Pharm. programme.

2.2 Admission to the post graduate programme shall be made on the basis of either the merit rank or Percentile obtained by the qualified student in the relevant qualifying GPAT Examination/ the merit rank obtained by the qualified student in an entrance test conducted by Telangana State Government (PGECET) for M.Pharm. programmes / an entrance test conducted by JNTUH/ on the basis of any other exams approved by the University, subject to reservations as laid down by the Govt. from time to time.

2.3 The medium of instructions for all PG Programmes will be **ENGLISH** only.

3.0 M.Pharm. Programme (PGP in Pharmacy) Structure

3.1 The M.Pharm. Programmes in Pharmacy of JNTUH are of Semester pattern, with **Four Semesters** consisting of **Two** academic years, each academic year having **Two Semesters** (First/Odd and Second/Even Semesters). Each Semester shall be of 23 weeks duration (inclusive of Examinations), with a minimum of 100 instructional days per Semester.

3.2 The student shall not take more than **four** academic years to fulfill all the academic requirements for the award of M.Pharm. degree from the date of commencement of first year first semester, failing which the student shall forfeit the seat in M.Pharm. programme.

3.3 UGC/PCI specified definitions/descriptions are adopted appropriately for various terms and abbreviations used in these PG academic regulations, as listed below:

3.3.1 Semester Scheme

Each Semester shall have 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) are taken as 'references' for the present set of Regulations. The terms 'SUBJECT' and 'COURSE' imply the same meaning here and refer to 'Theory Subject', or 'Lab Course', or 'Design Subject', or 'Mini Project with Seminar', or 'Dissertation', as the case may be.

3.3.2 Credit Courses

All subjects/courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/course in an L: T: P: G (Lecture Periods: Tutorial Periods: Practical Periods:



Credits) structure based on the following general pattern:

- One credit for one hour/week/semester for theory/lecture (L) courses
- One credit for two hours/ week/semester for laboratory/ practical (P) courses or tutorials (T)

Other student activities like study tour, guest lecture, conference/workshop participations, technical paper presentations and mandatory courses (**Audit Courses**) will not carry any credits.

3.3.3 Subject Course Classification

All subjects/courses offered for the Post-Graduate Programme in Pharmacy (M.Pharm. Degree Programme) are broadly classified as follows. The University has followed in general the guidelines issued by UGC/PCI.

S.No.	Broad Course Classification	Course Group/ Category	Course Description
1	Core Courses (CoC)	PG- Professional Core	Includes subjects related to the Specialization in Pharmacy
		Dissertation	M.Pharm. Project or PG Project or Major Project
		Mini Project/ Seminar	Mini Project/Seminar based on core contents related to the Specialization in Pharmacy
2	Elective Courses (EIE)	PE - Professional Electives	Includes elective subjects related to the Specialization in Pharmacy
		OE - Open Electives	Elective subjects which include inter-disciplinary subjects or subjects in an area outside the Specialization in Pharmacy
3	Mandatory Courses	—	Non-Credit Audit Courses

4.0 Course Registration

- 4.1 A 'Faculty Advisor or Counselor' shall be assigned to each specialization, who will advise on the Post Graduate Programme (PGP), its Course Structure and Curriculum. Choice/Option for Subjects/ Courses, based on his competence, progress, pre-requisites and interest.
- 4.2 The Academic Section of the College invites 'Registration Forms' from students within 15 days from the commencement of class work through 'ON-LINE SUBMISSIONS', ensuring 'DATE and TIME Stamping'. The ON-LINE Registration Requests for any 'CURRENT SEMESTER' shall be completed BEFORE the commencement of SEEs (Semester End Examinations) of the 'PRECEDING SEMESTER'.
- 4.3 A Student can apply for ON-LINE Registration, ONLY AFTER obtaining the 'WRITTEN APPROVAL' from his Faculty Advisor, which should be submitted to the College Academic Section through the Head of Department (a copy of it being retained with Head of Department, Faculty Advisor and the Student).
- 4.4 If the Student submits ambiguous choices or multiple options or erroneous entries during ON-LINE Registration for the Subject(s) / Course(s) under a given/ specified Course Group/ Category as listed in the Course Structure, only the first mentioned Subject/ Course in that Category will be taken into consideration.



- 4.5 Subject/ Course Options exercised through ON-LINE Registration are final and CANNOT be changed, nor can they be inter-changed; further, alternate choices also will not be considered. However, if the Subject/ Course that has already been listed for Registration by the University in a Semester could not be offered due to unforeseen or unexpected reasons, then the Student will be allowed to have alternate choice either for a new Subject, if it is offered, or for another existing Subject (subject to availability of seats). Such alternate arrangements will be made by the Head of Department, with due notification and time-framed schedule, within the FIRST WEEK from the commencement of Class-work for that Semester.

5.0 Attendance Requirements

The programmes are offered based on a unit system with each subject being considered a unit. Attendance is calculated separately for each subject.

- 5.1 Attendance in all classes (Lectures/Laboratories) is compulsory. The minimum required attendance in each theory subject (**also mandatory audit courses**) including the attendance of mid-term examination / Laboratory etc. is 80%. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. ***This attendance should also be included in the fortnightly upload of attendance to the University. The attendance of mandatory audit courses should be uploaded separately to the University.*** A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than 80%.
- 5.2 A student's Seminar report and presentation on Mini Project shall be eligible for evaluation, only if he ensures a minimum of 80% of his attendance in Seminar presentation classes on Mini Project during that Semester.
- 5.3 **Condoning of shortage of attendance** (between 70% and 80%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each subject (Theory/Lab/Mini Project with Seminar) of a semester shall be granted by the College Academic Committee on genuine reasons.
- 5.4 A prescribed fee per subject shall be payable for condoning shortage of attendance after getting the approval of College Academic Committee for the same. The College Academic Committee shall maintain relevant documents along with the request from the student.
- 5.5 Shortage of Attendance below 70% in any subject shall in **no case be condoned**.
- 5.6 A Student, whose shortage of attendance is not condoned in any Subject(s) (Theory/Lab/Mini Project with Seminar) in any Semester, is considered as 'Detained' in that Subject(s), and is not eligible to write Semester End Examination(s) of such Subject(s), (In case of Mini Project with Seminar, his/her Mini Project with Seminar Report or Presentation are not eligible for evaluation) in that Semester; and he/she has to seek re-registration for those Subject(s) in subsequent Semesters, and attend the same as and when offered.
- 5.7 A student fulfills the attendance requirement in the present semester, shall not be eligible for readmission into the same class.
- 5.8 a) A student shall put in a minimum required attendance in at least **three theory subjects (excluding mandatory(audit) course)** in first Year I semester for promotion to first Year II Semester.
b) A student shall put in a minimum required attendance in at least **three theory subjects (excluding mandatory(audit) course)** in first Year II semester for promotion to second Year I Semester.



6.0 Academic Requirements

The following academic requirements must be satisfied, in addition to the attendance requirements mentioned in item no. 5. The performance of the candidate in each semester shall be evaluated subject-wise, with a maximum of 100 marks per subject / course (theory / practical), based on Internal Evaluation and Semester End Examination.

- 6.1 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/course, if he secures not less than 40% of marks (30 out of 75 marks) in the Semester End Examination, and a minimum of 50% of marks in the sum total of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of Letter Grades and this implies securing 'D' Grade or above in a subject.
- 6.2 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to **Mini Project**, if student secures not less than 50% marks (i.e. 50 out of 100 allotted marks). The student would be treated as failed, if student (i) does not submit a report on Mini Project or does not make a presentation of the same before the evaluation committee as per schedule or (ii) secures less than 50% marks in Mini Project evaluation. The failed student may reappear once for the above evaluation, as and when they are scheduled again; if the student fails in such 'one reappearance' evaluation also, the student has to reappear for the same in the next subsequent semester, as and when it is scheduled.
- 6.3 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to **seminar & assignment**, if student secures not less than 50% marks i.e. 50 out of 100 allotted marks. 50 marks are allotted for **Seminar**, 50 marks are allotted for **Assignment**, Total 50+50 = 100 marks. The student would be treated as failed, if student (i) does not submit a report on seminar/does not submit the assignments as prescribed or does not make a seminar presentation before the evaluation committee as per schedule or (ii) secures less than 50% (i.e. < 25 marks out of 50) marks in each of the seminar & assignment evaluations. The student failed in seminar evaluation may reappear once for it, as and when it is scheduled again; The student failed in assignment evaluation may submit the assignments once again for the evaluation, as and when the assignment submission is scheduled again. If the student fails in such 'one reappearance' evaluation also, the student has to reappear for the same in the next subsequent semester, as and when it is scheduled.
- 6.4 A student shall register for all subjects for total of 98 credits as specified and listed in the course structure for the chosen specialization, put in required the attendance and fulfill the academic requirements for securing 98 credits obtaining a minimum of 'D' Grade or above in each subject, and all 98 credits securing Semester Grade Point Average (SGPA) ≥ 6.0 (in each semester) and final Cumulative Grade Point Average (CGPA) (i.e., CGPA at the end of PGP) ≥ 6.0 , and shall **pass all the mandatory audit courses** to complete the PGP successfully.
- Note:** (1) The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum 'D' grade in all the subjects.
- (2) CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters
- 6.5 Marks and Letter Grades obtained in all those subjects covering the above specified 98 credits alone shall be considered for the calculation of final CGPA, which will be indicated in the Grade Card Marks Memo of second year second semester.
- 6.6 If a student registers for extra subject(s) (in the parent specialization or other specializations of



Pharmacy) other than those listed subjects totaling to 98 credits as specified in the course structure, the performance in extra subject(s) (although evaluated and graded using the same procedure as that of the required 98 credits) will not be considered while calculating the SGPA and CGPA. For such extra subject(s) registered, percentage of marks and Letter Grade alone will be indicated in the Grade Card/Marks Memo, as a performance measure, subject to completion of the attendance and academic requirements as stated in Items 5 and 6.1 - 6.4.

- 6.7 When a student is detained due to shortage of attendance in any subject(s) in any semester, no Grade allotment will be made for such subject(s). However, he is eligible for re-registration of such subject(s) in the subsequent semester(s), as and when next offered, with the academic regulations of the batch into which he is re-registered, by paying the prescribed fees per subject. In all these re-registration cases, the student shall have to secure a fresh set of internal marks and Semester End Examination marks for performance evaluation in such subject(s), and SGPA/CGPA calculations.
- 6.8 A student eligible to appear for the Semester End Examination in any subject, but absent from it or failed (failing to secure 'D' Grade or above), may reappear for that subject at the supplementary examination as and when conducted. In such cases, his Internal Marks assessed earlier for that subject will be carried over, and added to the marks secured in the supplementary examination, for the purpose of evaluating his performance in that subject.
- 6.9 A Student who fails to earn 98 credits as per the specified course structure, and as indicated above, within four academic years from the date of commencement of his first year first semester, shall forfeit his seat in M.Pharm. programme and his admission shall stand cancelled.

7.0 Evaluation - Distribution and Weightage of Marks

The performance of a student in each semester shall be evaluated subject-wise (irrespective of credits assigned) for a maximum of 100 marks. The performance of a student in every theory subject/course will be evaluated for 100 marks, with 25 marks allotted for CIE (Continuous Internal Evaluation) and 75 marks for SEE (Semester End-Examination).

- 7.1 For theory subjects, 75 marks shall be awarded for the performance in the Semester End Examination and 25 marks shall be awarded for Continuous Internal Evaluation (CIE). The Continuous Internal Evaluation shall be made based on the average of the marks secured in the two Mid-Term Examinations conducted, first Mid-Term examinations in the middle of the Semester and second Mid-Term examinations during the last week of instruction. Each Mid-Term Examination shall be conducted for a total duration of 120 minutes with Part 'A' as compulsory consisting of 5 questions carrying 2 marks each (10 marks), and Part 'B' with 3 questions to be answered out of 5 questions, each question carrying 5 marks (15 marks). The details of the Question Paper pattern for Semester End Examination (Theory) are given below:
- The Semester End Examination will be conducted for 75 marks. It consists of two parts.
i) Part A for 25 marks, ii) Part B for 50 marks.
 - Part A is compulsory and consists of 5 questions, one from each unit and carrying 5 marks each.
 - Part B consists of 5 questions carrying 10 marks each. There will be two questions from each unit and only one should be answered.
- 7.2 For practical subjects there shall be a Continuous Internal Evaluation (CIE) during the semester for 25 marks and 75 marks for semester end examination. Out of the 25 marks for internal evaluation:
1. A write-up on day-to-day experiment in the laboratory (in terms of aim, components/procedure, expected outcome) which shall be evaluated for 5 marks



2. 10 marks for viva-voce in the course concerned.
3. Internal practical examination conducted by the laboratory teacher concerned shall be evaluated for 10 marks.

The Semester End Examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the cluster/other colleges which will be decided by the examination branch of the University.

In the Semester End Examination held for 3 hours, total 75 marks are divided and allocated as shown below:

1. 10 marks for Synopsis
2. 50 marks for experiment
3. 15 marks for viva-voce on concerned laboratory course

A student has to secure 50 marks (i.e. 50% out of the 100 marks) allotted for CIE and SEE taken together.

- 7.3** There shall be Mini Project during I year II semester for **internal evaluation** of 100 marks. The Departmental Academic Committee (DAC) will review the progress of the mini project during the presentations and evaluate the same for 50 marks. Mini Project Viva Voce will be evaluated by the DAC for another 50 marks before the semester end examinations. Student shall carryout the mini project in consultation with the mini project supervisor which may include critically reviewing the literature, project implementation and submit it to the department in the form of a report and shall make an oral presentation before the DAC consisting of Head of the Department, Mini Project supervisor and two other senior faculty members of the department. The student has to secure a minimum of 50% of marks in i) mini project presentation and ii) mini project viva voce, to be declared successful. If he fails to obtain the minimum marks, he has to reappear for the same as and when scheduled.
- 7.4** There shall be **seminar & assignment** during I Year I Semester & I Year II Semester for **internal evaluation** of 100 marks. 50 marks are allotted for Seminar, 50 marks are allotted for Assignment, **Total 50+50 = 100 marks.**

For **Seminar**, the student in consultation with the seminar supervisor shall collect the information on a specialized topic, prepare a report, and submit it to the department. The Departmental Academic Committee (DAC) consisting of Head of the Department, seminar supervisor and two other senior faculty members of the department will evaluate the seminar report for 50 marks before the semester end examinations. The student has to secure a minimum of 25 marks (i.e. 50% out of the 50 marks) allotted to be declared successful. If he fails to obtain the minimum marks, he has to reappear for the same as and when scheduled.

For **Assignment**, the student is required to submit **one assignment from each theory subject/course** in I Year I Semester & I Year II Semester before the commencement of Semester End Examinations.

- In I Year I Semester there are 5 theory courses and 5 assignments are to be submitted in total, one assignment each to the concerned theory subject teacher. The concerned theory subject teacher will evaluate the assignment for 10 marks. So 5 assignments will be evaluated for 50 marks in total.
- In I Year II Semester there are 4 theory courses and 4 assignments are to be submitted in total, one assignment each to the concerned theory subject teacher. The concerned theory subject teacher will evaluate the assignment for 12.5 marks. So 4 assignments will be evaluated for 50 marks in total.



The student has to secure a minimum of 25 marks (i.e. 50% out of the 50 marks) allotted to be declared successful. If he fails to obtain the minimum marks, he may submit the assignments once again for the evaluation, as and when the assignment submission is scheduled again.

- 7.5 There shall be comprehensive viva-voce during II year I semester for external evaluation of 100 marks. It shall be evaluated by the committee consisting of an external examiner, Head of the Department, and two other senior faculty members of the department before the semester end examinations. The external examiner shall be appointed from the cluster/other colleges which will be decided by the examination branch of the University. The student has to secure a minimum of 50 marks (i.e. 50% out of the 100 marks) allotted to be declared successful, if he fails to obtain the minimum marks, he has to reappear for the same as and when scheduled.
- 7.6 Every candidate shall be required to submit a dissertation on a topic approved by the Dissertation Review Committee.
- 7.7 A Dissertation Review Committee (DRC) shall be constituted with the Head of the Department as Chairperson, Dissertation Supervisor and one senior faculty member of the Department offering the M.Pharm. programme.
- 7.8 Registration of Dissertation Work: A candidate is permitted to register for the Dissertation Work after satisfying the attendance requirement in all the subjects, both theory and laboratory.
- 7.9 After satisfying 7.8, a candidate must present in Dissertation Work Review - I, in consultation with his Dissertation Supervisor, the title, objective and plan of action of his Dissertation work to the Dissertation Review Committee (DRC) for approval within four weeks from the commencement of Second year First Semester. Only after obtaining the approval of the DRC can the student initiate the Dissertation work.
- 7.10 If a candidate wishes to change his supervisor or topic of the Dissertation, he can do so with the approval of the DRC. However, the DRC shall examine whether or not the change of topic/supervisor leads to a major change of his initial plans of Dissertation proposal. If yes, his date of registration for the project work starts from the date of change of Supervisor or topic as the case may be.
- 7.11 A candidate shall submit his Dissertation progress report in two stages at least with a gap of three months between them.
- 7.12 The work on the Dissertation shall be initiated at the beginning of the II year and the duration of the Dissertation is two semesters. A candidate is permitted to submit Dissertation Thesis only after successful completion of all theory and practical courses with the approval of DRC not earlier than 40 weeks from the date of approval of the Dissertation work. For the approval of DRC the candidate shall submit the draft copy of thesis to the Head of the Department and make an oral presentation before the DRC.
- 7.13 The Dissertation Work Review - II in II Year I Sem. carries internal marks of 100. Evaluation should be done by the DRC for 50 marks and the Supervisor will evaluate the work for the other 50 marks. The Supervisor and DRC will examine the Problem Definition, Objectives, Scope of Work, Methodology Adopted, Literature Survey in the same domain and progress of the Dissertation Work. A candidate has to secure a minimum of 50% of marks to be declared successful in Dissertation Work Review - II. If he fails to obtain the minimum required marks, he has to reappear for Dissertation Work Review - II as and when conducted.



- 7.14 The Dissertation Work Review - III in II Year II Sem. carries 100 internal marks. Evaluation should be done by the DRC for 50 marks and the Supervisor will evaluate it for the other 50 marks. The DRC will examine the overall progress of the Dissertation Work and decide whether or not the Dissertation is eligible for final submission. The evaluation shall be done as per the criteria given below:

Evaluation of Dissertation Book (Internal Evaluation):

Objective(s) of the work done	- 10 Marks
Methodology adopted	- 30 Marks
Results and Discussions	- 50 Marks
Conclusions and Outcomes	- 10 Marks
Total	- 100 Marks

A candidate has to secure a minimum of 50% of marks to be declared successful in Dissertation Work Review - III. If he fails to obtain the required minimum marks, he has to reappear for Dissertation Work Review - III as and when conducted.

- 7.15 For Dissertation Evaluation (Viva Voce) in II Year II Sem. there are external marks of 100 and it is evaluated by the external examiner. The evaluation shall be done as per the criteria given below:

Evaluation of Presentation (External Evaluation):

Presentation of work	- 40 Marks
Communication skills	- 20 Marks
Viva-Voce	- 40 Marks
Total	- 100 Marks

The candidate has to secure a minimum of 50% marks in Dissertation Evaluation (Viva-Voce) examination. If he fails to obtain the required minimum marks, he has to reappear for the same as and when conducted.

- 7.16 Dissertation Work Reviews - II and III shall be conducted in phase I (Regular) and Phase II (Supplementary). Phase II will be conducted only for unsuccessful students in Phase I. The unsuccessful students in Dissertation Work Review - II (Phase II) shall reappear for it at the time of Dissertation Work Review - III (Phase I). These students shall reappear for Dissertation Work Review - III in the next academic year at the time of Dissertation Work Review - II only after completion of Dissertation Work Review - II, and then Dissertation Work Review - III follows. The unsuccessful students in Dissertation Work Review - III (Phase II) shall reappear for Dissertation Work Review - II in the next academic year only at the time of Dissertation Work Review - II (Phase I).

- 7.17 After approval from the DRC, a soft copy of the thesis should be submitted for ANTI-PLAGIARISM check and the plagiarism report should be submitted to the University and be included in the final thesis. The Thesis will be accepted for submission, if the similarity index is less than 30%. If the similarity index has more than the required percentage, the student is advised to modify accordingly and re-submit the soft copy of the thesis after one month. The maximum number of re-submissions of thesis after plagiarism check is limited to TWO. The candidate has to register for the Dissertation work and work for two semesters. After three attempts, the admission is liable to be cancelled. The college authorities are advised to make plagiarism check of every soft copy of theses before submissions.

- 7.18 Three copies of the Dissertation Thesis certified by the supervisor shall be submitted to the College/School/Institute, after submission of a research paper related to the Dissertation work in a UGC approved journal. A copy of the submitted research paper shall be attached to thesis.

- 7.19 The thesis shall be adjudicated by an external examiner selected by the University. For this, the



Principal of the College/School/Institute shall submit a panel of **three** examiners from among the list of experts in the relevant specialization as submitted by the supervisor concerned and Head of the Department.

- 7.20 If the report of the external examiner is unsatisfactory, the candidate shall revise and resubmit the Thesis. If the report of the examiner is unsatisfactory again, the thesis shall be summarily rejected. Subsequent actions for such dissertations may be considered, only on the specific recommendations of the external examiner and /or Dissertation Review Committee. No further correspondence in this matter will be entertained, if there is no specific recommendation for resubmission.
- 7.21 If the report of the examiner is satisfactory, the Head of the Department shall coordinate and make arrangements for the conduct of Dissertation Viva-Voce examination. The Dissertation Viva-Voce examination shall be conducted by a board consisting of the Supervisor, Head of the Department and the external examiner who adjudicated the Thesis. The candidate has to secure a minimum of 50% of marks in Dissertation Evaluation (Viva-Voce) examination.
- 7.22 If he fails to fulfill the requirements as specified in 7.21, he will reappear for the Dissertation Viva-Voce examination only after three months. In the reappeared examination also, if he fails to fulfill the requirements, he will not be eligible for the award of the degree, unless he is asked to revise and resubmit his Dissertation Work by the board within a specified time period (within four years from the date of commencement of his first year first semester).
- 7.23 The Dissertation Viva-Voce External examination marks must be submitted to the University on the day of the examination.
- 7.24 For mandatory audit courses, a student has to secure 50 marks out of 100 marks (i.e. 50% of the marks allotted) in the continuous internal evaluation for passing the subject/course. These marks should also be uploaded along with the internal marks of other subjects.
- 7.25 No marks or letter grades shall be allotted for mandatory audit courses. Only Pass/Fail shall be indicated in Grade Card.

8.0 Re-Admission/Re-Registration

8.1 Re-Admission for Discontinued Student

A student, who has discontinued the M.Pharm. degree programme due to any reason whatsoever, may be considered for 'readmission' into the same degree programme (with the same specialization) with the academic regulations of the batch into which he gets readmitted, with prior permission from the authorities concerned, subject to item 6.7.

- 8.2 If a student is detained in a subject (s) due to shortage of attendance in any semester, he may be permitted to re-register for the same subject(s) in the same category (core or elective group) or equivalent subject, if the same subject is not available, as suggested by the Board of Studies of that department, as and when offered in the subsequent semester(s), with the academic regulations of the batch into which he seeks re-registration, with prior permission from the authorities concerned, subject to item 3.2
- 8.3 A candidate shall be given only one-time chance to re-register and attend the classes for a maximum of two subjects in a semester, if the internal marks secured by a candidate are less than 40% and failed in those subjects but fulfilled the attendance requirement. A candidate must re-register for failed subjects within four weeks of commencement of the class work and secure the required



minimum attendance. In the event of the student taking this chance, his Continuous Internal Evaluation (internal) marks and Semester End Examination marks obtained in the previous attempt stand cancelled.

9.0 Examinations and Assessment - The Grading System

9.1 Grades will be awarded to indicate the performance of each student in each Theory Subject, or Lab/Practicals, or Mini Project with Seminar, Dissertation, etc., based on the percentage of marks obtained in CIE + SEE (Continuous Internal Evaluation + Semester End Examination, both taken together) as specified in Item 7 above, and a corresponding Letter Grade shall be given.

9.2 As a measure of the student's performance, a 10-point Absolute Grading System using the following Letter Grades (PCI Guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (PCI Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A (Excellent)	9
70 and less than 80%	B (Good)	8
60 and less than 70%	C (Fair)	7
50 and less than 60%	D (Average)	6
Below 50%	F (FAIL)	0
Absent	Ab	0

9.3 A student obtaining 'F' Grade in any Subject is deemed to have 'failed' and is required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted. In such cases, his Internal Marks (CIE Marks) in those subjects will remain as obtained earlier.

9.4 If a student has not appeared for the examinations, 'Ab' Grade will be allocated to him for any subject and shall be considered 'failed' and will be required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted.

9.5 A Letter Grade does not imply any specific marks percentage; it is only the range of percentage of marks.

9.6 In general, a student shall not be permitted to repeat any Subject/ Course (s) only for the sake of 'Grade Improvement' or 'SGPA/ CGPA Improvement'.

9.7 A student earns Grade Point (GP) in each Subject/ Course, on the basis of the Letter Grade obtained by him in that Subject/ Course. The corresponding 'Credit Points' (CP) are computed by multiplying the Grade Point with Credits for that particular Subject/ Course.

$$\text{Credit Points (CP)} = \text{Grade Point (GP)} \times \text{Credits} \dots \text{For a Course}$$

9.8 The student passes the Subject/ Course only when he gets $GP \geq 6$ (D Grade or above).

9.9 The Semester Grade Point Average (SGPA) is calculated by dividing the Sum of Credit Points (ΣCP) secured from ALL Subjects/ Courses registered in a Semester, by the Total Number of Credits registered during that Semester. SGPA is rounded off to TWO Decimal Places. SGPA is thus computed as

$$SGPA = \left\{ \sum_{i=1}^N C_i G_i \right\} / \left\{ \sum_{i=1}^N C_i \right\} \dots \text{For each Semester,}$$



where 'i' is the Subject indicator index (taking into account all Subjects in a Semester), 'N' is the no. of Subjects 'REGISTERED' for the Semester (as specifically required and listed under the Course Structure of the parent Department), C_i is the no. of Credits allotted to the i^{th} Subject, and G_i represents the Grade Points (GP) corresponding to the Letter Grade awarded for that i^{th} Subject.

- 9.10** The Cumulative Grade Point Average (CGPA) is a measure of the overall cumulative performance of a student over all Semesters considered for registration. The CGPA is the ratio of the Total Credit Points secured by a student in ALL registered Courses in ALL Semesters, and the Total Number of Credits registered in ALL the Semesters. CGPA is rounded off to TWO Decimal Places. CGPA is thus computed from the I Year Second Semester onwards, at the end of each Semester, as per the formula

$$\text{CGPA} = \left\{ \sum_{i=1}^M C_i G_i \right\} / \left\{ \sum_{i=1}^M C_i \right\} \dots \text{for all } S \text{ Semesters registered}$$

(ie., upto and inclusive of S Semesters, $S \geq 2$),

where 'M' is the TOTAL no. of Subjects (as specifically required and listed under the Course Structure of the parent Department) the Student has 'REGISTERED' for from the 1st Semester onwards upto and inclusive of the Semester S (obviously $M > N$), 'j' is the Subject indicator index (taking into account all Subjects from 1 to S Semesters), C_j is the no. of Credits allotted to the j^{th} Subject, and G_j represents the Grade Points (GP) corresponding to the Letter Grade awarded for that j^{th} Subject. After registration and completion of I Year I Semester however, the SGPA of that Semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
Course 1	4	A	9	$4 \times 9 = 36$
Course 2	4	D	10	$4 \times 10 = 40$
Course 3	4	C	7	$4 \times 7 = 28$
Course 4	3	B	8	$3 \times 8 = 24$
Course 5	3	A	10	$3 \times 10 = 30$
Course 6	3	C	7	$3 \times 7 = 21$
	Total Credits = 21			Total Credit Points = 179

$$\text{SGPA} = 179/21 = 8.52$$

Illustration of calculation of CGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
I Year I Semester				
Course 1	4	A	9	$4 \times 9 = 36$
Course 2	4	A	9	$4 \times 9 = 36$
Course 3	4	B	8	$4 \times 8 = 32$
Course 4	3	O	10	$3 \times 10 = 30$
Course 5	3	B	8	$3 \times 8 = 24$



Course 6	3	D	6	$3 \times 6 = 18$
I Year II Semester				
Course 7	4	B	8	$4 \times 8 = 32$
Course 8	4	O	10	$4 \times 10 = 40$
Course 9	4	A	9	$4 \times 9 = 36$
Course 10	3	D	6	$3 \times 6 = 18$
Course 11	3	C	7	$3 \times 7 = 21$
Course 12	3	A	9	$3 \times 9 = 27$
	Total Credits = 42			Total Credit Points = 350

$$\text{CGPA} = 350/42 = 8.33$$

10.0 Award of Degree and Class

10.1 If a student who registers for all the specified Subjects/ Courses as listed in the Course Structure, satisfies all the Course Requirements, and passes the examinations prescribed in the entire PG Programme (PGP), and secures the required number of 98 Credits (with CGPA ≥ 6.0), shall be declared to have 'QUALIFIED' for the award of the M.Pharm. Degree in the chosen specialization of Pharmacy that he was admitted into.

10.2 Award of Class

After a student has earned the requirements prescribed for the completion of the programme and is eligible for the award of M.Pharm. Degree, he shall be placed in one of the following three classes based on the CGPA:

Class Awarded	CGPA
First Class with Distinction	≥ 7.50
First Class	$6.00 \leq \text{CGPA} < 7.49$
Second Class	$5.00 \leq \text{CGPA} < 5.99$

A student with final CGPA (at the end of the PGP) < 6.00 shall not be eligible for the Award of Degree.

11.0 Withholding of Results

If the student has not paid the dues, if any, to the University or if any case of indiscipline is pending against him, the result and degree of the student will be withheld and he will not be allowed into the next semester.

12.0 General


12.1 **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.

12.2 **Credit Point:** It is the product of grade point and number of credits for a course.

12.3 Wherever the words "he", "him", "his", occur in the regulations, they shall include "she", "her".



- 12.4 The academic regulation should be read as a whole for the purpose of any interpretation.
- 12.5 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the University is final.
- 12.6 The University may change or amend the academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the University.


PRINCIPAL
Bharat Institute of Technology
Mangalpally CV, Hirathampetnam, Uthmaniyada
R.R. Dist - 501 510, Telangana

**MALPRACTICES RULES****DISCIPLINARY ACTION FOR IMPROPER CONDUCT IN EXAMINATIONS**

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



	question paper during the examination or answer book or additional sheet, during or after the examination.	all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the Chief Superintendent/Assistant – Superintendent/ any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already



		appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat.
9.	If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the University for further action to award suitable punishment.	

Malpractices identified by squad or special invigilators

1. Punishments to the candidates as per the above guidelines.
2. Punishment for institutions: (If the squad reports that the college is also involved in encouraging malpractices)
 - (i) A show cause notice shall be issued to the college.
 - (ii) Impose a suitable fine on the college.
 - (iii) Shifting the examination centre from the college to another college for a specific period of not less than one year

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2022-23

B. Pharm. I YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork / Orientation programme	28.11.2022	
2	1 st Spell of Instructions (including Induction programme)	28.11.2022	21.01.2023 (8 Weeks)
3	First Mid Term Examinations	23.01.2023	30.01.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	04.02.2023	
5	2 nd Spell of Instructions	31.01.2023	29.03.2023 (8 Weeks)
6	Second Mid Term Examinations	31.03.2023	08.04.2023 (1 Week)
7	Preparation Holidays and Practical Examinations	10.04.2023	15.04.2023 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	15.04.2023	
9	End Semester Examinations	17.04.2023	29.04.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 93

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	01.05.2023	
2	1 st Spell of Instructions (including Summer Vacation)	01.05.2023	08.07.2023 (10 Weeks)
3	Summer Vacation	15.05.2023	27.05.2023 (2 Weeks)
4	First Mid Term Examinations	10.07.2023	15.07.2023 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	22.07.2023	
6	2 nd Spell of Instructions	18.07.2023	11.09.2023 (8 Weeks)
7	Second Mid Term Examinations	12.09.2023	16.09.2023 (1 Week)
8	Preparation Holidays and Practical Examinations	19.09.2023	23.09.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	23.09.2023	
10	End Semester Examinations	25.09.2023	07.10.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 92

[Signature]
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2022-23

B. Tech./B.Pharm. II YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	28.11.2022	
2	1 st Spell of Instructions	28.11.2022	21.01.2023 (8 Weeks)
3	First Mid Term Examinations	23.01.2023	30.01.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	04.02.2023	
5	2 nd Spell of Instructions	31.01.2023	29.03.2023 (8 Weeks)
6	Second Mid Term Examinations	31.03.2023	08.04.2023 (1 Week)
7	Preparation Holidays and Practical Examinations	10.04.2023	15.04.2023 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	15.04.2023	
9	End Semester Examinations	17.04.2023	29.04.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 93

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	01.05.2023	
2	1 st Spell of Instructions (including Summer Vacation)	01.05.2023	08.07.2023 (10 Weeks)
3	Summer Vacation	15.05.2023	27.05.2023 (2 Weeks)
4	First Mid Term Examinations	10.07.2023	15.07.2023 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	22.07.2023	
6	2 nd Spell of Instructions	18.07.2023	11.09.2023 (8 Weeks)
7	Second Mid Term Examinations	12.09.2023	16.09.2023 (1 Week)
8	Preparation Holidays and Practical Examinations	19.09.2023	23.09.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	23.09.2023	
10	End Semester Examinations	25.09.2023	07.10.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 92


24/11/22
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2022-23

B.Tech./B.Pharm. III YEAR I & II SEMESTERS

I SEM

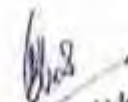
S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork		09.09.2022
2	1 st Spell of Instructions (including Preparation Exams)	09.09.2022	03.10.2022 (1 Week)
3	Preparation Exams	05.10.2022	09.10.2022 (1 Week)
4	First Mid Term Examinations	21.10.2022	27.10.2022 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		31.10.2022
6	2 nd Spell of Instructions	08.11.2022	03.12.2022 (1 Week)
7	Second Mid Term Examinations	14.12.2022	20.12.2022 (1 Week)
8	Preparation Holidays and Practical Examinations	22.01.2023	28.01.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		30.01.2023
10	End Semester Examinations	30.01.2023	11.02.2023 (2 Weeks)

Note: No. of Working/ instructional days: 92

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		13.02.2023
2	1 st Spell of Instructions	13.02.2023	08.04.2023 (2 Weeks)
3	First Mid Term Examinations	10.04.2023	15.04.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		22.04.2023
5	2 nd Spell of Instructions (including Summer Vacation)	17.04.2023	24.06.2023 (10 Weeks)
6	Summer Vacation	15.05.2023	27.05.2023 (2 Weeks)
7	Second Mid Term Examinations	26.06.2023	01.07.2023 (1 Week)
8	Preparation Holidays and Practical Examinations	03.07.2023	08.07.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		08.07.2023
10	End Semester Examinations	10.07.2023	22.07.2023 (2 Weeks)

Note: No. of Working/ instructional days: 90


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Principal
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2022-23

B. Tech./B. Pharm. IV YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	29.08.2022	
2	1 st Spell of Instructions (including Dussehra Recess)	29.08.2022	31.10.2022 (9 Weeks)
3	Dussehra Recess	03.10.2022	08.10.2022 (1 Week)
4	First Mid Term Examinations	01.11.2022	07.11.2022 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	12.11.2022	
6	2 nd Spell of Instructions	09.11.2022	03.01.2023 (8 Weeks)
7	Second Mid Term Examinations	04.01.2023	10.01.2023 (1 Week)
8	Preparation Holidays and Practical Examinations	11.01.2023	19.01.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	17.01.2023	
10	End Semester Examinations	20.01.2023	02.02.2023 (2 Weeks)

Note: No. of Working/Instructional days: 94

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	03.02.2023	
2	1 st Spell of Instructions	03.02.2023	31.03.2023 (8 Weeks)
3	First Mid Term Examinations	01.04.2023	08.04.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	15.04.2023	
5	2 nd Spell of Instructions	10.04.2023	17.06.2023 (10 Weeks)
6	Summer Vacation	15.05.2023	27.05.2023 (2 Weeks)
7	Second Mid Term Examinations	19.06.2023	24.06.2023 (1 Week)
8	Preparation Holidays and Practical Examinations	26.06.2023	01.07.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	01.07.2023	
10	End Semester Examinations	03.07.2023	15.07.2023 (2 Weeks)

Note: No. of Working/ Instructional days: 91

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Bharat Institute of Technology
Mongelpally (V), Ibrahimpatnam (M),
R.R. Dist. - 501 510, Telangana

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2022-23

B. Tech./B. Pharm. IV YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	29.08.2022	
2	1 st Spell of Instructions (including Dussehra Recess)	29.08.2022	31.10.2022 (9 Weeks)
3	Dussehra Recess	03.10.2022	08.10.2022 (1 Week)
4	First Mid Term Examinations	01.11.2022	07.11.2022 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	12.11.2022	
6	2 nd Spell of Instructions	09.11.2022	03.01.2023 (8 Weeks)
7	Second Mid Term Examinations	04.01.2023	10.01.2023 (1 Week)
8	Preparation Holidays and Practical Examinations	11.01.2023	19.01.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	17.01.2023	
10	End Semester Examinations	20.01.2023	02.02.2023 (2 Weeks)

Note: No. of Working/Instructional days: 94

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	03.02.2023	
2	1 st Spell of Instructions	03.02.2023	31.03.2023 (8 Weeks)
3	First Mid Term Examinations	01.04.2023	08.04.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	15.04.2023	
5	2 nd Spell of Instructions	10.04.2023	17.06.2023 (10 Weeks)
6	Summer Vacation	15.05.2023	27.05.2023 (2 Weeks)
7	Second Mid Term Examinations	19.06.2023	24.06.2023 (1 Week)
8	Preparation Holidays and Practical Examinations	26.06.2023	01.07.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	01.07.2023	
10	End Semester Examinations	03.07.2023	15.07.2023 (2 Weeks)

Note: No. of Working/ instructional days: 91


REGISTRAR



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Bharat Institute of Technology
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R.R. Dist - 501 510, Telangana

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2022-23

PHARM. D (REGULAR) AND PHARM.D (PB) 1 YEAR

Pharm. D (Regular) and Pharm. D (PB) 1 Year

S. No	Description	Duration	
		From	To
1	Commencement of classwork / Orientation programme	28.11.2022	
2	1 st Spell of Instructions	28.11.2022	25.02.2023 (13 Weeks)
3	Supplementary Examinations	27.02.2023	04.03.2023 (1 Week)
4	First Mid Term Examinations	06.03.2023	11.03.2023 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	17.03.2023	
6	2 nd Spell of Instructions (including Summer Vacation)	13.03.2023	17.06.2023 (14 Weeks)
7	Summer Vacation	15.05.2023	27.05.2023 (2 Weeks)
8	Second Mid Term Examinations	19.06.2023	24.06.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	01.07.2023	
10	3 rd Spell of Instructions	26.06.2023	16.09.2023 (12 Weeks)
11	Third Mid Term Examinations	19.09.2023	25.09.2023 (1 Week)
12	Preparation / Holidays and Practical Examinations	26.09.2023	09.10.2023 (2 Weeks)
13	Submission of Third Mid Term Exam Marks to the University on or before	03.10.2023	
14	End / Supplementary Examinations	10.10.2023	23.10.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 208


REGISTRAR


PRINCIPAL
Bharat Institute of Technology
Mangalpally (V), Ibrahimpatnam (M),
R.R. Dist - 501 510, Telangana.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2022-23

PHARM.D (REGULAR) AND PHARM.D (PB) II YEAR

Pharm.D (Regular) and Pharm.D (PB) II Year

S. No	Description	Duration	
		From	To
1	Commencement of classwork	31.10.2022	
2	1 st Spell of Instructions	31.10.2022	28.01.2023 (13 Weeks)
3	First Mid Term Examinations	30.01.2023	04.02.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	10.02.2023	
5	2 nd Spell of Instructions	06.02.2023	29.04.2023 (12 Weeks)
6	Supplementary Examinations	13.02.2023	20.02.2023 (1 Week)
7	Second Mid Term Examinations	01.05.2023	06.05.2023 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	12.05.2023	
9	3 rd Spell of Instructions (including Summer Vacation)	08.05.2023	12.08.2023 (14 Weeks)
10	Summer vacation	15.05.2023	27.05.2023 (2 Weeks)
11	Third Mid Term Examinations	14.08.2023	19.08.2023 (1 Week)
12	Preparation Holidays and Practical Examinations	21.08.2023	02.09.2023 (2 Weeks)
13	Submission of Third Mid Term Exam Marks to the University on or before	25.08.2023	
14	End / Supplementary Examinations	04.09.2023	16.09.2023 (2 Weeks)

[Signature]
31/10/22
REGISTRAR

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Bharat Institute of Technology
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2022-23

Pharm. D (Regular) and Pharm. D (PB) III Year

Pharm. D (Regular) III Year

S. No	Description	Duration	
		From	To
1.	Commencement of classwork	05.09.2022	
2.	1 st Spell of Instructions (including Dussehra Recess)	05.09.2022	03.12.2022 (13 Weeks)
3.	Dussehra Recess	03.10.2022	08.10.2022
4.	First Mid Term Examinations	05.12.2022	10.12.2022 (1 Week)
5.	2 nd Spell of Instructions	12.12.2022	04.03.2023 (12 Weeks)
6.	Submission of First Mid Term Exam Marks to the University on or before	17.12.2022	
7.	Supplementary Examinations	19.12.2022	24.12.2022
8.	Second Mid Term Examinations	06.03.2023	11.03.2023 (1 Week)
9.	3 rd Spell of Instructions	13.03.2023	17.06.2023 (14 Weeks)
10.	Submission of Second Mid Term Exam Marks to the University on or before	18.03.2023	
11.	Summer Vacation	15.05.2023	27.05.2023 (2 Weeks)
12.	Third Mid Term Examinations	19.06.2023	24.06.2023 (1 Week)
13.	Preparation Holidays and Practical Examinations	26.06.2023	08.07.2023 (2 Weeks)
14.	Submission of Third Mid Term Exam Marks to the University on or before	01.07.2023	
15.	End / Supplementary Examinations	10.07.2023	22.07.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 204

Pharm.D (PB) III Year

S. No	Description	Duration	
		From	To
1.	Commencement of internship in general ward	05.09.2022	04.03.2023 (6 Months)
2.	Report submission of internship in general ward	06.03.2023	
3.	Commencement of internship in Specialty ward - 1	07.03.2023	06.05.2023 (2 Months)
4.	Report submission of internship in Specialty ward - 1	08.05.2023	
5.	Commencement of internship in Specialty ward - 2	09.05.2023	08.07.2023 (2 Months)
6.	Report submission of internship in Specialty ward - 2	10.07.2023	
7.	Commencement of internship in Specialty ward - 3	11.07.2023	09.09.2023 (2 Months)
8.	Report submission of internship in Specialty ward - 3	11.09.2023	
9.	Final viva of Internship	16.09.2023	

[Signature]
3/9/22
REGISTRAR

PRINCIPAL
Bharat Institute of Technology
Mangalpally (VI), Ibrahimpatnam (M),
R.R. Dist. - 501 510, Telangana.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

REVISED ACADEMIC CALENDAR 2022-23

For All Constituent & Affiliated Colleges of JNTU

Pharm D. (Regular) IV, V & VI Year

Pharm. D. (Regular) IV & V Years

S. No	Description	Duration	
		From	To
1.	Commencement of classwork		04.07.2022
2.	1 st Spell of Instructions	04.07.2022	24.09.2022 (12 Weeks)
3.	First Mid Term Examinations	26.09.2022	01.10.2022 (1 Week)
4.	Dussehra Recess	03.10.2022	08.10.2022 (1 Week)
5.	2 nd Spell of Instructions	10.10.2022	31.12.2022 (12 Weeks)
6.	Submission of First Mid Term Exam Marks to the University on or before		15.10.2022
7.	Supplementary Examinations	19.12.2022	29.12.2022
8.	Second Mid Term Examinations	02.01.2023	07.01.2023 (1 Week)
9.	3 rd Spell of Instructions	09.01.2023	01.04.2023 (12 Weeks)
10.	Submission of Second Mid Term Exam Marks to the University on or before		16.01.2023
11.	Third Mid Term Examinations	03.04.2023	08.04.2023 (1 Week)
12.	Preparation Holidays and Practical Examinations	10.04.2023	22.04.2023 (2 Weeks)
13.	Submission of Third Mid Term Exam Marks to the University on or before		22.04.2023
14.	End / Supplementary Examinations	24.04.2023	06.05.2023 (2 Weeks)
15.	Summer Holidays	08.05.2023	20.05.2023 (2 Weeks)

Pharm. D (Regular) VI Year

S. No	Description	Duration	
		From	To
1	Commencement of internship in General ward	04.07.2022	03.01.2023 (6 Months)
2	Report submission of internship in General ward		04.01.2023
3	Commencement of internship in Specialty ward - 1	05.01.2023	04.03.2023 (2 Months)
4	Report submission of internship in Specialty ward - 1		06.03.2023
5	Commencement of internship in Specialty ward - 2	07.03.2023	06.05.2023 (2 Months)
6	Report submission of internship in Specialty ward - 2		08.05.2023
7	Commencement of internship in Specialty ward - 3	09.05.2023	08.07.2023 (2 Months)
8	Report submission of internship in Specialty ward - 3		10.07.2023
9	Final viva of internship		12.07.2023

[Signature]
REGISTRAR

[Signature]
PRINCIPAL
Bharat Institute of Technology
Mangalagiri (V), Ibrahimpatnam (M),
R.R. Dist. - 501 510, Telangana

WAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2022-23

M.Tech./M.Pharm. I YEAR I & II SEMESTERS

SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork		26.10.2022
2	1 st Spell of Instructions	26.10.2022	20.12.2022 (8 Weeks)
3	First Mid Term Examinations	21.12.2022	28.12.2022 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		04.01.2023
5	2 nd Spell of Instructions	29.12.2022	25.02.2023 (8 Weeks)
6	Second Mid Term Examinations	27.02.2023	04.03.2023 (1 Week)
7	Preparation Holidays and Practical Examinations	06.03.2023	11.03.2023 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		11.03.2023
9	End Semester Examinations	13.03.2023	25.03.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 94

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		27.03.2023
2	1 st Spell of Instructions (including Summer Vacation)	27.03.2023	03.06.2023 (10 Weeks)
3	Summer Vacation	15.05.2023	27.05.2023 (2 Weeks)
4	First Mid Term Examinations	05.06.2023	10.06.2023 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		17.06.2023
6	2 nd Spell of Instructions	12.06.2023	08.08.2023 (8 Weeks)
7	Second Mid Term Examinations	09.08.2023	16.08.2023 (1 Week)
8	Preparation Holidays and Practical Examinations	17.08.2023	23.08.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		23.08.2023
10	End Semester Examinations	24.08.2023	06.09.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 91


22/08/22 REGISTRAR


PRINCIPAL
Bharat Institute of Technology
Mangalagiri (V), Ibrahimpatnam (M),
R.D. Dist - 521 008, Telangana

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2022-23

M. Tech./M. Pharm. II YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork		21.10.2022
2	1 st Spell of Instructions	21.10.2022	15.12.2022 (8 Weeks)
3	Preparation of Project Work Proposals	21.10.2022	17.11.2022 (4 Weeks)
4	Project Work Review -I; (Project Submission & approval)	18.11.2022	24.11.2022 (1 Week)
5	Last date for submission of list of approved PRC-I students from the College to the University Examination branch,		26.11.2022
6	First Mid Term Examinations	16.12.2022	22.12.2022 (1 Week)
7	Submission of First Mid Term Exam Marks to the University on or before		30.12.2022
8	2 nd Spell of Instructions	23.12.2022	16.02.2023 (8 Weeks)
9	Second Mid Term Examinations	17.02.2023	23.02.2023 (1 Week)
10	Preparation Holidays and Practical Examinations	24.02.2023	02.03.2023 (1 Week)
11	Submission of Second Mid Term Exam Marks to the University on or before		01.03.2023
12	End Semester Examinations	03.03.2023	16.03.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 92

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester (Project Work Continuation) (25.11.2022 to 16.03.2023 - 16 weeks)		17.03.2023
2	Project Work Review -II (Phase-I)	17.03.2023	23.03.2023 (1 Week)
3	** Project Work Review -II (Phase-II)	11.04.2023	13.04.2023 (3 days)
4	Last date for submission of PRC-II marks		20.04.2023
5	Project Work Review -III (Phase-I) (24.03.2023 to 26.08.2023 - 22 Weeks)	28.08.2023	02.09.2023 (1 Week)
6	Last date for submission of Project Work Review-III (Phase-I) Marks		09.09.2023
7	* Date of eligibility of Thesis submission		09.09.2023
8	Submission of Thesis and Project Viva-Voce Examination (PRC-III Phase-I)		--
9	** Project Work Review - III (Phase-II) (04.09.2023 to 02.12.2023 - 13 Weeks)	04.12.2023	06.12.2023 (3 days)
10	Last date for submission of Project Work Review -III (Phase-II) Marks		09.12.2023
11	Submission of Thesis and Project Viva-Voce Examination (Phase-II) follows		--

* After completion of 40 weeks from the date of approval of project work proposal until subject to approval of Project Work Review-III.

** Phase-II will be conducted only for unsuccessful students in Phase-I

Note: 1 The unsuccessful students in Project Work Review-II (Phase-II) shall appear for Project Work Review-III at the time of Project Work Review-III. These students shall reappear for Project Work Review-III in the next academic year at the time of Project Work Review -I only after completion of Project Work Review -II, and then Project Work Review -III follows.

2 The Project Viva-Voce External examination Marks must be submitted on the day of examination to the University.

BHARAT INSTITUTE OF TECHNOLOGY

MANGALPALLY, IBRAHIMPATNAM, HYDERABAD

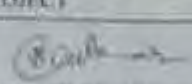

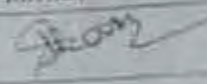
M.Pharmacy I Year II Sem II Mid Examination

Time Table

Date: 07-09-2022

Time: 10:00-12:00 (FN)

2:00-4:00 pm (AN)

Date	Pharmaceutics	Pharmacology	Pharmacy Practice
12/09/22 (FN)	Modern Pharmaceutics-II	Advance Pharmacology-II	Pharmaceuticals-II
13/09/22 (AN)	Advanced Drug Delivery Systems	Pharmacological Screening Methods and Toxicology	CPK TDM
13/09/22 (FN)	Nano Based Drug Delivery System	PEPE	Clinical Research
14/09/22 (AN)	Industrial Pharmacy	PKTDM	Nutraceuticals
16/09/2022	AUDIT COURSE & MINI PROJECT	AUDIT COURSE & MINI PROJECT	AUDIT COURSE & MINI PROJECT
HOD Signature			

14/09/2022: Lab Internals / and 15/09/2022: Lab Externals

Exam Branch I/C

Admin I/C

Academic I/C

MINI PROJECT: Explain work or summary of work. Hard copy submission in spiral binding and presentation will be in PPT.
PPT: 1. Slides not more than 5, 2. 3 bullet points/ slides. Explain orally.

BHARAT INSTITUTE OF TECHNOLOGY Mangalpally (V), Ibrahimpatnam (M), R.R. Dist. Telangana Pharm D PD I yr III Mid Exam

Day	FN (10:00-12:00 pm)
12-09-2022	PT1 & PT2
13-09-2022	PT3
14-09-2022	Hospital Pharmacy
15-09-2022	Clinical Pharmacy
16-09-2022	HSIOM
17-09-2022	HPPK
18-09-2022	Clinical Toxicology

Exam Branch I/C

Admin I/C

Academic I/C

BHARAT INSTITUTIONS
Mangalpally (V), Ibrahimpatnam (M), R. R. District (AP) - 501510
M. PHARMACY MID EXAMINATIONS SCHEDULE

Department of Pharmaceutics

S.No	Date	10:00-11:30Am	12:00-1:30	2:00-3:30pm
1.	04.02.2023	Modern pharmaceutics-I	Applied BPPK	Drug Regulatory Affairs
2.	07.02.2023	Cosmetics and Cosmeceuticals	Research methodology	-----

Department of Pharmaceutical Analysis

S.No	Date	10:00-11:30Am	12:00-1:30	2:00-3:30pm
1.	04.02.2023	Modern Pharmaceutical Analytical Techniques	Pharmaceutical Food Analysis	Drug Regulatory Affairs
2.	07.02.2023	Cosmetics and Cosmeceuticals	Research Methodology & IPR	-----

Department of Pharmacology

S.No	Date	10:00-11:30Am	12:00-1:30	2:00-3:30pm
1.	04.02.2023	Advanced Pharmacology-I	Clinical Pharmacology and Pharmacotherapeutics	Clinical Research and Pharmacovigilance
2.	07.02.2023	Principles of Toxicology	Research Methodology & IPR	-----

Department of Pharmacy practice

S.No	Date	10:00-11:30Am	12:00-1:30	2:00-3:30pm
1.	04.02.2023	Pharmacotherapeutics - I	Clinical Pharmacy Practice	Hospital and Community Pharmacy
2.	07.02.2023	Advances in Preclinical Evaluation	Research Methodology & IPR	-----


PREPARED BY


EXAM BRANCH I/C

ACADEMIC I/C


PRINCIPAL

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
KUKATPALLY - HYDERABAD - 500 085
EXAMINATION BRANCH

TIME-TABLE

PHARM D I-YEAR SUPPLEMENTARY EXAMINATIONS
FEBRUARY/MARCH -2023

Time: 10.00 AM to 01.00 PM

DATE & DAY	SUBJECTS
27-02-2023 MONDAY	HUMAN ANATOMY AND PHYSIOLOGY
28-02-2023 TUESDAY	PHARMACEUTICS
01-03-2023 WEDNESDAY	MEDICINAL BIOCHEMISTRY
02-03-2023 THURSDAY	PHARMACEUTICAL ORGANIC CHEMISTRY
03-03-2023 FRIDAY	PHARMACEUTICAL INORGANIC CHEMISTRY
04-03-2023 SATURDAY	REMEDIAL MATHEMATICS / BIOLOGY

NOTE: ANY CLASHES / OMISSIONS IN THIS TIME-TABLE MAY BE
BROUGHT TO THE NOTICE OF THE UNDERSIGNED.

Dr: 28-01-2023

Sd/-
CONTROLLER OF EXAMINATIONS

THE UNIVERSITY OF HYDERABAD, HYDERABAD, TELANGANA, INDIA. (U) ALREADY PAID. FOR DETAILS OF SUBSTITUTE SUBJECTS WITH THE COMMUNICATIONS RECEIVED FROM THE DIRECTOR OF

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY HYDERABAD-500085

EXAMINATION BRANCH

M. PHARM - I YEAR - I SEMESTER - R19 REGULATION - SUPPLEMENTARY EXAMINATIONS MARCH-2023

TIME TABLE

TIME: 10:00 AM TO 01:00 PM

COURSE	13-03-2023 MONDAY	14-03-2023 TUESDAY	15-03-2023 WEDNESDAY	16-03-2023 THURSDAY	17-03-2023 FRIDAY	18-03-2023 SATURDAY	19-03-2023 SUNDAY
PHARMACEUTICAL CHEMISTRY-I		Advanced Pharmacology - I	Clinical Pharmacology and Pharmacotherapeutics	Elective-I Principles of Drug Discovery Clinical Research and Pharmacovigilance	Elective-II Animal cell cultures and applications Molecular Biology Principles of Toxicology	MC Research Methodology and IPR	Elective-I Pharmacokinetics and Drug Metabolism
PHARMACEUTICAL CHEMISTRY-II	Advanced Organic Chemistry-I	Advanced Inorganic Chemistry-I		Elective-I Modern Pharmaceutical Analytical Techniques Chemistry of Natural Products	Elective-II Drug Regulatory Affairs	MC Research Methodology and IPR	Elective-II Drug Discovery & Design Pharmaceuticals and Food Analysis Spectral Analysis
PHARMACEUTICAL CHEMISTRY-III	Elective-I Advanced Physical Pharmaceutics	Modern Pharmacology - II	Applied Biopharmaceutics and Pharmacokinetics	Elective-III Pharmaceutical Validation	Elective-IV Drug Regulatory Affairs Total Quality Management	MC Research Methodology and IPR	Elective-III Schedules and Concomitant Stability of Drugs and Dosage Forms
PHARMACOGNOSY-I	Phytochemistry	Elective-I Pharmaceutical Food Analysis	Advanced Pharmacognosy-I	Elective-I Modern Pharmaceutical Analytical Techniques	Elective-II Drug Regulatory Affairs	MC Research Methodology and IPR	Elective-II Industrial Pharmacognosy Technology Animal Cell Cultures and Applications Cosmetics and Cosmeceuticals

DATE: _____

Sd/
CONTROLLER OF EXAMINATIONS

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUNATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

M. PHARM. I YEAR - II SEMESTER - R19 REGULATION-SUPPLEMENTARY EXAMINATIONS MARCH-2023

T I M E T A B L E

TIME: 10:00 AM TO 01:00 PM

Sl. No.	14-03-2023 TUESDAY	15-03-2023 THURSDAY	16-03-2023 SATURDAY	17-03-2023 TUESDAY	18-03-2023 FRIDAY	19-03-2023 MONDAY
PHARMACEUTICAL ANALYSIS - I	ADVANCED INSTRUMENTAL ANALYSIS	E3 HERBAL COSMETICS PHARMACEUTICAL VALIDATION	E3 PHARMACOEPIDEMOLOGY AND PHARMACOECONOMICS	E4 ADVANCED INSTRUMENTAL ANALYSIS II NUTRACEUTICALS CLINICAL RESEARCH AND PHARMACOVIGILANCE	MODERN BIO ANALYTICAL TECHNIQUES	
PHARMACEUTICAL REGULATORY AFFAIRS - I	REGULATORY ASPECTS OF MEDICAL DEVICES	REGULATORY ASPECTS OF HERBALS AND BIOLOGICALS	E4 ADVANCED DRUG DELIVERY SYSTEMS	E4 NUTRACEUTICALS CLINICAL RESEARCH AND PHARMACOVIGILANCE		E3 NANO BASED DRUG DELIVERY SYSTEMS REGULATORY ASPECTS OF FOOD AND NUTRACEUTICALS BIOSTATISTICS AND RESEARCH METHODOLOGY

DATE: 27/02/2023

Sd/
CONTROLLER OF EXAMINATIONS

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

M. PHARM – II YEAR I SEMESTER -R19 REGULATION -REGULAR/SUPPLEMENTARY EXAMINATIONS MARCH-2023

TIMETABLE

TIME : 2:00 PM TO 5:00 PM

COURSE	17-03-2023 MONDAY	18-03-2023 WEDNESDAY
PHARMACEUTICAL REGULATORY AFFAIRS -13	ELECTIVE -Y	OPEN ELECTIVE
	Analytical Method validation	Screening methods in pharmacology
	Pharmaceutical Industry Management	Entrepreneurship Management
	Pharmaceutical Production technology	Cosmetic science
PHARMACEUTICAL QUALITY ASSURANCE -14	ELECTIVE -Z	Hazards and Safety management
	Biostatistics	Audits and regulatory compliance
	Scale up and Technology Transfer	OPEN ELECTIVE
	Production Area Design and Packaging Development	Entrepreneurship Management
		Cosmetic Science
PHARMACY PRACTICE -15	ELECTIVE -V	Nutraceuticals
	Biostatistics	Nano based Drug Delivery Systems
	Phytopharmaceuticals	Pharmacoeconomics and Pharmacoeconomics
	Pharmacoeconomics and Pharmacoeconomics	OPEN ELECTIVE
		Cosmetology
		Pharmaceutical Administration
		Hazards and Safety management
		Project Management
		Audits and regulatory compliance

DATE: 27/02/2023

50/

CONTROLLER OF EXAMINATIONS

NOTE:

- (i) ANY OMISSION OR ERROR IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY
- (ii) IN CASE OF GOVERNMENT DECLARED HOLIDAY ON ANY OF THE ABOVE DATES THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

M. PHARM – II YEAR I SEMESTER -R19 REGULATION -REGULAR/SUPPLEMENTARY EXAMINATIONS MARCH-2023

T I M E T A B L E

TIME - 2:00 PM TO 5:00 PM

COURSE	14-03-2023 MONDAY	15-03-2023 WEDNESDAY
INDUSTRIAL PHARMACY-08	ELECTIVE -V	OPEN ELECTIVE
	Biostatistics	Screening methods in pharmacology
	Scale up and Technology Transfer	Entrepreneurship Management
	Production area, Design and Packaging Development	Cosmetic science
PHARMACEUTICAL TECHNOLOGY -09	ELECTIVE -V	Hazards and Safety management
	Biostatistics	Audits and regulatory compliance
	Scale up and Technology Transfer	OPEN ELECTIVE
	Production area, Design and Packaging Development	Screening methods in pharmacology
PHARMACEUTICAL ANALYSIS -12	ELECTIVE -U	Entrepreneurship Management
	Biostatistics	Cosmetic science
	Scale up and Technology Transfer	Hazards and Safety management
	Production Area Design and Packaging Development	Audits and regulatory compliance

DATE: 2/10/2023

59/

CONTROLLER OF EXAMINATIONS

BHARAT INSTITUTE OF TECHNOLOGY

MANGALPALLY, IBRAHIMPATNAM, HYDERABAD

IV YR PHARM D III MID EXAMINATION 2023

ATTENDANCE SHEET

Subject: CT Clinical Toxicology

Sl. No.	Hall Ticket No.	Name	Signature
1.	19171T0001	Darni Privalika	<i>Privalika</i>
2.	19171T0002	Dasari Anulya	<i>Anulya</i>
3.	19171T0003	Dasari Preethi	<i>Preethi</i>
4.	19171T0004	Dhudekula Razak	<i>Razak</i>
5.	19171T0005	Elmati Sathithi Reddy	<i>Sathithi</i>
6.	19171T0006	Gondi Sathivika	<i>Sathivika</i>
7.	19171T0007	Jap Om Prakash Reddy	<i>Om Prakash</i>
8.	19171T0008	Kamiseti Gagan Deep	<i>Gagan Deep</i>
9.	19171T0009	Kasani Samhitha	<i>Samhitha</i>
10.	19171T0010	Kibriya Kulsum	<i>Kulsum</i>
11.	19171T0011	Madugula Akshitha	<i>Akshitha</i>
12.	19171T0012	Madupathi Manasa	<i>Manasa</i>
13.	19171T0013	Mekala Sivathi Kiran	<i>Sivathi Kiran</i>
14.	19171T0014	Mogutal Sandhya Rani	<i>Sandhya Rani</i>
15.	19171T0015	Mohd Saleem	<i>Saleem</i>
16.	19171T0016	Nallipogu Sai Tulasi	<i>Sai Tulasi</i>
17.	19171T0017	Nerella Manoj	<i>Manoj</i>
18.	19171T0018	Pailla Sampath Reddy	<i>Sampath Reddy</i>
19.	19171T0019	Patnam Shetty Sowmya	<i>Sowmya</i>
20.	19171T0020	Polamuri Havila	<i>Havila</i>
21.	19171T0021	P. N. Sri Krishna Sharma	<i>Sri Krishna Sharma</i>
22.	19171T0022	Sabharwal Dhanya	<i>Dhanya</i>
23.	19171T0023	Sulthan Chakravarthi	<i>Chakravarthi</i>
24.	19171T0024	Sura Sindhuja	<i>Sindhuja</i>
25.	19171T0025	Thota Nitha	<i>Nitha</i>
26.	19171T0026	Aneesh Bagelkar	<i>Bagelkar</i>

No. of Students: 26

No of Absentees: 01

No of Presentees: 25

Signature of Invigilator

BHARAT INSTITUTE OF TECHNOLOGY
MANGALPALLY (TIRUPATI) HYDERABAD

B. PHARM I YR I SEM MID-EXAMINATION, -2023
ATTENDANCE SHEET

Subject: *P. Analysis*

SEC-B

Sl. No.	Hall Ticket No	Name	Signature
1	22171R0054	K. S. M. MALLA VINOD	<i>K. S. M. Malla</i>
2	22171R0055	K. S. M. HETPALLI	<i>K. S. M. H. H. H.</i>
3	22171R0056	K. S. M. ARAVINDA	<i>K. S. M. Aravinda</i>
4	22171R0057	K. S. M. ANRITHA	<i>K. S. M. Anritha</i>
5	22171R0058	K. S. M. BRILATHA	<i>K. S. M. Brilatha</i>
6	22171R0059	K. S. M. ARUNTHA	<i>K. S. M. Aruntha</i>
7	22171R0060	K. S. M. KARTHIK	<i>K. S. M. Kartik</i>
8	22171R0061	K. S. M. MADHUR	<i>K. S. M. Madhur</i>
9	22171R0062	K. S. M. JAYANTH	<i>K. S. M. Jayanth</i>
10	22171R0063	K. S. M. SAIKUMAR	<i>K. S. M. Saikumar</i>
11	22171R0064	K. S. M. SUPRIYA	<i>K. S. M. Supriya</i>
12	22171R0065	K. S. M. ADIL	<i>K. S. M. Adil</i>
13	22171R0066	K. S. M. ALI BEG	<i>K. S. M. Ali Beg</i>
14	22171R0067	K. S. M. KRANTHI KUMAR	<i>K. S. M. Kranthi Kumar</i>
15	22171R0068	K. S. M. HARSHITHA	<i>K. S. M. Harshitha</i>
16	22171R0069	K. S. M. SRICHANDANA	<i>K. S. M. Srichandana</i>
17	22171R0070	K. S. M. RAVIRAJA	<i>K. S. M. Raviraja</i>
18	22171R0071	K. S. M. VIJAY KUMAR	<i>K. S. M. Vijay Kumar</i>
19	22171R0072	K. S. M. NARESH	<i>K. S. M. Naresh</i>
20	22171R0073	K. S. M. LAKSHITHA	<i>K. S. M. Lakshitha</i>
21	22171R0074	K. S. M. TEJASWINI	<i>K. S. M. Tejaswini</i>
22	22171R0075	K. S. M. VINAYASREE	<i>K. S. M. Vinayasree</i>
23	22171R0076	K. S. M. VIVEK	<i>K. S. M. Vivek</i>
24	22171R0077	K. S. M. RISHITH	<i>K. S. M. Rishith</i>
25	22171R0078	K. S. M. RAMYASRI	<i>K. S. M. Ramyasri</i>
26	22171R0079	K. S. M. KARUNA	<i>K. S. M. Karuna</i>
27	22171R0080	K. S. M. VAMSHIKA	<i>K. S. M. Vamshika</i>
28	22171R0081	K. S. M. PAVANI	<i>K. S. M. Pavani</i>
29	22171R0082	K. S. M. VARSHINI	<i>K. S. M. Varshini</i>
30	22171R0083	K. S. M. REJESHWARI	<i>K. S. M. Rejeshwari</i>
31	22171R0084	K. S. M. SWATHI	<i>K. S. M. Swathi</i>
32	22171R0085	K. S. M. KAVYA	<i>K. S. M. Kavya</i>
33	22171R0086	K. S. M. NEHA	<i>K. S. M. Neha</i>
34	22171R0087	K. S. M. SABA BEGUM	<i>K. S. M. Saba Begum</i>
35	22171R0088	K. S. M. SANDHARSHEK RAVI	<i>K. S. M. Sandharshek Ravi</i>
36	22171R0089	K. S. M. PRASANNA	<i>K. S. M. Prasanna</i>
37	22171R0090	K. S. M. MADHURI	<i>K. S. M. Madhuri</i>
38	22171R0091	K. S. M. NIHARIKA	<i>K. S. M. Niharika</i>
39	22171R0092	K. S. M. SHIVAKUMAR	<i>K. S. M. Shivakumar</i>
40	22171R0093	K. S. M. SHIVA KUMAR	<i>K. S. M. Shiva Kumar</i>
41	22171R0094	K. S. M. JASHWANTH	<i>K. S. M. Jashwanth</i>

Chimbinde (22171R0054)

42.	22171R0095	TALARI KEERTHANA	
43.	22171R0096	THALLA JAGAN MOHAN	
44.	22171R0097	THAMMAREDDY SHIVANI	
45.	22171R0098	THONILA VENKATA	
46.	22171R0099	THONILA SRINIVASA	
47.	22171R00A0	THUMMA KEERTHI	
48.	22171R00A1	UDARI SWATHI YADAV	
49.	22171R00A2	VADTHYAVATH GAYATHRI	
50.	22171R00A3	VANGALA DIVYA	
51.	22171R00A4	VANJARI KAMALAKAR	
52.	22171R00A5	VEERAMALLA PRANAY	
53.	22171R00A6	VUDUTHALA SHREYA	

Presentees: 52

Absentees: 1

Total no of Students: 53

Signature of Invigilators: 1. *[Signature]*

BHARAT INSTITUTE OF TECHNOLOGY
MANGALPALLY, IBRAHIMPATNAM, HYDERABAD

II YR I SEM I MID M. PHARMACY EXAMINATION, 2023
ATTENDANCE SHEET

Department of Pharmacology

SUB:

Drug Regulatory Affairs

S.no	Hall ticket number	Name of the student	Signature
1.	2117IS0101	BAIRI RAKESH	<i>[Signature]</i>
2.	2117IS0102	CB GANESH REDDY	<i>Ab</i>
3.	2117IS0103	DASARIKONDA MOUNIKA	<i>Ab</i>
4.	2117IS0104	DASARI SHIVA	<i>Ab</i>
5.	2117IS0105	EDULAKANTI BHAVANA	<i>[Signature]</i>
6.	2117IS0106	GONE MEGHANA	<i>Ab</i>
7.	2117IS0107	GALLA PAVAN BHARGAVI	<i>[Signature]</i>
8.	2117IS0108	KASARAPU PRIYANANDIN	<i>K. priyanandin</i>
9.	2117IS0109	SRIPALLY DEEPIKA	<i>[Signature]</i>
10.	2117IS0110	V BINDHU	<i>Ab</i>

Total no of Students: 10

Presentees: 05

Absentees: 05

Invigilator Signature(s):

[Signature]

BHARAT INSTITUTE OF TECHNOLOGY

MANGALPALLY, IBRAHIMPATNAM, HYDERABAD

II YR I SEM I MID M. PHARMACY EXAMINATION, 2023
MARKS SHEET

Department of Pharmacology

SUB: *Drug Regulatory Affairs*

S.no	Hall ticket number	Name of the student	Marks
1.	2117IS0101	BAIRI RAKESH	21
2.	2117IS0102	CB GANESH REDDY	<i>Ab</i>
3.	2117IS0103	DASARIKONDA MOUNIKA	<i>Ab</i>
4.	2117IS0104	DASARI SHIVA	<i>Ab</i>
5.	2117IS0105	EDULAKANTI BHAVANA	22
6.	2117IS0106	GONE MEGHANA	<i>Ab</i>
7.	2117IS0107	GALLA PAVAN BHARGAVI	21
8.	2117IS0108	KASARAPU PRIYANANDIN	21
9.	2117IS0109	SRIPALLY DEEPIKA	18
10.	2117IS0110	V BINDHU	<i>Ab</i>

Total no of Students: 10

Presentees: 05

Absentees: 05

[Signature]



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
HYDERABAD-500085

BHARAT INSITUTUTE OF TECHNOLOGY(17)
B.Pharmacy - R17 - III Year - I Semester
B.Pharmacy

University Mid-2 Internal Marks Report-Date- 2023-01-28 12:22:51

HTNO	245AA	245AB	245AC	245AD	245AH
20171R0001	22	21	23	18	19
20171R0002	23	22	24	21	15
20171R0003	23	21	24	19	17
20171R0004	23	24	22	21	22
20171R0005	12	5	12	12	9
20171R0006	14	19	20	18	16
20171R0007	24	25	24	23	23
20171R0008	19	18	23	12	15
20171R0009	-1	-1	-1	-1	5
20171R0010	19	17	23	13	16
20171R0011	22	24	24	21	17
20171R0012	21	24	23	21	19
20171R0013	21	15	23	13	18
20171R0014	24	25	23	22	21
20171R0015	22	24	24	22	23
20171R0016	23	20	22	22	17
20171R0017	21	17	23	21	17
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20171R0019	22	21	23	22	22
20171R0021	23	22	24	22	21
20171R0022	22	23	24	19	21
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20171R0025	23	16	22	21	20
20171R0026	17	15	12	18	12
20171R0027	16	15	18	12	14
20171R0028	24	22	24	21	19
20171R0029	17	20	19	21	20
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20171R0031	18	13	19	16	17
20171R0032	23	22	22	20	22
20171R0033	23	24	22	21	17
20171R0034	22	20	23	20	17

HTNO	245AA	245AB	245AC	245AD	245AH
20171R0035	23	16	24	20	13
20171R0036	17	6	15	14	14
20171R0037	23	12	21	20	15
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20171R0042	21	20	20	21	13
20171R0043	22	24	24	22	21
20171R0044	23	23	23	21	19
20171R0045	5	5	5	5	5
20171R0046	20	18	23	21	19
20171R0047	22	21	22	22	18
20171R0048	19	14	15	20	10
20171R0049	19	22	21	17	17
20171R0050	21	24	24	20	19
20171R0051	17	12	13	19	16
20171R0052	21	19	17	19	16
20171R0053	19	21	23	22	16
20171R0055	25	25	24	22	22
20171R0056	22	21	24	22	21
20171R0057	22	19	23	17	19
20171R0058	24	21	23	21	18
20171R0059	23	25	24	21	23
20171R0060	20	14	19	20	20
20171R0061	23	18	24	22	21
20171R0062	22	21	23	20	19
20171R0063	20	20	21	22	22
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20171R0065	22	24	22	19	21
20171R0066	18	16	19	21	12
20171R0067	23	21	21	20	20
20171R0069	18	19	17	20	12
20171R0070	-1	-1	-1	-1	-1
20171R0071	21	19	19	17	17
20171R0072	22	17	16	20	16
20171R0073	22	22	16	21	16
20171R0075	18	13	13	20	16
20171R0076	12	12	16	20	14
20171R0077	20	20	19	19	18
20171R0078	22	16	20	20	18
20171R0079	21	16	24	19	21
20171R0080	18	12	16	14	13
20171R0081	20	16	20	19	21
20171R0082	23	22	24	22	21
20171R0083	19	12	19	16	15

HTNO	245AA	245AB	245AC	245AD	245AH
20171R0084	21	16	24	20	23
20171R0085	19	17	18	20	17
20171R0086	19	2	16	16	12
20171R0087	22	16	17	21	19
20171R0088	12	5	21	20	17
20171R0089	18	14	23	16	16
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20171R0091	23	24	24	22	21
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20171R0093	23	20	21	19	17
20171R0094	22	20	21	16	18
20171R0095	24	20	20	21	20
20171R0096	21	23	23	19	20
20171R0097	23	22	23	21	19
20171R0098	23	18	24	21	19
20171R0099	21	22	22	22	20

Note : '-1' Indicates Student is Absent for the exam.

Subject Code	Subject Name
245AH	COSMETIC SCIENCE
245AA	MEDICINAL CHEMISTRY II
245AC	PHARMACOLOGY II
245AB	INDUSTRIAL PHARMACY I
245AD	PHARMACOGNOSY AND PHYTOCHEMISTRY II

Signature Of Principal with Date & Office seal

PRINCIPAL
Bharat Institute of Technology
 Mengalpally (V), Ibrahimpetnam (M),
 R.R. Dist - 501 510. Telangana.



WAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD, HYDERABAD-500085
BHARAT INSITUTUTE OF TECHNOLOGY(17)

University External Exam Final Award List

M.Pharmacy R22-I Year I Semester Regular

PHARMACEUTICS,SECTION-A

MODERN PHARMACEUTICS I LAB (680302)

Maxmimum Marks: 75

Date: 2023-03-10 12.03.07

S.No	HTNO	MARKS AWARDED
1	22171S0301	68
2	22171S0302	70
3	22171S0303	66
4	22171S0304	70
5	22171S0305	68
6	22171S0306	69

Signature of External Examiner

Signature of Internal Examiner

Signature of The Principal With Date & Office Seal

PRINCIPAL
Bharat Institute of Technology
Mangalpally (V), Ibrahimpatnam (M...
R.R. Dist - 501 510, Telangana



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD, HYDERABAD-500085

BHARAT INSITUTUTE OF TECHNOLOGY(17)

University External Exam Final Award List

M.Pharmacy R22-I Year I Semester Regular

PHARMACEUTICAL ANALYSIS,SECTION-A

PHARMACEUTICAL FOOD ANALYSIS LAB (681202)

Maximum Marks: 75

Date: 2023-03-09 11.44.58

S.No	HTNO	MARKS AWARDED
1	22171S1201	72

Signature of External Examiner

Signature of Internal Examiner

Signature of The Principal With Date & Office Seal

Principal
Bharat Institute of Technology
Madhapally (V),
Gachibowli (M), R R Co



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD, HYDERABAD-500085
BHARAT INSITUTUTE OF TECHNOLOGY(17)

University External Exam Final Award List

M.Pharmacy R22-4 Year / Semester Regular

PHARMACEUTICAL ANALYSIS,SECTION-A

MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES LAB (681201)

Maximum Marks: 75

Date: 2023-03-09 11:44:47

S.No	HTNO	MARKS AWARDED
1	22171S1201	71

Signature of External Examiner

Signature of Internal Examiner

Signature of The Principal With Date & Office Seal

Bharat Institute of Technology
Madhapally (V).
Medchal Mandal, Ranga Reddy District, Telangana



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD, HYDERABAD-500085

BHARAT INST. OF TECH. PHARMA(17)

University External Exam Award List

R08- II Year Pharm.D

PHARMACOTHERAPEUTICS I LAB (PH209)

Maximum Marks: 70

Date: 2023-02-04 14:05:23

S.No	HTNO	MARKS AWARDED
1	19171T0023	57
2	20171T0010	57
3	20171T0014	58
4	20171T0015	59
5	20171T0024	60
6	20171T0026	60

Signature of External Examiner

Signature of Internal Examiner

Signature of The Principal With Official Seal

Bharat Institute of Technology
Mangalpally (V), Ibrahimpatnam (M),
R.R. Dist - 501 513, Telangana.



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD, HYDERABAD-500085

BHARAT INST. OF TECH. PHARMA(17)

University External Exam Award List

R08- II Year Pharm.D

PHARMACOGNOSY & PHYTOPHARMACEUTICALS LAB (PH208)

Maximum Marks: 70

Date: 2023-02-04 14.05.15

S.No	HTNO	MARKS AWARDED
1	15171T0028	67
2	20171T0024	61

Aysha Siddique
Signature of External Examiner
11/2/23

[Signature]
Signature of Internal Examiner

[Signature]
Signature of The Principal
Official Seal
Bharat Institute of Technology
Mangalpally (V), Ibrahimpatnam (M),
R.R. Dist - 501 510, Telangana.



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
HYDERABAD-500085

BHARAT INST. OF TECH. PHARMA(17)
Pharm.D - R08 - IV Year

University Mid-2 Internal Marks Report-Date- 2023-04-21 23.30.48

HTNO	PD401	PD402	PD403	PD404	PD405	PD406
19171T0001	15	29	25	28	15	28
19171T0002	28	15	23	30	27	27
19171T0003	24	16	28	15	28	20
19171T0004	20	28	23	22	27	19
19171T0005	28	15	27	27	28	25
19171T0006	28	15	22	27	28	24
19171T0007	24	27	16	18	27	19
19171T0008	19	27	15	23	27	19
19171T0010	29	20	28	26	19	20
19171T0011	28	29	28	19	28	27
19171T0012	28	28	27	15	28	26
19171T0013	27	28	27	14	27	26
19171T0014	28	29	26	30	28	27
19171T0015	23	27	22	24	27	24
19171T0016	28	28	28	22	27	24
19171T0017	21	28	23	29	28	24
19171T0018	24	28	21	26	27	23
19171T0019	27	28	23	22	29	27
19171T0020	28	29	27	23	27	24
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19171T0023	20	27	17	15	27	17
19171T0024	28	27	23	27	27	28
19171T0025	29	15	27	30	29	27
19171T0026	25	28	27	27	27	24

Note: '-1' Indicates Student is Absent for the exam.

Subject Code	Subject Name
PD406	CLINICAL TOXICOLOGY
PD405	BIOPHARMACEUTICS & PHARMACOKINETICS

PD404	BIostatISTICS & RESEARCH METHODOLOGY
PD403	CLINICAL PHARMACY
PD402	HOSPITAL PHARMACY
PD401	PHARMACOTHERAPEUTICS III

Signature _____ Date & Office seal

[Handwritten signature]
 Assistant Lecturer
 Madhavapalle
 Chaitanyaiah P.D. D. S.



BHARAT INSTITUTE OF TECHNOLOGY

(Approved by PCI & AICTE, Affiliated to JNTUH)
Mangalpally (V), Thrashinapatnam (M), R.R. Dist - 501 510.

MID Exam No.: 01
Date: 30/01/2023
Branch: B. Pharm
Year: 1st year

Main Answer Book

Roll No.: 2214100003
Subject: Pharmaceutical Analysis
No. of Additional: 03

Signature of Investigator with Date

II.

3. Standardization of Oxalic Acid.

The Oxalic acid belongs to the 1st standard. so, we don't need to detect. To prepare a 1st standard we have to use standard properties.

Due to it belongs to standard 1. it has its properties like weight, purity -



Preparation of Oxalic Acid.

→ the molecular weight of oxalic acid is 126 gm.

→ To prepare 0.1 M we have take 63 gm of oxalic acid and mix it with distilled water and make it up to 1000 ml (1 liter).

→ for the preparation of oxalic acid we need NaOH solution.

The molecular weight of NaOH = 40 gm.

Atomic - 41 gm

→ To prepare 0.1 M we have to dissolve it in 1 liter of distilled water.

→ Now take the oxalic acid in conical flask and

→ And take NaOH solution in Burette and titrate the solution

→ It forms the ^{pale} pink colour as its end point below the 10 ml in the burette.

→ Now add phenolphthalein indicator in of 2 to 3 drops in to conical flask.

→ then the pale pink colour turns into colourless, for the molecular ml we get 204.24 ml .

$$\text{for } 0.1 \text{ we will get } \frac{204.24}{0.1} = 2042.4 \text{ ml}$$

4. Theories of Acid Base titration.

I. Arrhenius theory

II. Lewis theory

III. Bronstead & Lewis theory

IV. Lux - flood theory

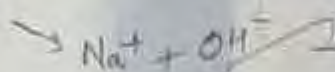
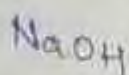
1. Arrhenius theory :-

→ It is discovered by Salve Arrhenius in the year 1884

→ According to his theory,

when the Acid and Base treated with water & dissolve in water, the Acid get H^+ ions and Base OH^- ions





Base

Limitations:

- Arrhenius theory just tells about when it reacts with water.
- And all the bases doesn't consist of OH^- ions.
- examples - NH_3

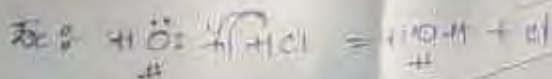
Lewis theory:

- It is discovered in 1930 by P. M. Lewis
- This theory depends upon the Acids & Bases.
- According to this theory
- All the acids are the electron acceptors
- All the bases are the electron donors
- The electron from the base are accepted by the acidic and form a complex or coordination

Ex:

Advantages:

- It also describes about the Brønsted and Lewis theory also.
- It also describes about the acid & base reactions



III, Bronstead and Lowery Theory:

→ It is discovered in 1923

According to this theory,

The Acid donates the proton

The Base accept the proton

Hence they form a complex

So, the acid donates the proton to and base accept that proton.

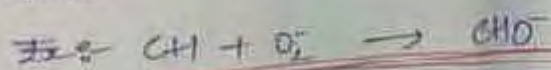


IV, Lux - Flood theory

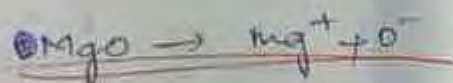
In the year 1923 lux discovered it & in year flood discovered it in 1947

→ This theory based on the Oxalic acid oxide ion

→ The Acid will accept the Oxalic acid and form acids



→ The bases will divided and separate from them



III, Bronstead and Lowery Theory Advantages :-

1. It is superior to the Arrhenius theory

2. It is not compatible with water

3. All Acids & Bases does not donate the H^+ & OH^-

I.

2. Non-aqueous Titrations

Types of Non-aqueous Titrations

i) Protogenic

- It donates the proton
- It is acidic in nature

Examples: H_2SO_4 , CH_3COOH

ii) Protophilic

- Accept the protons
- It is basic in nature
- Example → Ammonia, Ketone

iii) Amphiprotic

- It accept & donate the protons
- It involves both protogenic & protophilic solvents
- Ex: Glacial Acetic Acid, DMF, Alcohol.



BHARAT INSTITUTE OF TECHNOLOGY

Ibrahimpatnam - 501 510, Secunderabad.

www.bipharmacy.org

PART A

22171R0003

1st year

Objectives

Fill in the blanks

1x10=10 Marks

10

1. Accuracy: ~~It is classification of true value.~~
2. Precision: Repeating values.
3. Leveling effect: It abstracts acid from the substance it is called Basic acid strongly
4. Absolute error is difference between observed value and true value.
a) Absolute error b. Relative error c. Random error d. None of the above
5. Curve showing pH changes at different stages of reaction:
a) Neutralization curve b. Both a and b c. Both a and b d. None of the above
6. Normality: No. of gram Equivalent of solute / present in 1 litre of solvent
7. Molarity: No. of moles of the solute / total no. of moles present per 1 L of.
8. According to Lewis theory Acid is a Electron pair acceptor
a. Proton donor b. Proton acceptor c. Electron pair donor d. Electron pair acceptor
9. Dissociation constant of acid $K_a = \frac{(H^+)(A^-)}{(HA)}$
10. Dissociation constant of base $K_b = \frac{OH^-/B}{HB}$



BHARAT INSTITUTE OF TECHNOLOGY

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Mangalpally (V), Ibrahimpatnam (M), R.R. Dist. - 501 510.

Main Answer Book

MID Exam No.: 3

Date : 2/4/23

Branch : PharmD

Year : 4th year.

Roll No.: 191710002

Subject : CT

No. of Additional: 7

Signature of Investigator with Date

99

5)

Antidepressant poisoning.

Tricyclic antidepressants

- largest group of drugs agent → used for treatment of Depression.
- Toxicity occurs due to rapid absorption, tight binding to proteins, low therapeutic margins

Types:

Secondary amines: amoxapine

Tertiary amines: doxepine

Tricyclic: maprotiline

Triazolopyridine: trazodone

Signs & symptoms:

neurological system: respiratory depression, seizure

Cardiovascular system: cardiac arrest, blurred hypotension

anticholinergic system: Blurred vision

withdrawal symptoms: Anxiety, nausea, vomiting

Decreases TCA absorption -

IPERAC and gastric lavage within 8 hours
activated charcoal

Increases TCA elimination.

multiple doses of activated charcoal.



Convulsions: diazepam

Seizures: benzodiazepines.



Arrhythmias.

Tachycardia: lignocaine

Tachycardia fibrillation: adrenaline, lignocaine



Antidote: Anti-meprobamate antibodies

Titration of fab TCA monoclonal antibodies.

Combination of fab TCA monoclonal antibodies +
Sodium carbonate



Mechanism of action:

4)

BENZODIAZEPINES.

- ⇒ Benzodiazepines are anxiolytic and hypnotic agents.
- ⇒ wide therapeutic index.
- ⇒ Benzodiazepines are safest of all sedative drugs.

Classification

- 1) Hypnotic agents.
- 2) Antianxiety drugs.
- 3) Anticonvulsant drugs.

Hypnotic agents

- 1) diazepam
- 2) alprazolam
- 3) flurozepam
- 4) Nitrozepam
- 5) Temazepam.

Antianxiety drug

- 1) diazepam
- 2) alprazolam
- 3) lorazepam
- 4) oxazepam

Anticonvulsant drugs

- 1) diazepam
- 2) lorazepam
- 3) clonazepam
- 4) clobazepam

Mechanism of action

Barbiturates stimulates the GABA-Receptor.



opening up chloride ion channels in receptor complex



increased chloride ion conduction across cell membrane of nerve.



decreases potential difference between ~~interior~~ and exterior of the cell.



blocking the ability of cell to conduct nerve impulses

Adverse effects



restlessness

hallucinations.

agitation

psychosis

Signs & symptoms of acute poisoning

Mild ∴ Drowsiness, weakness.

moderate ∴ Coma, vertigo, slurred speech.

Coma (Stage 1) ∴ responsive to pain stimuli

no disturbance in respiration.

Coma (Stage 2) ∴

no response to pain stimuli.

no ~~dist~~ disturbance in respiration.

Treatment

life supportive
measures / specific
treatment.

- ABC analysis
(airway, Breathing, Circulation)
- intravenous fluids administration
 - endotracheal intubation.
 - supplemental oxygen
 - Assisted ventilation.

Antidote

→ gut decontamination within
6 hours.

activated charcoal.

emesis is contraindicated.

IV fluids.

along with IV fluids, for
hypotension dopamine is used

Antidote

(flumazenil).

flumazenil → reverse the coma
that is induced by
benzodiazepines.

MOA: pure competitive
antagonism.

It's reverses the all effects
that is produced by benzodiazepines
with total slow IV of 1mg of
flumazenil.

Reversal occur within
2 hours.

VENOMOUS ARACHNIDS: Arachnids differ from insects mainly in the no. of legs.

Arachnids have 8 legs.
Insects : 6 legs.

Scorpion: Scorpions have ability to inflictive stings and sometimes fatal stings.

Total 650 species of scorpions present which are divided into 6 families.

Mode of action: they seek under moist and cool areas.

Scorpion venom effects sodium channels and prolongation of action potentials and simultaneous depolarization of nerves of adrenergic and para sympathetic nervous system.

adrenergic and para sympathetic nervous symptoms occur.

uses: clinical features:

Local: pain, swelling, redness.

Systemic: profuse sweating, salivation, hypotension, polyedema.

- cerebral hemorrhage.
- allergic reaction.
- hypoglycaemia.
- ECG changes.

Treatment:

Aim victim without hypertension and can handle at home
and children age over 5 can be handled at home
with local application of ice at the biting site
Supportive measures for relieve pain and some

killers
Facilitate the immobilization of biting site because movement
causes rapid absorption

→ negative suction pressure device, if available,
to extract scorpion venom apply 1 atm of
negative suction pressure.

non pharmacotherapy

- apply ice at the biting site.
- clean the scorpion bite area with water.
- If you can see the sting, flicking it with
tweezers.
- take care to not flick the poison sac that
is present at the end of sting
- apply baking soda paste
- apply meat tenderizer solution
↓
it gives relieve from pain

pharma on arrival at the hospital.

admit the patient with systemic condition (like hypertension
heart disease)
directly into intensive care unit with close under
electrocardiogram, echocardiogram.

↓

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Additional Sheet No.: 3

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↓
Patient with hypotension and respiratory depression
→ mechanically ventilated.

↓
for pain → Paracetamol.

↓
for allergic reactions → antihistamines

↓
investigators claim that proazacine hydrochloride
acts as antagonist to scorpion venom.

adult: 500 mg (6-9 hours).

children: 250 mg (6-9 hours).

↓
antivenom therapy.

① Goat serum derived venom

② scorpion antivenom.

1) Goat serum derived venom: it has been used in
most of countries since years.
but a controversy in its efficacy.

Serum sickness syndrome observed in those
patients who have taken Goat serum derived
venom.
→ this syndrome observed after 2nd week.

Scorpion antivenom - has been used in India
effective against mesothelioma

Recommended dose - 2 vial

Classification of Snakes

Snakes are classified based on morphological features include presence of scales, dentition, osteology, myology, and basis of immunological ^{analysis} of serum and venom, and sequence analysis of DNA that encodes mitochondria and enzymes.

→ There are about 3500 species of snakes present in the world.

but less than 350 species are venomous.

Venomous snakes are classified into 5 families.

- 1) Colubridae
- 2) Elapidae
- 3) Elapidae
- 4) Viperidae
- 5) Hydrophidae

Colubridae - Colubridae consists of 1400 species of snake

→ approximately 400 of these Colubridae species have short immobile fangs

Roll No.: 191217000

Additional Sheet No.: 4

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- one third of these species have rear fangs which secrete saliva delivered by chewing motion.
- one enlarged solid tooth is present at the posterior end of the maxilla.

→ Ex: porcupine
rat snake

- colubrid species predominant in all countries except Australia.

Arctaspidae:

- long front fangs present
- fangs helpful in immobilization of prey by side-sweeping method.

other species:
→ extend upto 10mm long.

Elapidae. → They fangs protrude from the corners of partially closed mouth.

Elapidae:

- short fixed front fangs.
- They channelled at the posterior end of the maxilla.

Ex: coral snake.
cobra.
mambai.

Viperidae: highly developed, highly curved, long fangs. They are in the form of needle.

these species divided into two sub categories.

- 1) true viper.
- 2) pit viper.

true viper: viper/caddas.

pit viper: rattlesnake.

Hydrophididae: these species present in sea.
short fixed fangs present

In India, there are about 350 species of snakes & in that less than 70 are venomous.

venomous features.

- body coloured is black, dull green, brown, black.
- stout body.
- abrupt tapering tail.
- broad belly scales present across the entire width of belly.
- small scales present on the head.
- fangs present.
- ^{presence of} hood with/without markings.
- rattles present on tail.
- pit between eye and nostril.

Common cobra.

Scientific name is *Naja naja*.

Common name is India cobra.

Geographical distribution: All over India.

Characteristics

→ common cobra black and brownish colour.

→ length → 4 to 5 feet.

→ on dorsal side of the head, monocellate or binocellate head markings present.

→ monocellate snakes are ^{pale} yellow or black in colour with speckled and variegated.

→ another snake that is encountered in Indian subcontinent is Andaman cobra (*Naja sputatrix*).

→ on ventral side of the cobra, black, faint, broad, two dark spots present which extend upto 3rd and 4th scale.

→ special distinguish feature is 3rd supralabial shield touches eyes and nose shield.

→ small wedge-shaped scale between 4th and 5th sublabial scale.

→ another feature is 3 small scales present beyond each eye.

habitat

- grass plain fields, mountainous regions.
- they reside among piles of brick and old masonry constructions
- black cobra present in roadside of India, Rajasthan, Jammu - Kashmir.
- Common cobra is diurnal bite sites cobra bites occur ^{during} day time and night time
- common cobra diet is rats.

7)

SNAKE BITE TREATMENT

first aid.

Aims of first aid:

- Immobilization of patient to retard systemic absorption.
- Perform ABC Analysis, prevent Reduce hypoxaemia.
- take to the nearest hospital as soon as possible.
- provide reassurance and control symptoms of envenoming.

* First aid provision of initial care to sick or injured patient performed by non expert or trained person to treat sick or injured persons until definitive treatment can be assessed.

- splinting the bitten part to facilitate immobilisation

it is natural that snake bite creates intense fear of death in victims, so victims run in agitation. it causes increased heart rate, muscle activity, vasodilatation it causes

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Additional Sheet No.: 6

rapid absorption of venom.

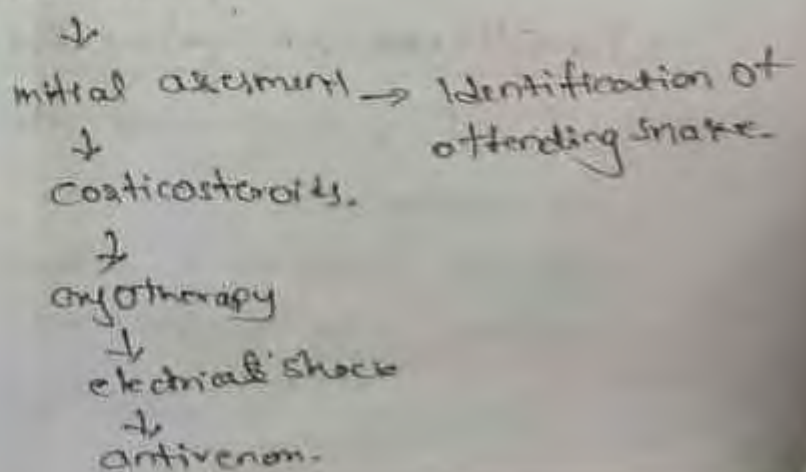
- clean the bitten part with water.
- remove any jewellery from ~~the~~ site of bitten part.
- remove shoes if bitten part was leg.
- a broad, elastic band is called crepe bandage is wrapped along leg or hand (based on bitten part), until total limb is covered.
- If one bandage not sufficient, then start with another bandage at the end of ^{first} bandage is finished.
- this bandage compression should stop the lymphatic movement but not restrict the blood flow.

Don'ts:

- Do not use tourniquets.
- Do not use herbal medicine.
- Do not consume alcohol and caffeine.
- do not cut the wound or try to extract ^{the} venom.

Treatment:

Resuscitation



Resuscitation

after patient admission on the hospital staff
the treatment, irrespective of first aid given.

↓
cardiopulmonary monitoring.

↓
ABC analysis.

↓
iv administration.

↓
assessment vital parameters.
establishment of vital functions.

↓
assessment of conscious level.

↓
airway should be patent by removing vomitus,
secretions from the pharynx/mouth.

Initial assessment

after resuscitation, focus on
look for the signs & symptoms
of patient for envenomation.

↓
based on radial pulse, heart rate,
respiration rate, level of consciousness.

↓
Corticosteroids.

Corticosteroids are used for allergic
reactions that occur due to anti
venom.

Identification of offending snake

→ detailed history and thorough clinical examination used
for diagnosis.

→ Patient time and where snake bite had been takes
place also important.

→ diagnosis is easy if we know about
offending snake.

Cryotherapy

cryotherapy means application of ice to bitten area
site \rightarrow it gives relief from pain and burning
sensation.



electrical shock

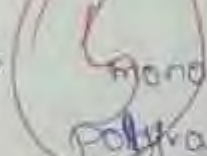
electrical shock is used when we don't know about
offending snake.

it is life saving treatment.



Antivenom:

Snake Antivenom: Snake antivenom is immune
globulin enzyme refined fragment purified from
plasma and serum of horses and sheep that have been
immunized with snake venom.

\Rightarrow  monovalent antivenom } two types of antivenom
polyvalent antivenom } present.

- \Rightarrow monovalent antivenom \Rightarrow neutralises only one species.
- \Rightarrow polyvalent antivenom \Rightarrow neutralises two or more
all species.
- \Rightarrow cross neutralising activity present among venoms



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Mangalpally (V), Ibrahimpatnam (M), R.R. Dist. - 501 510.

Main Answer Book

21/35

MID Exam No.: Mid Exam-I

Date: 05-1-2023

Branch: M. pharma/pharmaceutical

Year: 2nd year

Signature of Invigilator with Date

Roll No.: 217130107

Subject: Drug Regulatory Affairs

No. of Additional: 01

* Short Answers

- 1) What is Schedule M & Y. Explain its significance.
- 2) Write the latest Amendments of Drugs and cosmetics act.
- 3) What is Indian GMP Certification.
- 4) What is ICH guidelines.
- 5) Write a note on QA & QC.

Long Answers

- 1) Write a note on regulatory aspects of pharmaceutical and bulk drug manufacture.
- 2) Write in detail about various licences.
- 3) Write a detail note on the new drug (Emphasising on Importation, Registration, development, clinical trials, BE, NOC & BE studies).

* Short Answers

1) Schedule M

The Schedule M deals with good manufacturing practices where its significance deals with all the related good manufacturing practices to fall apart.

* Schedule Y

The schedule Y deals with the non-clinical trials - (Animal Study)

→ Where, the significance of schedule Y maintains the clinical manifestations and working progress on non-clinical trials to fall apart

2) Latest Amendments of drugs and cosmetics Act

→ The latest update on the Amendments of drugs and cosmetics Act came on 21st Feb 2021 under the Act of Rule 23 and under the Schedule K.

Significance

The latest amendment of rule 23 of drugs and cosmetics of drugs prescribed by the nurses, health care professional - (physician) and they have license to prescribe the medicines ^{should} as per the rule 23 and Drugs and Cosmetics Act.

3) Indian GMP Certification

→ The Indian GMP - Good manufacturing practices Certification ensures that the manufacturing process of the pharmaceutical

- utical products should be under the Schedule H and maintains the process on a proper standardisation of drugs.
- ⇒ Also, where it prevents the errors and also the risk factors.

4) ICH Guidelines.

- International conference on harmonization of technical requirements of pharmaceutical for human use.
- ⇒ The Guidelines provide us the technical requirements for the production of pharmaceutical products.
- ⇒ The Guidelines provide the good clinical trials & declaration of Geneva and also NDCT rules.
- ⇒ The guidelines provides the standards of Regulatory Authorities
- ⇒ These guidelines provide us the right and well being of the trial participant

5) Quality Assurance

The quality Assurance, maintains the quality of the pharmaceutical product manufactured where, the produced product should of greater quality according to the standard

3) (a) Import of New drugs

- To import the new drugs, the application should sign and date in form 3 and form 8.
- And also should fill the form 122 A, for import the drugs from other countries.

* Registration of New drugs

To register the new drugs Form 44 need to be filled by the applicant and pre-clinical data should be submitted as supportive document.

* Development of New drugs

To Develop a new drug we should need the IND approval and NDA approval and other applicable regulatory approvals. To develop a new drug.

* Clinical trials

- To conduct the clinical trial we should get the information of non-clinical trial and get approval from ethics committee and other applicable regulatory approval And IND and NDA approval also.

* BE NOC & BE studies

To conduct BE NOC & BE studies we should get approval from ANDA Abbreviated New drug approval and also BE NOC [BE No Objection Certification] and T-license to perform BE NOC and BE studies.

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Roll No.: 2117130107

Additional Sheet No.: 01

Signature of Investigator with date

the drugs and cosmetic Act 1945. Along with these licence, the retailers also need other, licences to additional issue the drugs.

Wholesale licence is used for wholesale companies and sales executives who are selling drug products to pharmacies.

* The licences required to get retail & whole sale licence

The following licence should be needed to sell the drug products, they are:

- Drugs and cosmetics act 1945
- Drugs and pricing act 2013
- Narcotic and psychotropic drugs Act 1985.

* Manufacturing Licence

The manufacturing license particularly for the manufacturing of the pharmaceutical products. under the:

- Drugs and cosmetics act 1945
- Drugs and pricing Act 2013
- Narcotic and psychotropic drugs Act 1985

* guidelines. The Quality assurance itself it is an independent manufacturing body, it falls under the proper maintains of the operations unit in pharmaceutical industry.

* Quality Control

The Quality control, where it controls the quality of the pharmaceutical products, where it controls the operational unit for the proper manufacturing of the pharmaceutical products, the control of drugs their active pharmaceutical Ingredients, excipients and all the related compounds in manufacturing unit.

* Long Answers

2) Various Licences

The Various Licences that are issued under the Drugs and cosmetics Act 1945. The Various Licences are,

- Retail Licence
- Whole Sale Licence
- Manufacturing Licence.

* Retail Licence

The retail Licence, where the manufactured products are sold for small doses under

Pharmacognosy

Assignment - 1

Name is S. Goutham chandrea

class is B-pharmacy BIT

Roll no is 20121R0082

Topic is Methods of Tissue Techniques

Submitted to is Ms. Gloy

Submitted by is S. Goutham chandrea

Date of Submission is 9/01/2023

Methods of tracer techniques

6/5 ~~day~~

1. Precursor product sequence

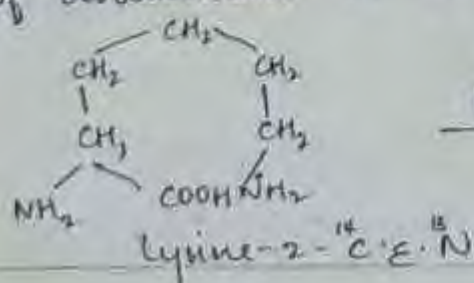
The presumed precursor of the constituent under investigation on a labelled form is fed into the plant and after on suitable time the constituent is isolated, purified and radioactivity is determined.

Radioactivity of the isolated compound alone is not sufficient that the particular compound fed is a direct precursor, because the compound may enter the general metabolic pathways and distributed randomly through a whole range of products.

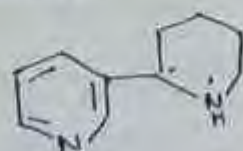
Further evidence can be made by double & triple labelling experiments by using either different isotopes of specific labelling by one isotope at two or more positions in the molecule.

Application - Restricted synthesis of hyoscyine, distinct from hyoscyamine in *Datura stramonium*. This method is applied to the biogenesis of morphine and ergot alkaloids.

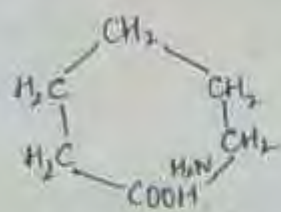
Leete in his experiment used two doubly labelled lysines to determine which nitrogen of the lysine molecule was involved in formation of piperidine ring of anabesine in *Nicotiana glauca*.



$\xrightarrow{\text{N}_2 \text{ glauca}}$

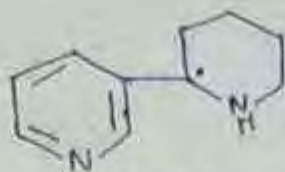


Anabesine



lysine-2-¹⁴C-α-¹⁵N

N. glauca



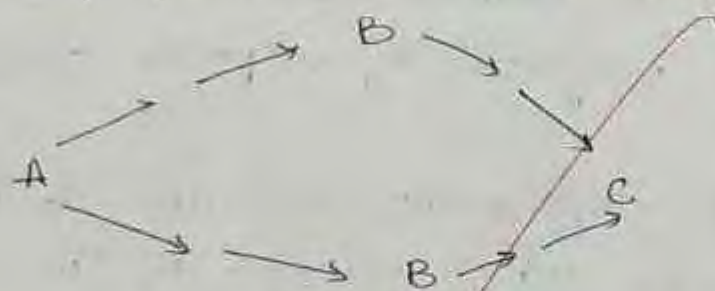
Anabrine

vinyl pyrrolidine
DOPA but by
conversion

2. Competitive feeding:

If incorporation is obtained, it is necessary to consider whether this is the normal route of synthesis in plant not the subsidiary pathway. Competitive feeding can distinguish whether B or B' is the normal intermediate in the formation of C from A.

Snail: B & B' are fed with labelled A to separate groups of plants and a control is performed by feeding labelled A only to another group. If the incorporation of activity into C is inhibited in the plants receiving B but is unaffected in the group receiving B' then we may conclude that the pathway from A to C probably proceeds via B.



A → C
*A → B → C
*A → B' → C

Tyrosine is the precursor for 3,4-dihydroxyphenylpyruvic acid and 3,4-dihydroxyphenylethylamine for the synthesis of Noreludanosoline which produces morphine through eudynorphine. 3,4-dihydroxyphenylalanine (DOPA). It was considered by that another precursor i.e. 3,4-dihydroxy-

3,4-dihydroxyphenyl pyruvic acid would also be synthesized through DOPA but by labelling experiments and competitive and non-competitive feeding it has been confirmed that tyrosine directly gives 3,4-dihydroxyphenyl pyruvic acid without any intermediate.



2^{14}C - Tyrosine

3,4-dihydroxyphenyl pyruvic acid

Application used for elucidation of biogenesis of terpenoid alkaloids, biosynthesis of alkaloids of *Conium maculatum* using ^{14}C labelled compound.

3. Sequential analysis:

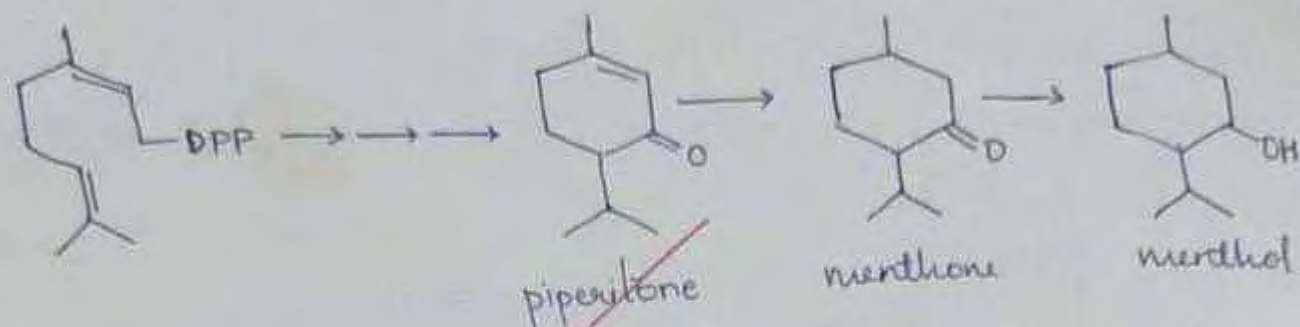
Principle of this method is to grow a plant in an atmosphere of $^{14}\text{CO}_2$ & then analyse the plant at given time interval to obtain the sequence in which various correlated compound become labelled.

Degradation of isolated radioactive compounds is important, because some units of molecule may become labelled more rapidly than others.

This method is used in the elucidation of path of carbon in photosynthesis.

Application - Exposure period to $^{14}\text{CO}_2$ as short as 5 min have been used to obtain evidence of biosynthesis sequence as piperitone \rightarrow (+)-menthone \rightarrow (-)-menthol in

mentha piperita



Biosynthetic sequence of piperitone to menthone to menthol.

~~Solved~~
9/1/23

Assignment - 1

Microbiology

Name :- K. Ashmitha

Roll no :- 22141T0014

College :- Bharath Institute of Technology

Subject :- pharmaceutical Microbiology

Class :- BIT, Pharm-D

Submitted to :- Mrs. Sharat Jyothi

Date of Submission :- 13/06/2022

4. Phase Contrast Microscopy:

6/5

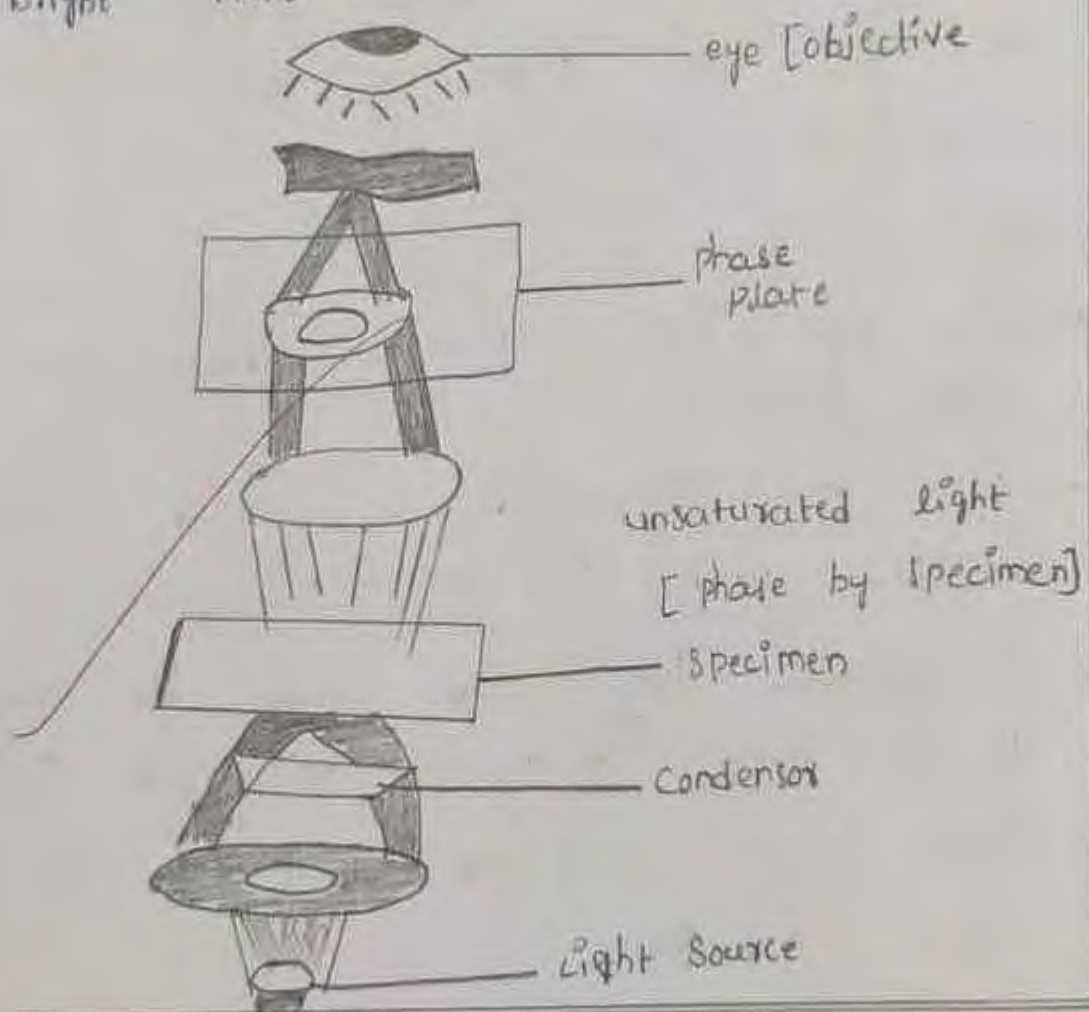
- Phase Contrast microscopy discovered by "FRITZ ZERNIKE" in 1953 and awarded the Nobel Prize for this.
- It produces high contrast images of transparent specimens [such as living cells].
- The condenser has a special diaphragm consisting of an annular stop, which allows only a hollow cone of light ray to pass through the condenser.
- The phase plate is a special optical disc located at the real focal plane of the objectives which retard the direct rays.

Principle

- When light passes, condenser annulus modifies the light beam.
- Then when sample is inserted it scatters parts of light which is the defocused to detector.
- To distinguish direct light from the scattered by the sample, a phase plate is inserted.
- Light crosses a thicker part of plate, this shifts its phase.

Advantages

- It makes more highly transparent objects more visible
- It examines intercellular components
- It is used to see unstained samples.
- It helps to study and interpret thin specimens.
- It is suitable for living cells
- High contrast high resolution images
- It is possible to visualise certain cell organelles and structures that are invisible with bright field.



2.1 Dark field Microscopy

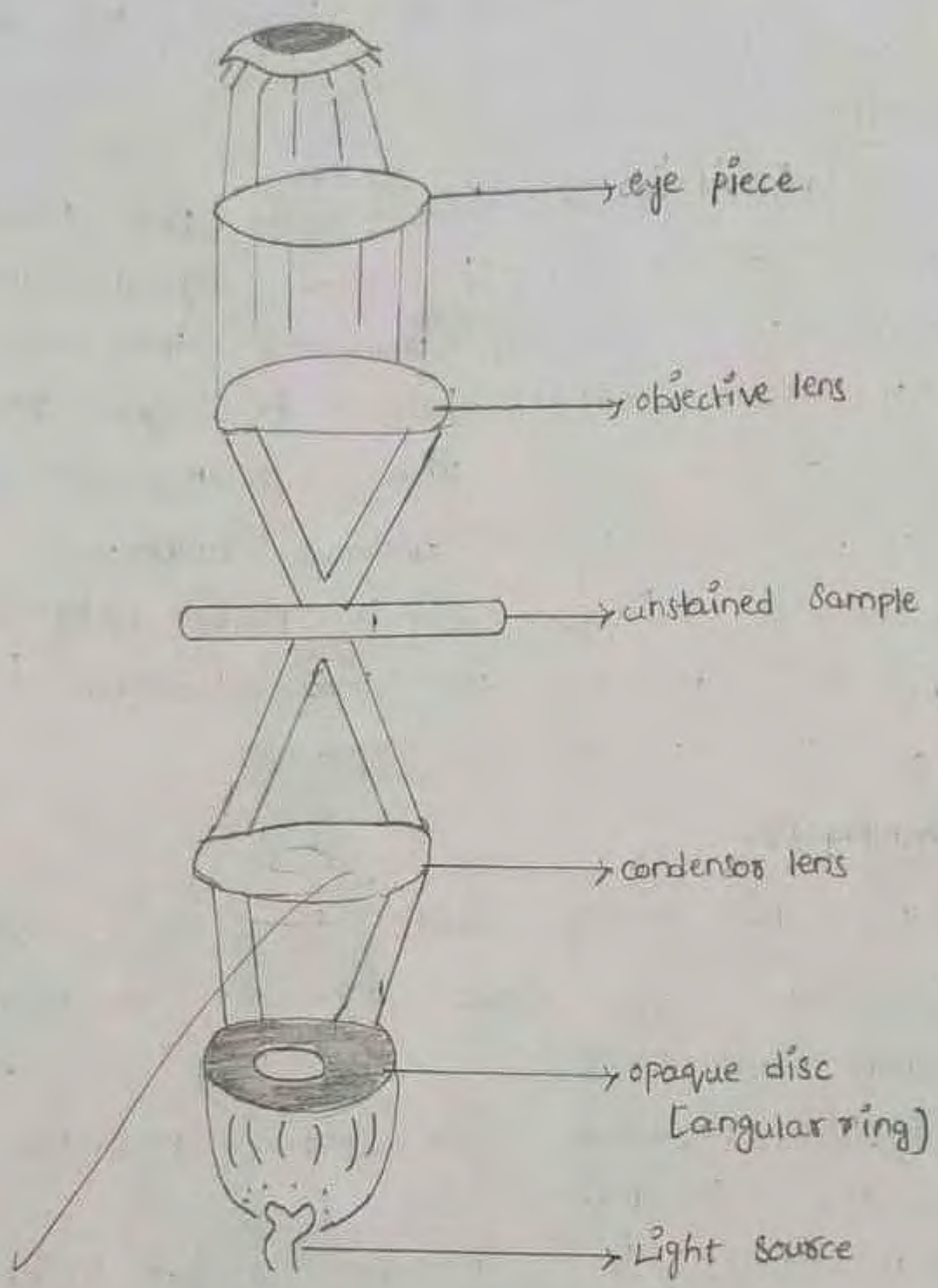
The microscope which forms a bright image against a dark background is called dark field microscopy.

Principle

- The effect produced by the dark field technique is that of a dark background against which the objects are brilliantly illuminated. The condenser has a stop plate which blocks the light over the centre of the field where specimen lies.
- It is used to see unstained samples.
- Stop plate [opaque disc] is placed under condenser lens due to which the light scattered by object on slide reaches to eyes.

Advantages:-

- Ideal for viewing objects that are unstained, transparent and absorb light or ~~no light~~.
- Simple and effective.
- Unstained specimens ~~will~~ appear much more vibrant and detailed.
- It deflects the majority of U.V rays, which protects the viewer's eyes.



3x Electron Microscopy

- It is a technique used to obtain high resolution ultrastructure of biological and non-biological specimen.
- In this electro magnetic field used to form electron optical lens system.
- In this source of illumination beam e^- is used.
- It gives very close high resolution images because it has very short wavelength [1,00,000 shorter] than visible light photons.
- In this fluorescent screen used for final images.

Type 2 :- i) Transmission electron microscopy [TEM]

ii) Scanning electron microscopy [SEM]

3x TEM :-

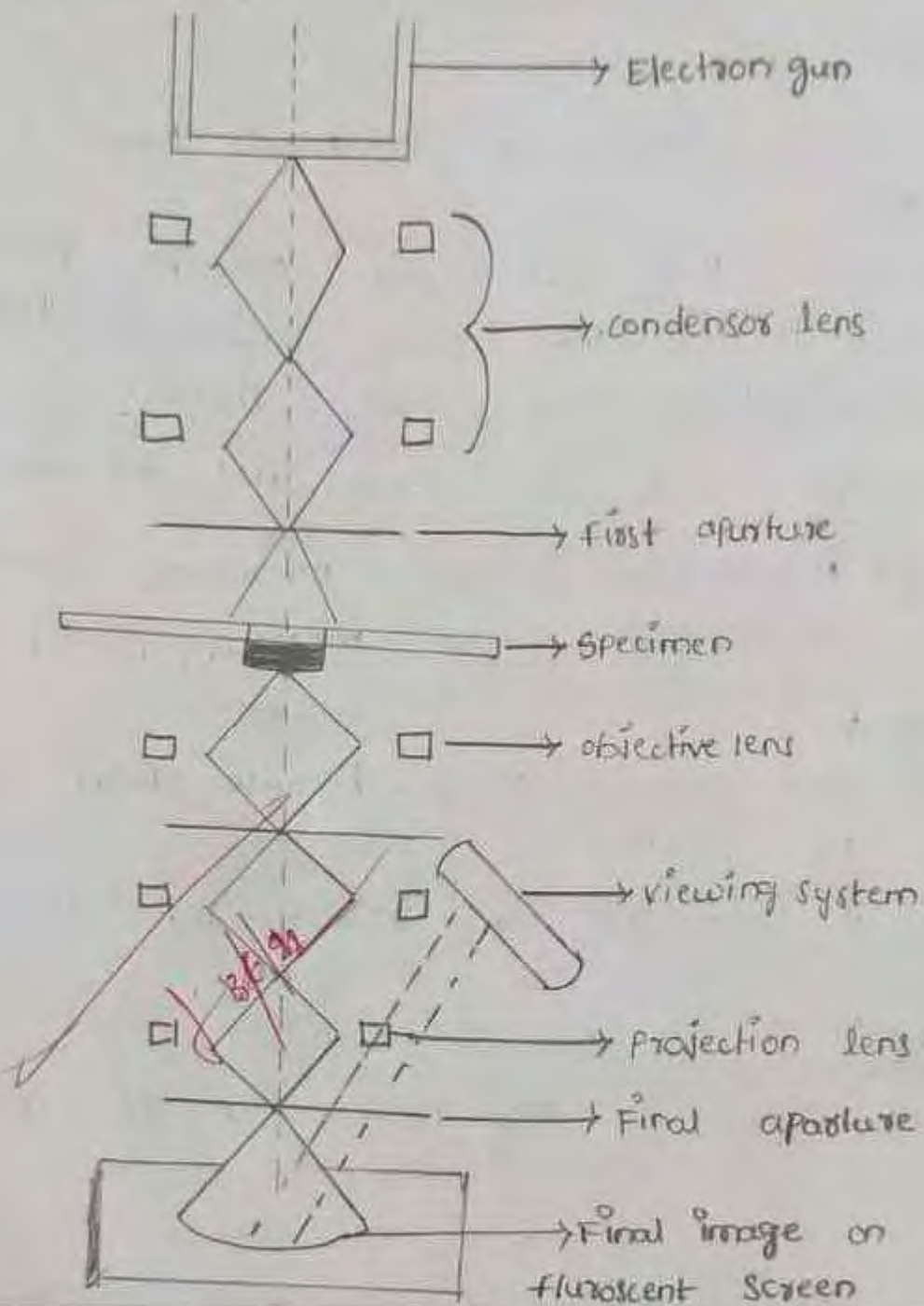
- It gives complete image because electron crosses the specimen.
- It is used for thin specimen for better result.

2x SEM :-

- It produce a 3D structure of the specimen.

→ In TEM electrons are passed through the Specimen, in SEM electrons are scattered from Specimen Surface.

→ SEM gives the Structure of Surface only while TEM gives the internal Structure.



Pharmaceutical Organic Chemistry

Name: CH. pandavi

Branch: BIT B pharm

Sec: A

Roll No: 22171R0018

Submitted to: Dr. Arifa Begum

~~SLR~~
~~Hybrid~~

HYBRIDISATION:

The process of mixing of atomic orbitals of same energy to produce a set of identical orbitals is called as hybridisation.

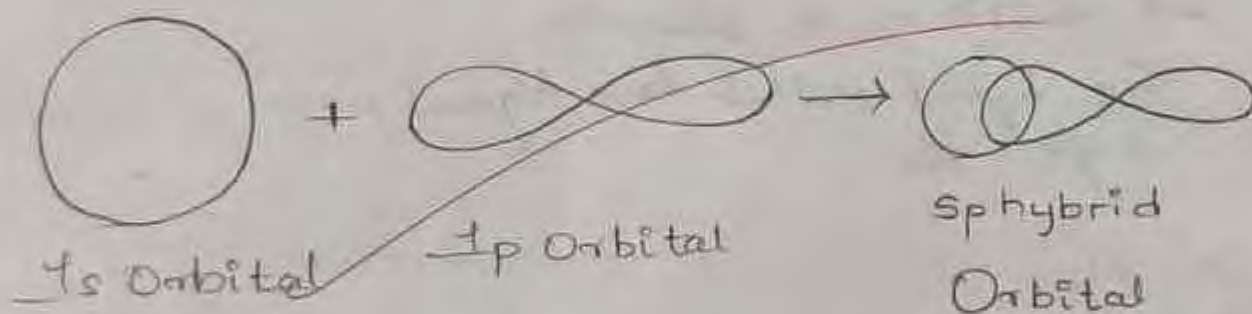
Types of Hybridization:-

sp -Hybridization.

sp^2 , sp^3 , sp^3d , sp^3d^2 , sp^3d^3 Hybridisation.

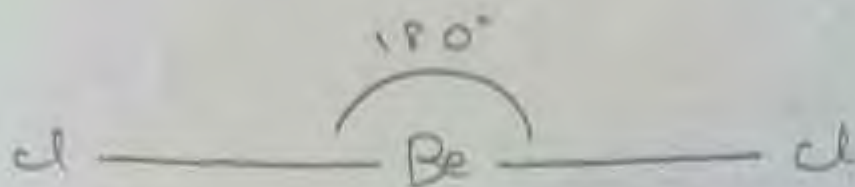
sp -Hybridization:

sp -Hybridization involves the mixing of one s and one p orbital resulting in the formation of two identical orbitals. It is known as sp -Hybridization. Here, Each hybrid orbital has 50% s -character and 50% p -character. These orbitals are linearly oriented with bond angle 180° .



Example:

BeCl2



hybridisation : sp

Shape : Linear

Bond angle : 180°

sp^2 hybridization:

The process of mixing of one s -orbital and two p -orbital of the valence shell of an atom to form three identical orbitals is called as sp^2 hybridisation.

Each hybrid orbital has 33.33% s -character and 66.67% p -character.

These hybrid orbitals have trigonal planar with Bond angle 120°

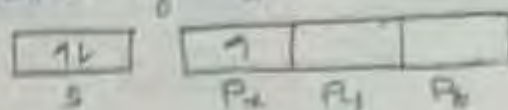
Ex: BF3

* In BF3 molecule Central atom is Boron (B)

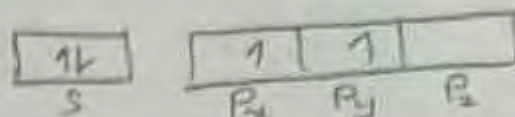
Electronic Configuration of 'B' $1s^2 2s^2 2p^1$

* In the formation of BF3:

of the 2s. Electron is excited to $2p_y$ orbital
Ground state Electronic configuration of "B":



1st Excited state of "B":



sp^3 Hybridization

The process of mixing of one-s and three p-orbitals of the Valence shell of an atom to form the identical hybrid orbitals is called as sp^3 hybridisation.

→ Each hybrid has

25% s-Character and 75% p-Character.

→ These four orbitals are oriented in space towards the corners of tetrahedral with bond angle of 109.28°

Ex: CH_4 .

→ In Methane, Carbon in the central atom, its Electronic Configuration is $1s^2 2s^2 2p^2$

→ In the formation of CH_4

one of the 2s electron is excited to $2p_z$ -orbital

→ Ground state Electronic Configuration of C.

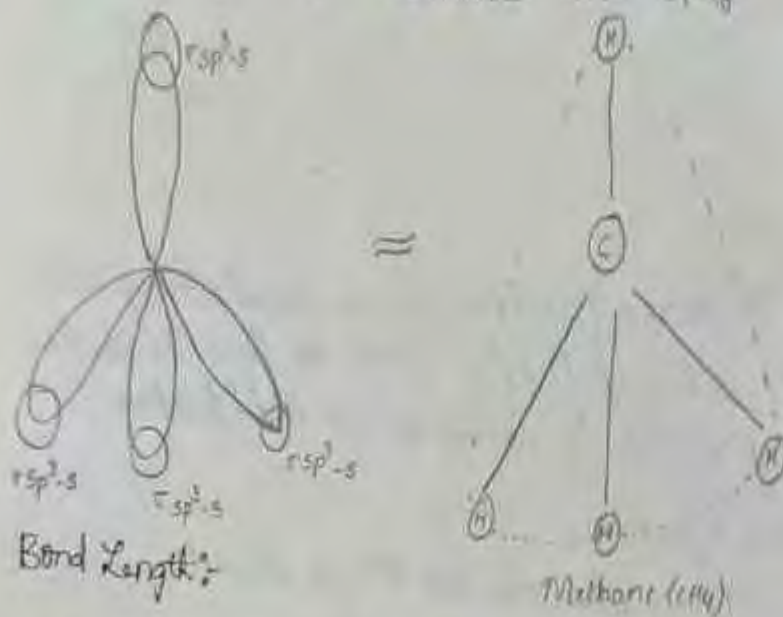
Excited state Electronic Configuration of C

→ The half-filled one 2s and three 2p-orbitals of Carbon hybridise to give four equivalent

sp^3 - Hybrid orbitals

→ Each half-filled sp^3 hybrid orbital of Carbon is combined with half-filled s -orbital of Hydrogen to form four σ -bonds.

→ The shape of CH_4 is Tetrahedral with 109.28°



Bond Length:-

Bond length is measured of the distance between the nuclei of two bonded atoms in a molecule.

→ Bond length is directly proportional to the atomic radii
$$\text{Bond length} \propto \text{Atomic radii}$$

Bond Angle:-

Bond Angle can be defined as the angle formed between two covalent bonds.

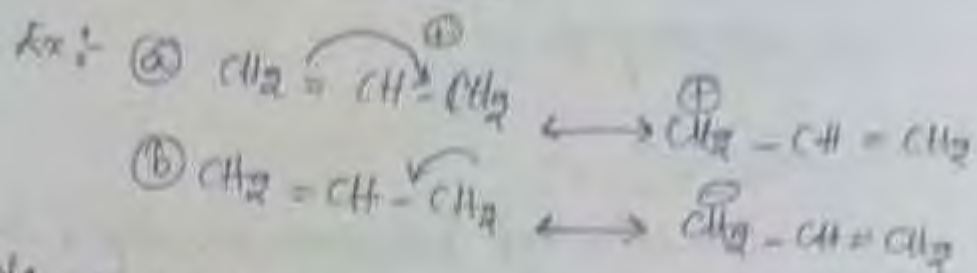
Bond angle \propto Electronegativity
of Central atom.

Bond Energy:-

Bond energy is defined as the amount of energy required to break apart of mole molecules into its constituent atoms. It also known as Bond enthalpy

$$\text{Bond Energy} \propto \frac{1}{\text{atomic radii}}$$

Displacement / shifting moment of electron within the compound. It is intra molecular.



Condition: Conjugation

- ① $\pi - \sigma^+$ / vacant - p-orbital
- ② $\pi - \sigma$ lone pair
- ③ $\pi - \sigma$ (free radical)
- ④ $\pi - \pi$
- ⑤ Lone pair σ^+

Inductive Effect:

The shifting of electrons from less electronegative atom towards more electronegative atom.

Inductive Effect is permanent

Factors effecting Inductive effect

(1) Distance

As the distance increases the inductive effect decreases.

(2) Degree of Carbon

→ Inductive effect increases as the degree of carbon decreases

Tertiary > Secondary > primary.

(3) Hybridisation.

$sp^2, sp^2 > sp^3$

* All functional groups are electron withdrawing groups
(-I effecting group)

* All alkyl groups are electron releasing groups
(+I effecting groups).

Electromeric effect:

The formation of instantaneous dipole due to transfer of π -electron in the presence of reagent

→ It is a temporary effect and only observed in π -bonds

→ They doesn't occur in alkanes

Types of Electromeric effect

There are two types of Electromeric effect

1. +E effect

2. -E effect

+E effect:

* If π -electrons and the attacking reagent are at the same sites -

ex:-

-E effect:

* If π -electrons and attacking reagent are at different sites.

ex:-

Dear faculty Members,

Kindly make a note of the
IX/II,
Project students allotted to you
and make necessary arrangements
for smooth conduction of the
genuine projects, ensuring
the publication of the same
within a year.

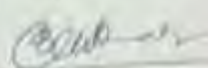
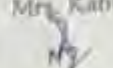
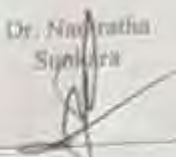
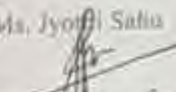
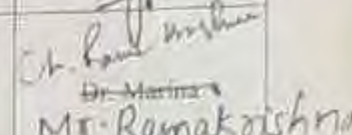
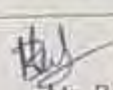

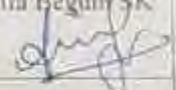
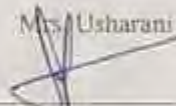
Shirish
2/3/2022

BHARAT INSTITUTE OF TECHNOLOGY

MANGALPALLY, IBRAHIMPATNAM, HYDERABAD

B. PHARM IV YR II SEM GUIDE ALLOTMENT FOR IV/II PROJECT

S. No	Roll No	Student Name	Group Number	Guide name
1.	16171R0067	S. Ganesh	1	Dr. Sridhar Goudi 
2.	16171R0068	Hidayath Khan		
3.	17171R0005	B. Sai Charan Goud		
4.	17171R0029	K. Raghavendhar		
5.	17171R0058	P. Venkatesh		
6.	17171R0060	P. Akhila	2	Ms. Rachael 
7.	18171R0001	Ambati Harika		
8.	18171R0002	Ardha Jashwanth Reddy		
9.	18171R0003	Alki Reddy Kalyani		
10.	18171R0004	Amula Swetha		
11.	18171R0005	Arulmoli Janani	3	Dr. Kalyani 
12.	18171R0006	Ayesha Jabeen		
13.	18171R0007	B. Shiva Prasad		
14.	18171R0008	Balram Shivani		
15.	18171R0009	Bhumika Tiwari		
16.	18171R0010	Bolgum Gopi Krishna Goud	4	Ms. Nahid 
17.	18171R0011	B. Karma Anusha Kumari		
18.	18171R0012	Chakka Aditya Ramakanth		
19.	18171R0013	Ch. Nikitha		
20.	18171R0014	Chiliveri Prathibha Varshini		
21.	18171R0015	Dargi Anand	5	Mrs. Azka 
22.	18171R0016	Dachepally Deekshitha		
23.	18171R0017	Dapavathi Amar Singh		
24.	18171R0018	Dasari Devendhar		
25.	18171R0019	Dasari Pavan Kalyan Goud		
26.	18171R0020	Duvasi Rakesh	6	Dr. Sridevi Bheema 
27.	18171R0021	Eedula Chandana		
28.	18171R0023	Gorige Ramesh		
29.	18171R0024	Hajera Nadia		
30.	18171R0025	Jadhav Shruthi		
31.	18171R0026	Konkayala Abhilash Reddy	7	Ms. Twila 
32.	18171R0029	Komittysheetty Sravan Kumar		
33.	18171R0030	Kalam Thriveni		
34.	18171R0031	Kayiti Manasa		
35.	18171R0032	Kethavathi Manjula		
36.	18171R0033	Kunal Biyani	8	Dr. Shivanthi Kamila 
37.	18171R0034	Marri Abhishiek		
38.	18171R0035	M. Sunil Kumar		
39.	18171R0036	Maddu Divya		
40.	18171R0037	Manal Reecha		

41.	18171R0038	Manda Bharath	6	Dr. J. Bhaskar 
42.	18171R0040	Mohammad Wajeed		
43.	18171R0041	Merreddy Vamsidhar Reddy		
44.	18171R0042	Mergi Anil Joshi		
45.	18171R0043	Moreddy Shiva Kumar		
46.	18171R0044	Motam Santhosh	10	Mrs. Kabita Hanik 
47.	18171R0045	Mudavath Pooja		
48.	18171R0046	Mummadi Swathi		
49.	18171R0047	Nadeem		
50.	18171R0048	Pandiri Pavithra		
51.	18171R0049	Pampari Jagannath	11	Dr. Namratha Sunkara 
52.	18171R0050	Pandi Jhansi		
53.	18171R0051	Pasham Mahesh Reddy		
54.	18171R0052	P Naga Mahi Laxmi Prasanna		
55.	18171R0053	Rangineni Sanath Kumar		
56.	18171R0054	Railla Swathi	12	Ms. Jyoti Satia 
57.	18171R0055	Rapelly Rajeshwari		
58.	18171R0056	Rizwana Begum		
59.	18171R0057	S. Ranjith Reddy		
60.	18171R0058	Varaganti Saiprasanna		
61.	18171R0059	Shreeya Salunke	13	Dr. Ramakrishna Mr. Ramakrishna 
62.	18171R0060	Sirigiri Bhargavi		
63.	18171R0061	Surigala Shiva Kumar		
64.	18171R0062	Surigi Pavan Kalyan		
65.	18171R0064	Tammineni Mallikharjuna Reddy		
66.	18171R0065	Thannali Siddhartha	14	Ms. Beaula 
67.	18171R0066	Ummelvar Prathibha		
68.	18171R0069	Vadrya Arun		
69.	18171R0070	Vemani Shirisha		
70.	18171R0071	Vemula Spandana		
71.	18171R0072	Sunil Waghmare	15	Mrs. P. Paritha 
72.	18171R0073	Yaramala Srinivastreddy		
73.	18171R0074	Yamjala Ravali		
74.	18171R0078	Boda Aravind		
75.	18171R0079	Jadhav Nitesh		
76.	15171R0045	K. Raj Kumar	16	Dr. Arifa Begum 
77.	15171R0054	R. Gopi Krishna Reddy		
78.	15171R0064	C. Vamshi		
79.	15171R0066	M. Chaitanya Seikrishna		
			17	Mrs. Usharani 

BHARAT INSTITUTE OF TECHNOLOGY

MANGALPALLY, IBRAHIMPATNAM, HYDERABAD

B. PHARM IV YR II SEM PROJECT REVIEW, JUNE 2022

ATTENDANCE SHEET

Presentations

13/6/22
10:20 to
5:00 PM

S. No	Roll No	Student Name	Signature
1.	16171R0067	S. Ganesh	
2.	16171R0068	Hidayath Khan	
3.	17171R0005	B. Sai Charan Goud	
4.	17171R0029	K. Raghavendhar	
5.	17171R0058	P. Venkatesh	
6.	17171R0060	P. Akhila	
7.	18171R0001	Ambati Harika	
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9.	18171R0003	Akki Reddy Kalyani	
10.	18171R0004	Amula Swetha	
11.	18171R0005	Arulmoli Janani	
12.	18171R0006	Ayesha Jabeen	
13.	18171R0007	B. Shiva Prasad	
14.	18171R0008	Balram Shivani	
15.	18171R0009	Bhumika Tiwari	
16.	18171R0010	Bolgum Gopi Krishna Goud	
17.	18171R0011	B. Karma Anusha Kumari	
18.	18171R0012	Chakka Aditya Ramakanth	
19.	18171R0013	Ch. Nikitha	
20.	18171R0014	Chiliveri Prathibha Varshini	
21.	18171R0015	Dargi Anand	
22.	18171R0016	Dachepally Deekshitha	
23.	18171R0017	Dapavath Amar Singh	
24.	18171R0018	Dasari Devendhar	
25.	18171R0019	Dasari Pavan Kalyan Goud	
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36.	18171R0033	Kunal Biryani	
37.	18171R0034	Marri Abhishiek	
38.	18171R0035	M. Sunil Kumar	
39.	18171R0036	Maddu Divya	

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40.	18171R0037	Manal Reechu	M. Reechu
41.	18171R0038	Manda Bharathi	M. Bharathi
42.	18171R0040	Mohammad Wajeed	M. Wajeed
43.	18171R0041	Mereddy Vamsidhar Reddy	M. Vamsidhar Reddy
44.	18171R0042	Mergi Anil Joshi	M. Anil Joshi
45.	18171R0043	Moreddy Shiva Kumar	M. Shiva Kumar
46.	18171R0044	Motam Santhosh	M. Santhosh
47.	18171R0045	Modavath Pooja	M. Pooja
48.	18171R0046	Mummadi Swathi	M. Swathi
49.	18171R0047	Nadeem	N. Nadeem
50.	18171R0048	Pandiri Pavithra	P. Pavithra
51.	18171R0049	Pampari Jagannath	P. Jagannath
52.	18171R0050	Pandi Jhansi	P. Jhansi
53.	18171R0051	Pasham Mahesh Reddy	P. Mahesh Reddy
54.	18171R0052	P Naga Maha Laxmi Prasanna	P. Laxmi Prasanna
55.	18171R0053	Rangineni. Sanath Kumar	R. Sanath Kumar
56.	18171R0054	Railla Swathi	R. Swathi
57.	18171R0055	Rapelly Rajeshwari	R. Rajeshwari
58.	18171R0056	Rizwana Begum	R. Begum
59.	18171R0057	S. Ranjith Reddy	S. Ranjith Reddy
60.	18171R0058	Varaganti Sai prasanna	V. Sai prasanna
61.	18171R0059	Shreeya Salunke	S. Salunke
62.	18171R0060	Sirigiri Bhargavi	S. Bhargavi
63.	18171R0061	Surigala Shiva Kumar	S. Shiva Kumar
64.	18171R0062	Surigi Pavan Kalyan	S. Pavan Kalyan
65.	18171R0064	Tammineni Mallikharjuna Reddy	T. Mallikharjuna Reddy
66.	18171R0065	Thammali Siddhartha	T. Siddhartha
67.	18171R0066	Ummelvar Prathibha	U. Prathibha
68.	18171R0069	Vadtya Arun	V. Arun
69.	18171R0070	Vemani Shirisha	V. Shirisha
70.	18171R0071	Vemula Spandana	V. Spandana
71.	18171R0072	Sunil Waghmare	S. Waghmare
72.	18171R0073	Yaramala Srinivasreddy	Y. Srinivasreddy
73.	18171R0074	Yamjala Ravali	Y. Ravali
74.	18171R0078	Boda Aravind	B. Aravind
75.	18171R0079	Jadhav Nitesh	J. Nitesh
76.	15171R0045	K. Raj Kumar	K. Raj Kumar
77.	15171R0054	R. Gopi Krishna Reddy	R. Gopi Krishna Reddy
78.	15171R0064	C. Vamsi	C. Vamsi
79.	15171R0066	M. Chaitanya Srikrishna	M. Chaitanya Srikrishna

Presentees: 79

Absentees: 05

Total no of Students: 79

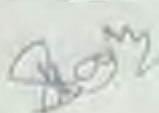

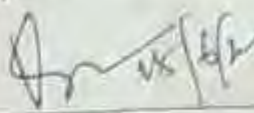




Signature of C/I:

Academic I/C:

Principal:

BHARAT INSTITUTE OF TECHNOLOGY
Mangalpally, Ranga Reddy
B.PHARMACY IV YEAR II SEMESTER-2022
PROJECT REVIEW MEETING 1-Recommendations

NOTE: As per the review meeting conducted on 13/6/22 the following are the recommendations to the respective guides.

S.No	Guide	Recommendations	Signature
1	Dr K. Shibrath	<ul style="list-style-type: none"> ➤ Methodology to be projected ➤ Analgesic and Anti-inflammatory evaluation not done ➤ Please redefine the title accordingly 	
2	Ms Rachel Nivedita	<ul style="list-style-type: none"> ➤ Introduction is vast ➤ Need of study and Aim not specific 	
3	Dr Kalyani G	<ul style="list-style-type: none"> ➤ <i>In silico</i> studies to be tabulated ➤ Methodology to be mentioned with the software tools used ➤ Tables to be made clear 	
4	Ms Twyla Pushpa	<ul style="list-style-type: none"> ➤ Formulation- formula to be mentioned ➤ Rationale behind the selection of Ingredients is not clear ➤ <i>In vitro</i> evaluation tests are recommended 	
5	Mrs Kabita Banik	<ul style="list-style-type: none"> ➤ Need of study and Aim not specific ➤ Micro beads evaluation tests to be focused ➤ Graphs and Data mismatching ➤ Evaluation study duration should be revised 	
6	Ms Nahid	<ul style="list-style-type: none"> ➤ Aim and Need of study to be focused ➤ Review slides to be verified ➤ Include the survey data form (Sample) ➤ Justification of the study for awareness to be focused ➤ Conclusion should be specific to title 	
7	Dr J Bhasker	<ul style="list-style-type: none"> ➤ Review of literature to be incorporated ➤ Rationale of the work to be focused clearly 	






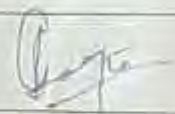

Academic In-charge


PRINCIPAL

DIRECTOR

BHARAT INSTITUTE OF TECHNOLOGY
Mangalpally, Ranga Reddy
B.PHARMACY IV YEAR II SEMESTER-2022
PROJECT REVIEW MEETING 1-Recommendations

NOTE: As per the review meeting conducted on 13/6/22 the following are the recommendations to the respective guides.

S.No	Guide	Recommendations	Signature
8	Dr.S.Nararatna	<ul style="list-style-type: none"> > Aim and Need of study to be focused > Review slides to be verified > Simultaneous estimation to be corrected 	
9	Mrs Jyothi Sahu	<ul style="list-style-type: none"> > The work is not suitable for publication > Recommended to revise the work > Suggested to emphasize on the adulteration to improve the work > No justification of Title-Ascertaining 	
10	Mrs Amatul Fatima	<ul style="list-style-type: none"> > TDDS evaluation studies not done > Recommended to incorporate the relevant test for the evaluation 	
11	Mrs Azka Fatima	<ul style="list-style-type: none"> > Aim and Need of study to be focused > Contents of the work not included > Thorough check of the PPT is recommended 	
12	Mrs Azka Fatima (Batch 2)	<ul style="list-style-type: none"> > Aim and Need of study to be focused > Contents of the work not included > Thorough check of the PPT is recommended 	
13	Mrs P. Haritha	<ul style="list-style-type: none"> > Reference of the marine source procurement to be included > PPT to be completed 	
14	Dr R. K. Muthaiah	<ul style="list-style-type: none"> > Submit the soft Copy (PPT) 	


Academic In-charge


PRINCIPAL


DIRECTOR

BHARAT INSTITUTE OF TECHNOLOGY

MANGALPALLY, IBRAHIMPATNAM, HYDERABAD

B. PHARM IV YR I SEM GUIDE ALLOTMENT FOR PRACTICE SCHOOL

S. No	Roll No	Student Name	Group Number	Guide name
1.	16171R0067	S. Ganesh	1	Dr. Seikanto Gantadi
2.	16171R0068	Hidayath Khan		
3.	17171R0005	B. Sai Charan Goud		
4.	17171R0029	K. Raghavendhar		
5.	17171R0058	P. Venkatesh		
6.	17171R0060	P. Akhila	2	Ms. Raabesal
7.	18171R0001	Ambati Harika		
8.	18171R0002	Ardha Jashwanth Reddy		
9.	18171R0003	Akki Reddy Kalyani		
10.	18171R0004	Amula Swetha		
11.	18171R0005	Arulmoli Janani	3	Dr. Kalyani
12.	18171R0006	Ayesha Jabeen		
13.	18171R0007	B. Shiva Prasad		
14.	18171R0008	Bairam Shivani		
15.	18171R0009	Bhumika Tiwari		
16.	18171R0010	Bolgum Gopi Krishna Goud	4	Mrs. Sanchari
17.	18171R0011	B. Karma Anusha Kumari		
18.	18171R0012	Chakka Aditya Ramakanth		
19.	18171R0013	Ch. Nikitha		
20.	18171R0014	Chiliveri Prathibha Varshini		
21.	18171R0015	Dargi Anand	5	Mrs. Azka
22.	18171R0016	Dachepally Deekshitha		
23.	18171R0017	Dapavath Amar Singh		
24.	18171R0018	Dasari Devendhar		
25.	18171R0019	Dasari Pavan Kalyan Goud		
26.	18171R0020	Duvasi Rakesh	6	Dr. Sridevi Bheema
27.	18171R0021	Eedula Chandana		
28.	18171R0023	Gorige Ramesh		
29.	18171R0024	Hajera Nadia		
30.	18171R0025	Jadhav Shruthi		
31.	18171R0026	Konkayala Abhilash Reddy	7	Ms. Twila
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34.	18171R0031	Kayiti Manasa		
35.	18171R0032	Kethavath Manjula		
36.	18171R0033	Kunal Biyani	8	Dr. Shubnath Kamila
37.	18171R0034	Marri Abhishiek		
38.	18171R0035	M. Sunil Kumar		
39.	18171R0036	Maddu Divya		
40.	18171R0037	Manal Reecha		

41.	18171R0038	Manda Bharath	9	Dr. Shital Patel
42.	18171R0040	Mohammad Wajeed		
43.	18171R0041	Merreddy Vamshidhar Reddy		
44.	18171R0042	Mergi Anil Joshi		
45.	18171R0043	Moreddy Shiva Kumar		
46.	18171R0044	Motam Santhosh	10	Mrs. Kabita Banik
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48.	18171R0046	Mummadi Swathi		
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50.	18171R0048	Pandiri Pavithra		
51.	18171R0049	Pampari Jagannath	11	Dr. Nargantha Sunkara
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61.	18171R0059	Shreeya Salunke	13	Dr. Marina M. Ramakrishna
62.	18171R0060	Sirigiri Bhargavi		
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65.	18171R0064	Tammineni Mallikharjuna Reddy		
66.	18171R0065	Thammali Siddhartha	14	Ms. Beaula
67.	18171R0066	Ummelvar Prathibha		
68.	18171R0069	Vadtya Arun		
69.	18171R0070	Vemani Shirisha		
70.	18171R0071	Vemula Spandana		
71.	18171R0072	Sunil Waghmare	15	Mrs. Haritha
72.	18171R0073	Yaramala Srinivasreddy		
73.	18171R0074	Yamjala Ravali		
74.	18171R0078	Boda Aravind		
75.	18171R0079	Jadhav Nitesh		
76.	15171R0045	K. Raj Kumar	16	Ms. P. Lavanya
77.	15171R0054	R. Gopi Krishna Reddy		
78.	15171R0064	C. Vamshi		
79.	15171R0066	M. Chaitanya Srikrishna		
			17	Mrs. Asharani

PROJECT TITLE LIST

Pharm D 5th yr BIT

Batch no	Name and roll no	College Guide	Hospital guide	Topic title
1	Rupa-16171T0015 Anulya-16171T0018 Vaishnavi-16171T0017 Pooja-16171T0005	Dr. Ascharya Chintulapati	Dr. Munika Hoppana	Single centre observational study to evaluate the incidence, severity, risk factors and efficacy of pharmacotherapy in management of taxane induced myalgia and arthralgias
2	Laharika-16171T0002 Saisree-16171T0004 Srija-16171T0012 Keerthi-16171T0016	Dr. Arifa Begum	Dr. Sethu Babu	Impact of non-sedation in gastrointestinal conventional endoscopy in outpatient setup
3	Shebeenaz-16171T0003 Kulsoom-16171T0011 Sukaina -16171T0009 Qamar-16171T0020	Dr. Marina Dsouza	Dr. Sarath Chandra Mouli veeravalli Dr. Shree Harsha	Evaluation of clinical profile, assessment of disease severity and treatment efficacy in spondyloarthritis patient.
4	Induja -16171T0013 Indrani -16171T0019 Manju -16171T0001 Chiatanya-16171T0007	Dr. Shibnath Kamila	Dr. Diwakar Naidu	Comparative study of blood pressure monitoring in hemodialysis patients with or without RAAS inhibitors.
5	Harshini-16171T0014 Maniranya-16171T0010 Archana -	P. Twila Pushpa	Dr. Anuja	Systemic analysis of TMPT genotyping.

PROJECT TITLE LIST

Pharm D 5th yr BIT

	16171T0008			
6	Akhal -16171T0021 Naveen- 16171T0026 Najam- 15171T0023	Dr. Kezia Sam	Dr. Moham med Sadiqazam Dr P Gautam	Spectrum of use of Ferric Carboxymaltose in patients with Heart Failure with or without Anaemia.
7	Sai Krishna- 16171T0027 kranthi- 16171T0025 Bala -16171T0023	Dr. shibnath kamila	Dr Srikanth appasani	Efficacy and tolerance of triple therapy in eradication of helicobacter pylori.
8	Venu-16171T0028 Junaid-16171T0022 Pranav- 16171T0024	Dr. Ramyasree	Dr. Jayasree	Assessment on safety and efficacy of Peg+ fibre Vs Peg+fibre+prucalopride in treatment of chronic constipation - effect on patient QOL.
9	Aisha Ahmed - 19175T0001 Rukhaiya Asma - 19175T0002 Nandigama sheeba Rani - 19175T0003 AzraFathima - 19175T0004	Dr Vijayavani	Dr. Manaspanig hari Dr Y.B.V.K Chandrashe kar	Outcome of high grade glioma patients at tertiary care centre

17_S_3_122	19171S1503	A RANDOMIZED CONTROLLED STUDY OF OXYTOCIN IN PREVENTING POSTPARTUM HEMORRHAGE IN CESAREAN SECTION	910,0,0	Dr Minmay Das	Pharmaceutical chemistry Principal, Bharat school of pharmacy, Mangalpally, Hyderabad	mmin1978@gmail.com	9441570421
17_S_3_122	-	-	-	Dr. Syed Safullah Ghori	Pharmacology Associate Professor, Anwarulloom College, Malepally, Hyd.	safullahghori@gmail.com	9548256006
17_S_3_122	-	-	-	Dr. S.A. Sreenivas	Pharmaceutics Principal, Sree Dattatreya Institute of Pharmacy, Sherguda, Hyderabad.	saseenu7@gmail.com	9393808082
17_S_4_122	19171S0104	PHYTOCHEMICAL AND HEPATOPROTECTIVE STUDY OF PHYLLANTHUS DEBILIS KLEIN EX WILD	910,0,0	Dr. Syed Safullah Ghori	Pharmacology Associate Professor, Anwarulloom college, Malepally, Hyderabad P. MEHTA	safullahghori@gmail.com	9548256006
17_S_4_122	19171S0105	EVALUATION OF ANTIULCER PROPERTY OF DELONXIA REGIA	910,0,0	Dr. Mehroon Farheen	Pharmacology Professor, HOD, Shadans Womens college of Pharmacy P. MEHTA	mehroonfarheen21@gmail.com	8121206032

Bharat Inst. of Technology(17)
M.Pharmacy_September_2021 - Uploaded Project panel details, on Wed Sep 08 11:13:39 IST 2021

Panel/D	HTMC	Thesis Name	fee, thesis, panel upload late fee	Examiner Name	Examiner Dept, Desig & Address	Examiners MailID	Mobile No.
17_S_1_122	19171S1502	COMPARATIVE STUDY OF SELECTIVE SEROTONIN REUPTAKE INHIBITORS IN TREATING DEPRESSION	910.0,0	Mr. Choda Pradeep Kumar (PhD)	Pharmacology Associate Professor, Teegala Krishna Reddy College of Pharmacy, Medbowli, Hyd <i>P. HANISHA</i>	pharmacologyp radesp@gmail.com	8121952454
17_S_1_122	-	-	-	Dr. Syed Safiullah Ghori	Pharmacology Associate Professor, Anwarullom College, Malepally, Hyd	safiullahghori@ gmail.com	9846256006
17_S_1_122	-	-	-	Dr. S. A Sreenivas	Pharmaceutics Principal, Sree Datttha Institute of Pharmacy, Shieriguda Hyderabad	saiseenu7@gm ail.com	9363808082
17_S_2_122	19171S0301	Formulation and evaluation of fast dissolving film of isosorbide mononitrate	910.0,0	Dr. Dilip Kumar Brahma	Pharmaceutics Associate Professor, School of Pharmacy, Guni nahak Institution, Technical Campus. <i>KARTIK K. S. V. J. RAO</i>	dilippharma973 @gmail.com	9553613231
17_S_2_122	-	-	-	Dr. S.A Sreenivas	Pharmaceutics Principal, Sree Datttha Institute of Pharmacy, Shieriguda, Hyderabad	saiseenu7@gm ail.com	9393808682
17_S_2_122	-	-	-	Dr. Pamu Sandhya	Pharmaceutics Professor, Shadan Women's College of Pharmacy, Kheiratabad, HYderabad	sandhyaspaska ntii@gmail.com	9849395823

17_S_4_122	19171S0101	PHYTOCHEMICAL AND HEPATOPROTECTIVE STUDY OF PHYLLANTHUS VIRGATUS G. FORST	910,0,0	Mr. Choda Pradeep Kumar	Pharmacology Associate Professor, Teegala Krishna Reddy college of Pharmacy, Medbowli, Hyderabad <i>P. Pradeep Kumar</i>	pharmacologypradeep@gmail.com	8121952454
17_S_4_122	19171S0102	Investigation of Antidepressant Activity of Nardostachys jatamansi	910,0,0	--	--	--	--

Thesis Upload Late Fee: 0

Panel Upload Late Fee: 0

Total Amount To be Paid : 6370

[Signature]
Signature of Principal with seal

PRINCIPAL
Sarat Institute of Technology
Mangalpally (V), Ibrahimpetnam (M),
R.R. Dist - 501510, Telangana



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KURATPALLY, HYDERABAD-500 083

PROCEEDINGS OF THE DIRECTOR OF EVALUATION

Procs.No. JNTUH/EB/M.Pharmacy September 2021/VV/2021, Dt:14.9.2021

Sub: JNTUH - Examination Branch-Appointment of External Examiner for conduct of Project Viva-Voce -Orders-Issued.

ORDER

The Principal, Bharat Inst. of Technology, has sent the panel of external examiners for conducting project viva-voce examination in respect of M.Pharmacy Course students has requested the university to issue necessary orders appointing the external examiners. The following is the list of examiners appointed to conduct Project Viva-Voce Examination.

Name Of The Course & Panel Id	Hall Ticket No's	External Examiner Appointed
M.Pharmacy(01) Panel_Id : 17_S_4_122	19171S0104 19171S0105 19171S0101 19171S0102	Dr. Mehroon Farheen Professor, HOD, Shadans Womens college of Pharmacy mehnoorfharheen21@gmail.com 8121206032
M.Pharmacy(03) Panel_Id : 17_S_2_122	19171S0301	Dr. Dilip Kumar Brahma Associate Professor, School of Pharmacy, Guru nanak Institution, Technical Campus. dilippharma073@gmail.com 9553613231
M.Pharmacy(15) Panel_Id : 17_S_1_122	19171S1502	Mr. Choda Pradeep Kumar (PhD) Associate Professor, Teegala Krishna Reddy College of Pharmacy, Medbowli, Hyd pharmacologypradeep@gmail.com 8121952454
M.Pharmacy(15) Panel_Id : 17_S_3_122	19171S1503	Dr. S.A. Sreenivas Principal, Sree Datta Institute of Pharmacy, Sheriguda, Hyderabad. salseenu7@gmail.com 9393808082

The Principal is requested to arrange for conduct of viva-voce examination on or before 17/09/2021 in OFFLINE MODE, otherwise they have to resubmit the panel. Upload the project viva-MARKS to the JNTUH portal using URL: <http://registrations1.jntuh.ac.in/pgprojectthesis> and get it approve entered marks by your assigned examiner from their login.

TO
THE PRINCIPAL



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

ACADEMIC REGULATIONS OF B.PHARM. (REGULAR/FULL TIME) STUDENTS

WITH EFFECT FROM THE ACADEMIC YEAR 2017-18 (R-17)

1.0 Under-Graduate Degree Programme in Pharmacy

- 1.1 JNTUH offers a 4-year (8 semesters) **Bachelor of Pharmacy (B.Pharm.)** degree programme, under Choice Based Credit System (CBCS) at its affiliated colleges with effect from the academic year 2017-18.

2.0 Eligibility for admission

- 2.1 Admission to the under graduate programme shall be made either on the basis of the merit rank obtained by the qualified candidate in entrance test conducted by the Telangana State Government (EAMCET) or the University or on the basis of any other order of merit approved by the University, subject to reservations as prescribed by the government from time to time.

- 2.2 The medium of instructions for the entire under graduate programme in Pharmacy will be **English** only.

3.0 B.Pharm. Programme structure

- 3.1 A student after securing admission shall pursue the under graduate programme in B.Pharm. in a minimum period of **four** academic years (8 semesters), and a maximum period of **eight** academic years (16 semesters) starting from the date of commencement of first year first semester, failing which student shall forfeit seat in B.Pharm course.

A student shall register for all subjects for covering 196 credits and each student shall secure 196 credits (with CGPA ≥ 5) required for the completion of the under graduate programme and award of the B.Pharm. degree.

- 3.2 **UGC/ AICTE** specified definitions/ descriptions are adopted appropriately for various terms and abbreviations used in these academic regulations/ norms, which are listed below.

3.2.1 Semester scheme

Each under graduate programme is of 4 academic years (8 semesters) with the academic year being divided into two semesters of 22 weeks (≥ 90 instructional days) each, each semester shall have - 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester

System (CBSS) as indicated by UGC and curriculum / course structure as suggested by AICTE are followed.

3.2.2 Credit courses

All subjects/ courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/ course in an L: T: P: C (lecture periods: tutorial periods: practical periods: credits) structure based on the following general pattern.

- One credit for one hour/ week/ semester for theory/ lecture (L) courses.
- One credit for two hours/ week/ semester for laboratory/ practical (P) courses or tutorials (T).

Courses like environmental science, human values and professional ethics, gender sensitization lab and other student activities like NCC/NSO and NSS are identified as mandatory courses. These courses will not carry any credits.

3.2.3 Subject Course Classification

All subjects/ courses offered for the under graduate programme in Pharmacy (B.Pharm. degree programmes) are broadly classified as follows. The university has followed almost all the guidelines issued by AICTE/UGC.

S. No.	Broad Course Classification	Course Group/ Category	Course Description
1	Foundation Courses (FnC)	BS – Basic Sciences	Includes mathematics, physics and chemistry subjects.
2		PS - Pharmaceutical Sciences	Includes fundamental Pharmacy Subjects.
3		HS – Humanities and Social sciences	Includes subjects related to humanities, social sciences and management.
4	Core Courses (CoC)	PC – Professional Core	Includes core subjects related to the parent discipline.
5	Elective Courses (ElC)	OE – Open Electives	Includes elective subjects related to inter-disciplinary areas of Pharmacy or other than Pharmacy
6	Core Courses	Project Work	B.Pharm. project or UG project or UG major project
7		Seminar	Seminar/ Colloquium based on core contents related to parent discipline.
10	Minor courses	-	1 or 2 Credit courses (subset of HS)
11	Mandatory Courses (MC)	-	Mandatory courses (non-credit)

4.0 Course registration

- 4.1 A 'faculty advisor or counselor' shall be assigned to a group of 15 students, who will advise student about the under graduate programme, its course structure and curriculum, choice/option for subjects/ courses, based on their competence, progress, pre-requisites and interest.
- 4.2 The academic section of the college invites 'registration forms' from students before the beginning of the semester through 'on-line registration', ensuring 'date and time stamping'. The on-line registration requests for any 'current semester' shall be **completed before the commencement of semester end examinations of the 'preceding semester'**.
- 4.3 A student can apply for **on-line** registration, **only after** obtaining the '**written approval**' from faculty advisor/counselor, which should be submitted to the college academic section through the Head of the Department. A copy of it shall be retained with Head of the Department, faculty advisor/ counselor and the student.
- 4.4 If the student submits ambiguous choices or multiple options or erroneous entries during **on-line** registration for the subject(s) / course(s) under a given/ specified course group/ category as listed in the course structure, only the first mentioned subject/ course in that category will be taken into consideration.
- 4.5 Subject/ course options exercised through **on-line** registration are final and **cannot** be changed or inter-changed; further, alternate choices also will not be considered. However, if the subject/ course that has already been listed for registration by the Head of the Department in a semester could not be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to have alternate choice either for a new subject (subject to offering of such a subject), or for another existing subject (subject to availability of seats). Such alternate arrangements will be made by the Head of the Department, with due notification and time-framed schedule, within the **first week** after the commencement of class-work for that semester.
- 4.6 **Open Electives:** Students have to choose one open elective (OE-I) in II year II semester, one (OE-II) in III year I semester, and one (OE-III) in III year II semester and one (OE-IV) in IV year II semester from the list of Open Electives.

5.0 Subjects/ courses to be offered

- 5.1 A typical section (or class) strength for each semester shall be 60.
- 5.2 A subject/ course may be offered to the students, **only if** a minimum of 20 students (1/3 of the section strength) opt for it. The maximum strength of a section is limited to 80 (60 + 1/3 of the section strength).
- 5.3 If more entries for registration of a subject come into picture, then the Head of Department concerned shall decide, whether or not to offer such a subject/ course for **two (or multiple) sections**.

Principal
Gharat Institute of Technology
Mangalpally, B. R. Dist - 501 519, Telangana.

6.0 Attendance requirements:

- 6.1 Attendance in all classes (Lectures/Laboratory/Practical Work) is compulsory. The minimum required attendance is aggregate of all the subjects courses including the attendance of mid-term examination. Laboratory work is 75%. The periods of attendance for each theory subject shall be considered. The student appears for the mid-term examination of that subject. A student shall be ineligible to appear for the Semester End Examinations (SEE), if his attendance is less than 75% including attendance in mandatory courses environmental science, human values and environmental ethics, gender sensitization Lab, NCC/NSO, NSS and Industrial Training in the semester.
- 6.2 *Condoning of shortage of attendance* Students who are short of a minimum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each semester shall be granted by the College Academic Committee on genuine and valid grounds, based on the student's representation with supporting evidence.
- 6.3 A stipulated fee shall be payable towards condoning of shortage of attendance.
- 6.4 Shortage of attendance below 65% in aggregate shall in **no case be condoned**.
- 6.5 Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examinations of that semester. They get detained and their registration for that semester shall stand cancelled. They will not be promoted to the next semester. They may seek re-registration for all those subjects registered in that semester in which student was detained, by seeking re-admission into that semester as and when offered; in case if there are any open electives, the same may also be re-registered if offered. However, if those electives are not offered in later semesters, then alternate electives may be chosen from the same set of elective subjects offered under that category.
- 6.6 A student fulfilling the attendance requirement in the present semester shall not be eligible for readmission into the same class.

7.0 Academic requirements

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in item no.6.

- 7.1 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course, if student secures not less than 35% marks (26 out of 75 marks) in the semester end examination, and a minimum of 40% of marks in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of letter grades, this implies securing 'C' grade or above in that subject/ course.

7.2 Promotion Rules

S. No.	Promotion	Conditions to be fulfilled
1	First year first semester to first year second semester	Regular course of study of first year first semester.

2	First year second semester to second year first semester	(i) Regular course of study of first year second semester. (ii) Must have secured at least 24 credits out of 48 credits i.e., 50% of credits up to first year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3.	Second year first semester to second year second semester	Regular course of study of second year first semester.
4	Second year second semester to third year first semester	(i) Regular course of study of second year second semester. (ii) Must have secured at least 58 credits out of 96 credits i.e., 60% of credits up to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	Third year first semester to third year second semester	Regular course of study of third year first semester.
6	Third year second semester to fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 86 credits out of 144 credits i.e., 60% of credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
7	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

- 7.3 A student shall register for all subjects covering 196 credits as specified and listed in the course structure, fulfills all the attendance and academic requirements for 196 credits, 'earn all 196 credits' by securing SGPA ≥ 5.0 (in each semester) and CGPA (at the end of each successive semester) ≥ 5.0 to successfully complete the under graduate programme.
- 7.4 After securing the necessary 196 credits as specified for the successful completion of the entire under graduate programme, the student can avail exemption of two subjects up to 6 credits, that is, two open elective subjects for optional drop out from these 196 credits earned; resulting in 190 credits for under graduate programme performance evaluation, i.e., the performance of the student in these 190 credits shall alone be taken into account for the calculation of the final CGPA (at the end of under graduate programme, which takes the SGPA of the IV year II semester into account), and shall be indicated in the

grade card of IV year II semester. However, the performance of student in the earlier individual semesters, with the corresponding SGPA and CGPA for which grade cards have already been given will not be altered.

- 7.5 If a student registers for some more 'extra subjects' other than those listed subjects totaling to 196 credits as specified in the course structure, the performances in those 'extra subjects' (although evaluated and graded using the same procedure as that of the required 196 credits) will not be taken into account while calculating the SGPA and CGPA. For such 'extra subjects' registered, % of marks and letter grade alone will be indicated in the grade card as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations 6 and 7.1 – 7.4 above.
- 7.6 A student eligible to appear in the end semester examination for any subject/ course, but absent from it or failed (thereby failing to secure 'C' grade or above) may reappear for that subject/ course in the supplementary examination as and when conducted. In such cases, CIE assessed earlier for that subject/ course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.
- 7.7 A student detained in a semester due to shortage of attendance, may be re-admitted when the same semester is offered in the next academic year for fulfillment of academic requirements. The academic regulations under which student has been readmitted shall be applicable. However, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which student has been detained.
- 7.8 A student detained due to lack of credits, shall be promoted to the next academic year only after acquiring the required academic credits. The academic regulations under which student has been readmitted shall be applicable to him.

Note: (1) The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum B grade in all the subjects.

(2) CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters.

8.0 Evaluation - Distribution and Weightage of marks

- 8.1 The performance of a student in every subject/course (including practicals and UG major project) will be evaluated for 100 marks each, with 25 marks allotted for CIE (Continuous Internal Evaluation) and 75 marks for SEE (Semester End-Examination).
- 8.2 For theory subjects, during a semester, there shall be two mid-term examinations. Each mid-term examination consists of one objective paper, one descriptive paper and one assignment. The objective paper and the essay paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for objective and 60 minutes for essay paper). The objective paper is set with 20 bits of multiple choice, fill-in the blanks and matching type of questions for a total of 10 marks. The essay paper shall contain 4 full

questions out of which, the student has to answer 2 questions, each carrying 5 marks. While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus. Five marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first mid-examination, and the second assignment should be submitted before the conduct of the second mid-examination. The total marks secured by the student in each mid-term examination are evaluated for 25 marks, and the average of the two mid-term examinations shall be taken as the final marks secured by each student in internals/sessionals. If any student is absent from any subject of a mid-term examination, an on-line test will be conducted for him by the university. The details of the question paper pattern are as follows,

- The end semester examinations will be conducted for 75 marks consisting of two parts viz. i) **Part - A** for 25 marks, ii) **Part - B** for 50 marks.
- Part-A is compulsory question which consists of ten sub-questions. The first five sub-questions are from each unit and carry 2 marks each. The next five sub-questions are one from each unit and carry 3 marks each.
- Part-B consists of five questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an "either" "or" choice, which means that there will be two questions from each unit and the student should answer either of the two questions.

8.3 For practical subjects there shall be a continuous internal evaluation during the semester for 25 sessional marks and 75 semester end examination marks. Out of the 25 marks for internal evaluation, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 10 marks conducted by the laboratory teacher concerned. The semester end examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the clusters of colleges which are decided by the examination branch of the university.

8.4 There shall be an Industrial Training in IV year I semester. For the Industrial Training, the student 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 IV year I semester and before the commencement of IV year II semester, the student shall submit satisfactory report of the work and certificate duly signed by the authority of training organization to the head of the institute.

8.5 **Practice School:** In the IV year I semester, every candidate shall undergo a 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 departmental 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). The report shall be submitted to the departmental committee consisting of Head of the Institution, Head of the Department and a senior faculty member. The practice school report shall be evaluated for 100 marks and grade point shall be awarded.

- 8.6 Out of a total of 100 marks for the UG major project, 25 marks shall be allotted for internal evaluation and 75 marks for the end semester examination (viva voce). The end semester examination of the project work shall be conducted by a committee consisting of external examiners, Head of the Department, supervisor of the project and a senior faculty member. The evaluation of UG major project shall be made at the end of IV year II semester. The internal evaluation shall be on the basis of two seminars given by each student on the topic of UG major project.
- 8.7 The laboratory marks and the sessional marks awarded by the college are subject to scrutiny and scaling by the university wherever necessary. In such cases, the sessional and laboratory marks awarded by the college will be referred to a committee. The committee will arrive at a scaling factor and the marks will be scaled accordingly. The recommendations of the committee are final and binding. The laboratory records and internal test papers shall be preserved in the respective institutions as per the university rules and produced before the committees of the university as and when asked for.
- 8.8 For mandatory courses environmental science, human values and professional ethics, gender sensitization lab and Industrial Training a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject course.
- 8.9 For mandatory courses NCC/ NSO and NSS, a 'satisfactory participation certificate' shall be issued to the students from the authorities concerned, only after securing $\geq 65\%$ attendance in such a course.
- 8.10 No marks or letter grade shall be allotted for all mandatory/non-credit courses.
- 9.0 **Grading procedure**
- 9.1 Marks will be awarded to indicate the performance of student in each theory subject, laboratory / practicals and UG major project. Based on the percentage of marks obtained (Continuous Internal Evaluation plus Semester End Examination, both taken together) as specified in item 8.9, a corresponding letter grade shall be given.
- 9.2 As a measure of the performance of student, a 10-point absolute grading system using the following letter grades (as per UGC/AICTE guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a Subject/Course (Class Average)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10

80 and less than 90%	A ⁺ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B ⁺ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	Ab	0

- 9.3 A student obtaining 'F' grade in any subject shall be deemed to have 'failed' and is required to reappear as a 'supplementary student' in the semester end examination, as and when offered. In such cases, internal marks in those subjects will remain the same as those obtained earlier.
- 9.4 A student who has not appeared for examination in any subject, 'Ab' grade will be allocated in that subject and student shall be considered 'failed'. Student will be required to reappear as a 'supplementary student' in the semester end examination, as and when offered.
- 9.5 A letter grade does not indicate any specific percentage of marks secured by the student, but it indicates only the range of percentage of marks.
- 9.6 A student earns grade point (GP) in each subject/ course, on the basis of the letter grade secured in that subject/ course. The corresponding 'credit points' (CP) are computed by multiplying the grade point with credits for that particular subject/ course.

Credit point (CP) = grade point (GP) x credits For a course

- 9.7 The student passes the subject/ course only when $GP \geq 5$ ('C' grade or above)
- 9.8 The semester grade point average (SGPA) is calculated by dividing the sum of credit points (ΣCP) secured from all subjects/ courses registered in a semester, by the total number of credits secured during that semester. SGPA is rounded off to two decimal places. SGPA is thus computed as

$$SGPA = \frac{\sum_{i=1}^N C_i \cdot G_i}{\sum_{i=1}^N C_i} \dots \text{For each semester,}$$

where 'i' is the subject index or index (takes into account all subjects in a semester), 'N' is the no. of subjects registered for the semester (as specifically required and listed under the course structure of the parent department), C_i is the no. of credits allotted to the i^{th} subject, and G_i is the grade points (GP) corresponding to the letter grade awarded for that subject.

- 9.9 The cumulative grade point average (CGPA) is a measure of the overall cumulative performance of a student in all semesters considered for registration. The CGPA is the ratio of the total credit points secured by a student in all registered courses in all semesters, and the total number of credits registered in all the semesters. CGPA is rounded off to two decimal places. CGPA is thus computed from the I year II semester onwards at the end of each semester as per the formula

$$CGPA = \frac{\sum_{i=1}^M C_i \cdot G_i}{\sum_{i=1}^M C_i} \dots \text{for all S semesters registered}$$

from 1st semester onwards up to and inclusive of the 8th semester, $S \geq 2$),

where 'M' is the total no. of subjects the student has 'registered' i.e., from the 1st semester onwards up to and inclusive of the 8th semester, 'j' is the subject indicator index (takes into account all subjects from 1 to 8 semesters), C_j is the no. of credits allotted to the jth subject, and G_j represents the grade points (GP) corresponding to the letter grade awarded for that subject. After registration and completion of first year first semester, the SGPA of that semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	O	10	$4 \times 10 = 40$
Course 3	4	C	5	$4 \times 5 = 20$
Course 4	3	B	6	$3 \times 6 = 18$
Course 5	3	A+	9	$3 \times 9 = 27$
Course 6	3	C	5	$3 \times 5 = 15$
	Total Credits = 21			Total Credit Points = 152

$$SGPA = 152/21 = 7.24$$

Illustration of calculation of CGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
I Year I Semester				
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	A+	9	$4 \times 9 = 36$
Course 3	4	B	6	$4 \times 6 = 24$
Course 4	3	O	10	$3 \times 10 = 30$
Course 5	3	B+	7	$3 \times 7 = 21$
Course 6	3	A	8	$3 \times 8 = 24$
I Year II Semester				
Course 7	4	B+	7	$4 \times 7 = 28$
Course 8	4	O	10	$4 \times 10 = 40$
Course 9	4	A	8	$4 \times 8 = 32$
Course 10	3	B	6	$3 \times 6 = 18$
Course 11	3	C	5	$3 \times 5 = 15$
Course 12	3	A+	9	$3 \times 9 = 27$
	Total Credits = 42			Total Credit Points = 327

$$CGPA = 327/42 = 7.79$$

9.10 For merit ranking or comparison purposes or any other listing, **only the 'rounded off' values of the CGPAs will be used.**

9.11 For calculations listed in regulations 9.6 to 9.9, performance in failed subjects/ courses (securing F grade) will also be taken into account, and the credits of such subjects/ courses will also be included in the multiplications and summations. After passing the failed subject(s) newly secured letter grades will be taken into account for calculation of SGPA and CGPA. However, mandatory courses will not be taken into consideration.

10.0 Passing standards

10.1 A student shall be declared successful or 'passed' in a semester, if student secures a $GP \geq 5$ ('C' grade or above) in every subject/course in that semester (i.e. when student gets an $SGPA \geq 5.00$ at the end of that particular semester); and a student shall be declared successful or 'passed' in the entire under graduate programme, only when gets a $CGPA \geq 5.00$ for the award of the degree as required.

10.2 After the completion of each semester, a grade card or grade sheet (or transcript) shall be issued to all the registered students of that semester, indicating the letter grades and credits earned. It will show the details of the courses registered (course code, title, no. of credits, and grade earned or credits earned, SGPA, and CGPA.

11.0 Declaration of results

11.1 Computation of SGPA and CGPA are done using the procedure listed in 9.6 to 9.9.

11.2 For final percentage of marks equivalent to the computed final CGPA, the following formula may be used.

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

12.0 Award of degree

12.1 A student who registers for all the specified subjects/ courses as listed in the course structure and secures the required number of 196 credits (with $CGPA \geq 5.0$), within 8 academic years from the date of commencement of the first academic year, shall be declared to have qualified for the award of the B.Pharm. degree.

12.2 A student who qualifies for the award of the degree as listed in item 12.1 shall be placed in the following classes.

12.3 Students with final CGPA (at the end of the under graduate programme) ≥ 8.00 , and fulfilling the following conditions -

- (i) Should have passed all the subjects/courses in 'first appearance' within the first 4 academic years (or 8 sequential semesters) from the date of commencement of first year first semester.
- (ii) Should have secured a $CGPA \geq 8.00$, at the end of each of the 8 sequential semesters, starting from first year first semester onwards.

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- (iii) Should not have been detained or prevented from writing the end semester examinations in any semester due to shortage of attendance or any other reason, shall be placed in 'First class with distinction'.

- 12.4 Students with final CGPA (at the end of the under graduate programme) ≥ 6.50 but < 8.00 , shall be placed in 'first class'.
- 12.5 Students with final CGPA (at the end of the under graduate programme) ≥ 5.50 but < 6.50 , shall be placed in 'second class'.
- 12.6 All other students who qualify for the award of the degree (as per item 12.1), with final CGPA (at the end of the under graduate programme) ≥ 5.00 but < 5.50 , shall be placed in 'pass class'.
- 12.7 A student with final CGPA (at the end of the under graduate programme) < 5.00 will not be eligible for the award of the degree.
- 12.8 Students fulfilling the conditions listed under item 12.3 alone will be eligible for award of 'university rank' and 'gold medal'.

13.0 Withholding of results

- 13.1 If the student has not paid the fees to the university/ college at any stage, or has dues pending due to any reason whatsoever, or if any case of indiscipline is pending, the result of the student may be withheld, and student will not be allowed to go into the next higher semester. The award of degree of the degree may also be withheld in such cases.

14.0 Transitory regulations

A. For students detained due to shortage of attendance:

1. A Student who has been detained in I year of R09/R13/R15/R16 Regulations due to lack of attendance, shall be permitted to join I year I Semester of R17 Regulations and he is required to complete the study of B. Pharmacy programme within the stipulated period of eight academic years from the date of first admission in I Year.
2. A student who has been detained in any semester of II, III and IV years of R09/R13/R15/R16 regulations due to shortage of attendance, shall be permitted to join the corresponding semester of R17 regulations and is required to complete the study of B. Pharmacy within the stipulated period of eight academic years from the date of first admission in I Year. The R17 Regulations under which a student has been readmitted shall be applicable to that semester.

See rule (C) for further Transitory Regulations.

B. For students detained due to shortage of credits:

3. A student of R09/R13/R15/R16 Regulations who has been detained due to lack of credits, shall be permitted to join the next semester of R17 Regulations only after acquiring the required credits as per the corresponding regulations of his/her first admission. The student is required to complete the study of B. Pharmacy within the stipulated period of

eight academic years from the year of first admission. The R17 Academic Regulations are applicable to a student from the year of readmission onwards.

See rule (C) for further Regulatory Regulations.

C. For readmitted students in R17 Regulations:

4. A student who has failed in any subject under any regulation has to pass those subjects in the same regulation.
5. The maximum marks that a student acquires for the award of degree, shall be the sum of the total number of marks secured in all the regulations of his/her study including R17 Regulations. The performance evaluation of the student will be done after the exemption of two subjects if total credits acquired are ≤ 206 , three subjects if total credits acquired are > 206 (see R17 Regulations for exemption details).
6. If a student readmitted to R17 Regulations, has any subject with 80% of syllabus common with his/her previous regulations, that particular subject in R17 Regulations will be substituted by a new subject to be suggested by the University.

Note: If a student readmitted to R17 Regulations, has not studied any subjects/topics in his/her earlier regulations which is prerequisite for further subjects in R17 Regulations, the College/Institute concerned shall conduct remedial classes to cover those subjects/topics for the benefit of the students.

15.0 Student transfer

15.1 There shall be no transfers after the completion of admission process.

15.2 There shall be no transfers from one college/stream to another within the constituent colleges and its constituent Bharat Nehru Technological University Hyderabad.

15.3 The students coming transfer to colleges affiliated to JNTUH from various other Universities/institutions have to pass the failed subjects which are equivalent to the subjects of JNTUH and also pass the subjects of JNTUH which the students have not studied at the earlier institutions. Further, though the students have passed some of the subjects at the earlier institutions, if the same subjects are prescribed in different semesters of JNTUH the students have to study those subjects in JNTUH in spite of the fact that those subjects are repeated.

15.4 The transferred students from other Universities/institutions to JNTUH affiliated colleges who are on a clearance letter (equivalence) have one chance to write the CBT (internal marks) in the failed subjects and/or subjects not studied as per the clearance letter issued by the university.

15.5 The autonomous affiliated colleges have to provide one chance to write the internal examinations in the failed subjects and/or subjects not studied, to the students transferred from other Universities/institutions to JNTUH autonomous affiliated colleges who are on a clearance letter (equivalence) letter issued by the University.

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16.0 Scope

- 16.1 The academic regulations should be read as a whole, for the purpose of any interpretation.
- 16.2 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- 16.3 The university may change or amend the academic regulations, course structure or syllabi at any time, and the changes or amendments made shall be applicable to all students with effect from the date notified by the university authorities.



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(Established by Govt No. 30 of 2008)

Kulkarnully, Hyderabad, Telangana (India).

Academic Regulations for B.Pharm. (Lateral Entry Scheme) w.e.f the AY 2018-19

1. Eligibility for award of B.Pharm. Degree (LES)

The LES students after securing admission shall pursue a course of study for not less than three academic years and not more than six academic years.

2. The student shall register for 147 credits and secure 147 credits with CGPA ≥ 5 from II year to IV year of the programme (LES) for the award of B.Pharm. degree. Out of the 147 credits secured, the student can avail exemption up to 6 credits, that is, two open elective subjects resulting in 141 credits for B.Pharm programme performance evaluation.

3. The students, who fail to fulfil the requirement for the award of the degree in six academic years from the year of admission, shall forfeit their seat in B.Pharm.

4. The attendance and discipline of B. Pharm. (Regular) shall be applicable to B.Pharm. (LES).

5. Promotion rule

S. No	Promotion	Conditions to be fulfilled
1	Second year second semester to second year second semester	Regular course of study of second year first semester.
2	Second year second semester to third year first semester	(i) Regular course of study of second year second semester. (ii) Must have secured at least 29 credits out of 48 credits i.e. 29 credits up

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		to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3	Third year first semester to third year second semester	Regular course of study of third year first semester.
4	Third year second semester to fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 58 credits out of 96 credits i.e., 60% of credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

6. All the other regulations as applicable to B. Pharm. 4-year degree course (Regular) will hold good for B. Pharm. (Lateral Entry Scheme).

MALPRACTICES RULES

DISCIPLINARY ACTION FOR/IMPROPER CONDUCT IN EXAMINATIONS

	Nature of offence/Improper conduct	Punishment
	If the student:	
1. (a)	Possesses or keeps accessible in examination hall any paper, note book, programmable calculator, cell phones, pager, tablet computers or any other form of writing or concerned with or related to the subject of the examination (theory or practical) in which student is appearing. Does not make use of (material which is already marked on the body of a question paper can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	Gives assistance or receives it from any student in any way or by any other means or methods or	Expulsion from the examination hall and cancellation of the performance in that subject only of all the students involved. In case of an

	communicates the right cell phones with any student or person in outside the exam hall in any manner.	outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculator, past question paper or any other thing which is relevant to the subject of the examination (theory or practical) in which the student is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The hall ticket of the student is to be cancelled and sent to the university.
3.	Impersonates any other student in connection with examination.	The student who has impersonated shall be expelled from examination hall. The student is also debarred and forfeits the seat. The performance of the original student who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and UG major project) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the answer book or additional sheet and/or arranges to send out the answer paper during the examination or answer book or additional sheet during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses obscene, vulgar or offensive language in the answer paper or in letters to the examiner or writes to the examiner requesting for upward pass marks.	Cancellation of the performance in that subject.

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6.	Refuses to obey the orders of the chief superintendent or any officer on duty or misbehaves or causes disturbance of any kind in and around the examination hall or organizes a strike or instigates others to walk out or intimidates the officer-in-charge or any person on duty in or outside the examination hall or any of his relations or commits any other act of misconduct or any other act which results in damage or destruction of property in the examination hall or any part of the university or engages in any other misconduct in the opinion of the officer-in-charge or has the tendency to do so or has the tendency to use unfair means or has the tendency of the conduct of the candidate.	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the student(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The students also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7.	Leaves the examination hall taking away answers or signs or tearing away tears of the script or any part of it inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess and use of weapons or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat.
9.	If student is not a student of the college.	Students of the colleges expulsion from the examination hall and cancellation of the

	any person who is involved with the college in the practice of improper conduct as mentioned in clause 6 to 8.	performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat. Persons who do not belong to the college will be handed over to police and, a police case will be registered against them.
10.	Comes in a poor condition to the examination hall.	Exclusion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence such as, during valuation or while presenting.	Cancellation of the performance in that subject and all other subjects the student has appeared including practical examinations and UG major project of that semester/year examinations.
12.	If any malpractice is detected which is not covered in clauses 1 to 11 shall be reported to the university for further action as per suitable punishment.	

Malpractices identified by the squad for special investigations.

1. Punishments to be given as per the above guidelines.
2. Punishment for members of the squad report that the college is also involved in encouraging malpractices.
 - a. A show cause notice shall be issued to the college.
 - b. Impose a fine on the college.
 - c. Shifting the examination centre from the college to another college for a specific period of not less than one year.

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भारत का राजपत्र The Gazette of India

साप्ताहिक/WEEKLY

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

भाग III—खण्ड 4

[PART III—SECTION 4]

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

भारतीय रिज़र्व बैंक

मुंबई-400001, दिनांक 9 अप्रैल 2008

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

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

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

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

New Delhi, 10th May, 2008.

Pharm.D. Regulations 2008

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

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

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

CHAPTER-I

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

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CHAPTER-II

3. Duration of the course. –

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

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

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

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

Phase I – consisting of First and Second academic year.

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

4. Minimum qualification for admission to. –

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

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

Mathematics or Biology.

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

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

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

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

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

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

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

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

TABLES

First Year :

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

* For Biology

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Second Year:

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

Third Year:

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

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Fourth Year:

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

Fifth Year:

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

* Attending ward rounds on daily basis.

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Sixth Year:

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

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

8. Syllabus. – The syllabus for each subject of study in the said Tables shall be as specified in Appendix -A to these regulations.
9. Approval of the authority conducting the course of study. – (1) No person, institution, society or university shall start and conduct Pharm.D or Pharm.D. (Post Baccalaureate) programme without the prior approval of the Pharmacy Council of India.
 - (2) Any person or pharmacy college for the purpose of obtaining permission under sub-section (1) of section 12 of the Pharmacy Act, shall submit a scheme as prescribed by the Pharmacy Council of India.
 - (3) The scheme referred to in sub-regulation (2) above, shall be in such form and contain such particulars and be preferred in such manner and be accompanied with such fee as may be prescribed:

Provided that the Pharmacy Council of India shall not approve any institution under these regulations unless it provides adequate arrangements for teaching in regard to building, accommodation, labs., equipments, teaching staff, non-teaching staff, etc., as specified in Appendix-B to these regulations.
10. Examination. – (1) Every year there shall be an examination to examine the students.
 - (2) Each examination may be held twice every year. The first examination in a year shall be the annual examination and the second examination shall be supplementary examination.
 - (3) The examinations shall be of written and practical (including oral nature) carrying maximum marks for each part of a subject as indicated in Tables below :

TABLES**First Year examination :**

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

* for Biology.

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Second Year examination :

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

Third Year examination :

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

Fourth Year examination :

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

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Fifth Year examination :

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

* Attending ward rounds on daily basis.

** 30 marks – viva-voce (oral)

70 marks – Thesis work

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

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

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

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

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

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

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

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

- Actual performance in the sessional examination (20 marks);
- Day to day assessment in the practical class work, promptness, viva-voce record maintenance, etc.

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

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CHAPTER-III

Practical training

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

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23. Reporting .— (1) Student working on the project shall submit jointly to the Head of the Department or Head of the Institution a project report of about 40-50 pages. Project report should include a certificate issued by the authorised teacher, Head of the Department as well as by the Head of the Institution

(2) Project report shall be computer typed in double space using Times Roman font on A4 paper. The title shall be in bold with font size 18, sub-titles in bold with font size 14 and the text with font size 12. The cover page of the project report shall contain details about the name of the student and the name of the authorised teacher with font size 14.

(3) Submission of the project report shall be done at least one month prior to the commencement of annual or supplementary examination.

24. Evaluation.— The following methodology shall be adopted for evaluating the project work—

(i) Project work shall be evaluated by internal and external examiners.

(ii) Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of four students).

(iii) Three seminars presented by students shall be evaluated for twenty marks each and the average of best two shall be forwarded to the university with marks of other subjects.

(iv) Evaluation shall be done on the following items:

Marks

a) Write up of the seminar

(7.5)

b) Presentation of work

(7.5)

c) Communication skills

(7.5)

d) Question and answer skills

(7.5)

Total

(30 marks)

(v) Final evaluation of project work shall be done on the following items: **Marks**

a) Write up of the seminar

(17.5)

b) Presentation of work

(17.5)

c) Communication skills

(17.5)

d) Question and answer skills

(17.5)

Total

(70 marks)

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

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Act No.30 of 2008)

Kukatpally, Hyderabad-500085, Telangana State (India)

**Academic Regulations of M.Pharm. (Regular/Full Time) Programmes, 2019-20 (R19)
(CBCS)**

(Effective for the students admitted into 1 year from the Academic Year 2019-20 and onwards)

- 1.0 **Post-Graduate Degree Programmes in Pharmacy (PGP in Pharmacy)** Jawaharlal Nehru Technological University Hyderabad (JNTUH) offers **Two Years (Four Semesters)** full-time Master of Pharmacy (M.Pharm.) Degree programmes, under Choice Based Credit System (CBCS) at its constituent (non-autonomous) and affiliated colleges in different specializations.
- 2.0 **Eligibility for Admissions**
 - 2.1 Admission to the PGPs shall be made subject to eligibility, qualification and specializations prescribed by the University from time to time, for each specialization under each M.Pharm. programme.
 - 2.2 Admission to the post graduate programme shall be made on the basis of either the merit rank or Percentile obtained by the qualified student in the relevant qualifying GPAT Examination/ the merit rank obtained by the qualified student in an entrance test conducted by Telangana State Government (PGECET) for M.Pharm. programmes / an entrance test conducted by JNTUH/ on the basis of any other exams approved by the University, subject to reservations as laid down by the Govt. from time to time.
 - 2.3 The medium of instructions for all PG Programmes will be **ENGLISH** only.
- 3.0 **M.Pharm. Programme (PGP in Pharmacy) Structure**
 - 3.1 The M.Pharm. Programmes in Pharmacy of JNTUH are of Semester pattern, with **Four** Semesters consisting of **Two** academic years, each academic year having **Two** Semesters (First/Odd and Second/Even Semesters). Each Semester shall be of **22** weeks duration (inclusive of Examinations), with a minimum of 90 instructional days per Semester.
 - 3.2 The student shall not take more than four academic years to fulfill all the academic requirements for the award of M.Pharm. degree from the date of commencement of first year first semester, failing which the student shall forfeit the seat in M.Pharm. programme.
 - 3.3 **UGC/AICTE** specified definitions/descriptions are adopted appropriately for various terms and abbreviations used in these PG academic regulations, as listed below:
 - 3.3.1 **Semester Scheme**

Each Semester shall have 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) are taken as 'references' for the present set of Regulations. The terms 'SUBJECT' and 'COURSE' imply the same meaning here and refer to 'Theory Subject', or 'Lab Course', or 'Design/Drawing Subject', or 'Mini Project with Seminar', or 'Dissertation', as the case may be.
 - 3.3.2 **Credit Courses**

All subjects/courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/course in an L: T: P: C (Lecture Periods: Tutorial Periods: Practical Periods: Credits) structure based on the following general pattern:



- One credit for one hour/week/semester for theory/lecture (L) courses
- One credit for two hours/ week/semester for laboratory/ practical (P) courses or tutorials (T)

Other student activities like study tour, guest lecture, conference/workshop participations, technical paper presentations and mandatory courses (**Audit Courses**) will not carry any credits.

3.3.3 Subject Course Classification

All subjects/courses offered for the Post-Graduate Programme in Pharmacy (M.Pharm. Degree Programme) are broadly classified as follows. The University has followed in general the guidelines issued by AICTE/UGC.

S.No.	Broad Course Classification	Course Group/ Category	Course Description
1	Core Courses (CoC)	PC- Professional Core	Includes subjects related to the Specialization in Pharmacy
		Dissertation	M.Pharm. Project or PG Project or Major Project
		Mini Project with Seminar	Seminar based on core contents related to the Specialization in Pharmacy
2	Elective Courses (EiE)	PE - Professional Electives	Includes elective subjects related to the Specialization in Pharmacy
		OE - Open Electives	Elective subjects which include inter-disciplinary subjects or subjects in an area outside the Specialization in Pharmacy
3	Mandatory Courses	--	Non-Credit Audit Courses

4.0 Course Registration

- 4.1 A 'Faculty Advisor or Counselor' shall be assigned to each specialization, who will advise on the Post Graduate Programme (PGP), its Course Structure and Curriculum, Choice/Option for Subjects/ Courses, based on his competence, progress, pre-requisites and interest.
- 4.2 The Academic Section of the College invites 'Registration Forms' from students within 15 days from the commencement of class work through 'ON-LINE SUBMISSIONS', ensuring 'DATE and TIME Stamping'. The ON-LINE Registration Requests for any 'CURRENT SEMESTER' shall be completed BEFORE the commencement of SEEs (Semester End Examinations) of the 'PRECEDING SEMESTER'.
- 4.3 A Student can apply for ON-LINE Registration, ONLY AFTER obtaining the 'WRITTEN APPROVAL' from his Faculty Advisor, which should be submitted to the College Academic Section through the Head of Department (a copy of it being retained with Head of Department, Faculty Advisor and the Student).
- 4.4 If the Student submits ambiguous choices or multiple options or erroneous entries during ON-LINE Registration for the Subject(s) / Course(s) under a given/ specified Course Group/ Category as listed in the Course Structure, only the first mentioned Subject/ Course in that Category will be taken into consideration.
- 4.5 Subject/ Course Options exercised through ON-LINE Registration are final and CANNOT be changed, nor can they be inter-changed; further, alternate choices also will not be considered. However, if the Subject/ Course that has already been listed for Registration by the University in a Semester could not be offered due to unforeseen or unexpected reasons, then the Student will be allowed to have alternate



wise, with a maximum of 100 marks per subject / course (theory / practical), based on Internal Evaluation and Semester End Examination.

- 6.1 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/course, if he secures not less than 40% of marks (30 out of 75 marks) in the End Semester Examination, and a minimum of 50% of marks in the sum total of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of Letter Grades and this implies securing 'B' Grade or above in a subject.
- 6.2 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to Mini Project with seminar, if student secures not less than 50% marks (i.e. 50 out of 100 allotted marks). The student would be treated as failed, if student (i) does not submit a seminar report on Mini Project or does not make a presentation of the same before the evaluation committee as per schedule or (ii) secures less than 50% marks in Mini Project with seminar evaluation. The failed student shall reappear for the above evaluation when the notification for supplementary examination is issued.
- 6.3 A student shall register for all subjects for total of 68 credits as specified and listed in the course structure for the chosen specialization, put in required the attendance and fulfill the academic requirements for securing 68 credits obtaining a minimum of 'B' Grade or above in each subject, and all 68 credits securing Semester Grade Point Average (SGPA) ≥ 6.0 (in each semester) and final Cumulative Grade Point Average (CGPA) (i.e., CGPA at the end of PGP) ≥ 6.0 , and shall **pass all the mandatory(audit) courses** to complete the PGP successfully.

Note: (1) The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum B grade in all the subjects.

(2) CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters

- 6.4 Marks and Letter Grades obtained in all those subjects covering the above specified 68 credits alone shall be considered for the calculation of final CGPA, which will be indicated in the Grade Card /Marks Memo of second year second semester.
- 6.5 If a student registers for extra subject(s) (in the parent specialization or other specializations of Pharmacy) other than those listed subjects totaling to 68 credits as specified in the course structure, the performance in extra subject(s) (although evaluated and graded using the same procedure as that of the required 68 credits) will not be considered while calculating the SGPA and CGPA. For such extra subject(s) registered, percentage of marks and Letter Grade alone will be indicated in the Grade Card/Marks Memo, as a performance measure, subject to completion of the attendance and academic requirements as stated in items 5 and 6.1 - 6.3.
- 6.6 When a student is detained due to shortage of attendance in any subject(s) in any semester, no Grade allotment will be made for such subject(s). However, he is eligible for re-registration of such subject(s) in the subsequent semester(s), as and when next offered, with the academic regulations of the batch into which he is re-registered, by paying the prescribed fees per subject. In all these re-registration cases, the student shall have to secure a fresh set of internal marks and Semester End Examination marks for performance evaluation in such subject(s), and SGPA/CGPA calculations.
- 6.7 A student eligible to appear for the Semester End Examination in any subject, but absent from it or failed (failing to secure 'B' Grade or above), may reappear for that subject at the supplementary examination as and when conducted. In such cases, his Internal Marks assessed earlier for that subject will be carried over, and added to the marks secured in the supplementary examination, for



the purpose of evaluating his performance in that subject.

- 6.8 A Student who fails to earn 68 credits as per the specified course structure, and as indicated above, within four academic years from the date of commencement of his first year first semester, shall forfeit his seat in M.Pharm. programme and his admission shall stand cancelled.

7.0 Evaluation - Distribution and Weightage of Marks

The performance of a student in each semester shall be evaluated subject- wise (irrespective of credits assigned) for a maximum of 100 marks.

- 7.1 For the theory subjects 75 marks shall be awarded for the performance in the Semester End Examination and 25 marks shall be awarded for Continuous Internal Evaluation (CIE). The Continuous Internal Evaluation shall be made based on the average of the marks secured in the two Mid-Term Examinations conducted, first Mid-Term examinations in the middle of the Semester and second Mid-Term examinations during the last week of instruction. Each Mid-Term Examination shall be conducted for a total duration of 120 minutes with Part 'A' as compulsory consisting of 5 questions carrying 2 marks each (10 marks), and Part 'B' with 3 questions to be answered out of 5 questions, each question carrying 5 marks (15 marks). The details of the Question Paper pattern for Semester End Examination (Theory) are given below:
- The Semester End Examination will be conducted for 75 marks. It consists of two parts.
i) Part A for 25 marks, ii) Part B for 50 marks.
 - Part A is compulsory and consists of 5 questions, one from each unit and carrying 5 marks each.
 - Part B consists of 5 questions carrying 10 marks each. There will be two questions from each unit and only one should be answered.
- 7.2 For practical subjects, 75 marks shall be awarded for performance in the Semester End Examinations and 25 marks shall be awarded for day-to-day performance as Internal Marks.
- 7.3 For conducting laboratory end examinations of all PG Programmes, one internal examiner and one external examiner are to be appointed by the Principal of the College and this is to be informed to the Director of Evaluation within two weeks, before commencement of the lab end examinations. The external examiner should be selected from outside the College concerned but within the cluster. No external examiner should be appointed from any other College in the same cluster/any other cluster which is run by the same Management.
- 7.4 There shall be Mini Project with Seminar during I year II semester for internal evaluation of 100 marks. The Departmental Academic Committee (DAC) will review the progress of the mini project during the seminar presentations and evaluate the same for 50 marks. Mini Project Viva Voce will be evaluated by the DAC for another 50 marks before the semester end examinations. Student shall carryout the mini project in consultation with the mini project supervisor which may include critically reviewing the literature, project implementation and submit it to the department in the form of a report and shall make an oral presentation before the DAC consisting of Head of the Department, Mini Project supervisor and two other senior faculty members of the department. The student has to secure a minimum of 50% of marks in i) seminar presentation and ii) mini project viva voce, to be declared successful. If he fails to obtain the minimum marks, he has to reappear for the same as and when scheduled.
- 7.5 Every candidate shall be required to submit a dissertation on a topic approved by the Dissertation Review Committee.
- 7.6 A Dissertation Review Committee (DRC) shall be constituted with the Head of the Department as



Chairperson, Dissertation Supervisor and one senior faculty member of the Department offering the M.Pharm. programme.

- 7.7 Registration of Dissertation Work: A candidate is permitted to register for the Dissertation Work after satisfying the attendance requirement in all the subjects, both theory and laboratory.
- 7.8 After satisfying 7.7, a candidate must present in Dissertation Work Review - I, in consultation with his Dissertation Supervisor, the title, objective and plan of action of his Dissertation work to the Dissertation Review Committee (DRC) for approval within four weeks from the commencement of Second year First Semester. Only after obtaining the approval of the DRC can the student initiate the Dissertation work.
- 7.9 If a candidate wishes to change his supervisor or topic of the Dissertation, he can do so with the approval of the DRC. However, the DRC shall examine whether or not the change of topic/supervisor leads to a major change of his initial plans of Dissertation proposal. If yes, his date of registration for the project work starts from the date of change of Supervisor or topic as the case may be.
- 7.10 A candidate shall submit his Dissertation progress report in two stages at least with a gap of three months between them.
- 7.11 The work on the Dissertation shall be initiated at the beginning of the II year and the duration of the Dissertation is two semesters. A candidate is permitted to submit Dissertation Thesis only after successful completion of all theory and practical courses with the approval of DRC not earlier than 40 weeks from the date of approval of the Dissertation work. For the approval of DRC the candidate shall submit the draft copy of thesis to the Head of the Department and make an oral presentation before the DRC.
- 7.12 The Dissertation Work Review - II in II Year I Sem. carries internal marks of 100. Evaluation should be done by the DRC for 50 marks and the Supervisor will evaluate the work for the other 50 marks. The Supervisor and DRC will examine the Problem Definition, Objectives, Scope of Work, Literature Survey in the same domain and progress of the Dissertation Work. A candidate has to secure a minimum of 50% of marks to be declared successful in Dissertation Work Review - II. If he fails to obtain the minimum required marks, he has to reappear for Dissertation Work Review - II as and when conducted.
- 7.13 The Dissertation Work Review - III in II Year II Sem. carries 100 internal marks. Evaluation should be done by the DRC for 50 marks and the Supervisor will evaluate it for the other 50 marks. The DRC will examine the overall progress of the Dissertation Work and decide whether or not the Dissertation is eligible for final submission. A candidate has to secure a minimum of 50% of marks to be declared successful in Dissertation Work Review - III. If he fails to obtain the required minimum marks, he has to reappear for Dissertation Work Review - III as and when conducted. For Dissertation Evaluation (Viva Voce) in II Year II Sem. there are external marks of 100 and it is evaluated by the external examiner. The candidate has to secure a minimum of 50% marks in Dissertation Evaluation (Viva-Voce) examination.
- 7.14 Dissertation Work Reviews - II and III shall be conducted in phase I (Regular) and Phase II (Supplementary). Phase II will be conducted only for unsuccessful students in Phase I. The unsuccessful students in Dissertation Work Review - II (Phase II) shall reappear for it at the time of Dissertation Work Review - III (Phase I). These students shall reappear for Dissertation Work Review - III in the next academic year at the time of Dissertation Work Review - II only after completion of Dissertation Work Review - II, and then Dissertation Work Review - III follows. The unsuccessful students in Dissertation Work Review - III (Phase II) shall reappear for Dissertation Work Review - III in the next academic year only at the time of Dissertation Work Review - II (Phase I).



- 7.15 After approval from the DRC, a soft copy of the thesis should be submitted for ANTI-PLAGIARISM check and the plagiarism report should be submitted to the University and be included in the final thesis. The Thesis will be accepted for submission, if the similarity index is less than 30%. If the similarity index has more than the required percentage, the student is advised to modify accordingly and re-submit the soft copy of the thesis after one month. The maximum number of re-submissions of thesis after plagiarism check is limited to TWO. The candidate has to register for the Dissertation work and work for two semesters. After three attempts, the admission is liable to be cancelled. The college authorities are advised to make plagiarism check of every soft copy of theses before submissions.
- 7.16 Three copies of the Dissertation Thesis certified by the supervisor shall be submitted to the College/School/Institute, after submission of a research paper related to the Dissertation work in a UGC approved journal. A copy of the submitted research paper shall be attached to thesis.
- 7.17 The thesis shall be adjudicated by an external examiner selected by the University. For this, the Principal of the College/School/Institute shall submit a panel of **three** examiners from among the list of experts in the relevant specialization as submitted by the supervisor concerned and Head of the Department.
- 7.18 If the report of the external examiner is unsatisfactory, the candidate shall revise and resubmit the Thesis. If the report of the examiner is unsatisfactory again, the thesis shall be summarily rejected. Subsequent actions for such dissertations may be considered, only on the specific recommendations of the external examiner and /or Dissertation Review Committee. No further correspondence in this matter will be entertained, if there is no specific recommendation for resubmission.
- 7.19 If the report of the examiner is satisfactory, the Head of the Department shall coordinate and make arrangements for the conduct of Dissertation Viva-Voce examination. The Dissertation Viva-Voce examination shall be conducted by a board consisting of the Supervisor, Head of the Department and the external examiner who adjudicated the Thesis. The candidate has to secure a minimum of 50% of marks in Dissertation Evaluation (Viva-Voce) examination.
- 7.20 If he fails to fulfill the requirements as specified in 7.19, he will reappear for the Dissertation Viva-Voce examination only after three months. In the reappeared examination also, if he fails to fulfill the requirements, he will not be eligible for the award of the degree, unless he is asked to revise and resubmit his Dissertation Work by the board within a specified time period (within four years from the date of commencement of his first year first semester).
- 7.21 The Dissertation Viva-Voce External examination marks must be submitted to the University on the day of the examination.
- 7.22 *For mandatory(audit) courses, a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course. These marks should also be uploaded along with the internal marks of other subjects.*
- 7.23 *No marks or letter grades shall be allotted for mandatory(audit) courses. Only Pass/Fail shall be indicated in Grade Card.*
- 8.0 **Re-Admission/Re-Registration**
- 8.1 **Re-Admission for Discontinued Student**

A student, who has discontinued the M.Pharm. degree programme due to any reason whatsoever, may be considered for 'readmission' into the same degree programme (with the same specialization) with the academic regulations of the batch into which he gets readmitted, with prior permission from the authorities concerned, subject to item 6.6.



- 8.2 If a student is detained in a subject (s) due to shortage of attendance in any semester, he may be permitted to **re-register** for the same subject(s) in the same category (core or elective group) or equivalent subject, if the same subject is not available, as suggested by the Board of Studies of that department, as and when offered in the subsequent semester(s), with the academic regulations of the batch into which he seeks re-registration, with prior permission from the authorities concerned, subject to item 3.2
- 8.3 A candidate shall be given one chance to re-register and attend the classes for a maximum of two subjects, if the internal marks secured by a candidate are less than 50% and failed in those subjects but fulfilled the attendance requirement. A candidate must re-register for failed subjects within four weeks of commencement of the class work and secure the required minimum attendance. In the event of the student taking this chance, his Continuous Internal Evaluation (internal) marks and Semester End Examination marks obtained in the previous attempt stand cancelled.

9.0 Examinations and Assessment - The Grading System

- 9.1 Grades will be awarded to indicate the performance of each student in each Theory Subject, or Lab/Practicals, or Mini Project with Seminar, Dissertation, etc., based on the percentage of marks obtained in CIE + SEE (Continuous Internal Evaluation + Semester End Examination, both taken together) as specified in Item 7 above, and a corresponding Letter Grade shall be given.
- 9.2 As a measure of the student's performance, a 10-point Absolute Grading System using the following Letter Grades (UGC Guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
90% and above ($\geq 90\%$, $\leq 100\%$)	O (Outstanding)	10
Below 90% but not less than 80% ($\geq 80\%$, $< 90\%$)	A ⁺ (Excellent)	9
Below 80% but not less than 70% ($\geq 70\%$, $< 80\%$)	A (Very Good)	8
Below 70% but not less than 60% ($\geq 60\%$, $< 70\%$)	B ⁺ (Good)	7
Below 60% but not less than 50% ($\geq 50\%$, $< 60\%$)	B (above Average)	6
Below 50% ($< 50\%$)	F (FAIL)	0
Absent	Ab	0

- 9.3 A student obtaining F Grade in any Subject is deemed to have 'failed' and is required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted. In such cases, his Internal Marks (CIE Marks) in those subjects will remain as obtained earlier.
- 9.4 If a student has not appeared for the examinations, 'Ab' Grade will be allocated to him for any subject and shall be considered 'failed' and will be required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted.
- 9.5 A Letter Grade does not imply any specific marks percentage; it is only the range of percentage of marks.
- 9.6 In general, a student shall not be permitted to repeat any Subject/ Course (s) only for the sake of 'Grade Improvement' or 'SGPA/ CGPA Improvement'.

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- 9.7 A student earns Grade Point (GP) in each Subject/ Course, on the basis of the Letter Grade obtained by him in that Subject/ Course. The corresponding 'Credit Points' (CP) are computed by multiplying the Grade Point with Credits for that particular Subject/ Course.

$$\text{Credit Points (CP)} = \text{Grade Point (GP)} \times \text{Credits} \dots \text{For a Course}$$

- 9.8 The student passes the Subject/ Course only when he gets GP ≥ 6 (B Grade or above).
- 9.9 The Semester Grade Point Average (SGPA) is calculated by dividing the Sum of Credit Points (ΣCP) secured from ALL Subjects/ Courses registered in a Semester, by the Total Number of Credits registered during that Semester. SGPA is rounded off to TWO Decimal Places. SGPA is thus computed as

$$\text{SGPA} = \left\{ \sum_{i=1}^N C_i G_i \right\} / \left\{ \sum_{i=1}^N C_i \right\} \dots \text{For each Semester,}$$

where 'i' is the Subject indicator index (taking into account all Subjects in a Semester), 'N' is the no. of Subjects 'REGISTERED' for the Semester (as specifically required and listed under the Course Structure of the parent Department), C_i is the no. of Credits allotted to the i^{th} Subject, and G_i represents the Grade Points (GP) corresponding to the Letter Grade awarded for that i^{th} Subject.

- 9.10 The Cumulative Grade Point Average (CGPA) is a measure of the overall cumulative performance of a student over all Semesters considered for registration. The CGPA is the ratio of the Total Credit Points secured by a student in ALL registered Courses in ALL Semesters, and the Total Number of Credits registered in ALL the Semesters. CGPA is rounded off to TWO Decimal Places. CGPA is thus computed from the I Year Second Semester onwards, at the end of each Semester, as per the formula

$$\text{CGPA} = \left\{ \sum_{i=1}^M C_i G_i \right\} / \left\{ \sum_{i=1}^M C_i \right\} \dots \text{for all S Semesters registered}$$

(ie., upto and inclusive of S Semesters, $S \geq 2$),

where 'M' is the TOTAL no. of Subjects (as specifically required and listed under the Course Structure of the parent Department) the Student has 'REGISTERED' for from the 1st Semester onwards upto and inclusive of the Semester S (obviously $M > N$), 'j' is the Subject indicator index (taking into account all Subjects from 1 to S Semesters), C_j is the no. of Credits allotted to the j^{th} Subject, and G_j represents the Grade Points (GP) corresponding to the Letter Grade awarded for that j^{th} Subject. After registration and completion of I Year I Semester however, the SGPA of that Semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade points	Credit Points
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	O	10	$4 \times 10 = 40$
Course 3	4	B	6	$4 \times 6 = 24$
Course 4	3	B	6	$3 \times 6 = 18$
Course 5	3	A+	9	$3 \times 9 = 27$
Course 6	3	B	6	$3 \times 6 = 18$
	21			159



$$\text{SGPA} = 159/21 = 7.57$$

Illustration of calculation of CGPA

Semester	Credits	SGPA	Credits * SGPA
Semester I	24	7	24*7 = 168
Semester II	24	6	24*6 = 144
Semester III	24	6.5	24*6.5 = 156
Semester IV	24	6	24*6 = 144
	96		612

$$\text{CGPA} = 612/96 = 6.37$$

10.0 Award of Degree and Class

- 10.1 If a student who registers for all the specified Subjects/ Courses as listed in the Course Structure, satisfies all the Course Requirements, and passes the examinations prescribed in the entire PG Programme (PGP), and secures the required number of **68 Credits** (with CGPA ≥ 6.0), shall be declared to have 'QUALIFIED' for the award of the M.Pharm. Degree in the chosen specialization of Pharmacy that he was admitted into.

10.2 Award of Class

After a student has earned the requirements prescribed for the completion of the programme and is eligible for the award of M.Pharm. Degree, he shall be placed in one of the following three classes based on the CGPA:

Class Awarded	CGPA
First Class with Distinction	≥ 7.75
First Class	$6.75 \leq \text{CGPA} < 7.75$
Second Class	$6.00 \leq \text{CGPA} < 6.75$

A student with final CGPA (at the end of the PGP) < 6.00 shall not be eligible for the Award of Degree.

11.0 Withholding of Results

If the student has not paid the dues, if any, to the University or if any case of indiscipline is pending against him, the result and degree of the student will be withheld and he will not be allowed into the next semester.

12.0 General

- 12.1 **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.
- 12.2 **Credit Point:** It is the product of grade point and number of credits for a course.
- 12.3 Wherever the words "he", "him", "his", occur in the regulations, they shall include "she", "her".
- 12.4 The academic regulation should be read as a whole for the purpose of any interpretation.



- 12.5 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the University is final.
- 12.6 The University may change or amend the academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the University.

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**MALPRACTICES RULES****DISCIPLINARY ACTION FOR IMPROPER CONDUCT IN EXAMINATIONS**

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



	answer book or additional sheet, during or after the examination.	appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the Chief Superintendent/Assistant – Superintendent/ any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in- charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the



		remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat.
9.	If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the University for further action to award suitable punishment.	

Malpractices identified by squad or special invigilators

1. Punishments to the candidates as per the above guidelines.
2. Punishment for institutions: (if the squad reports that the college is also involved in encouraging malpractices)
 - (i) A show cause notice shall be issued to the college.
 - (ii) Impose a suitable fine on the college.
 - (iii) Shifting the examination centre from the college to another college for a specific period of not less than one year

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2021-22

B. TECH./B.PHARM. I YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Induction programme	09.12.2021 to 18.12.2021	
2	1 st Spell of Instructions	20.12.2021	12.02.2022 (8 Weeks)
3	First Mid Term Examinations	14.02.2022	19.02.2022 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	26.02.2022	
5	2 nd Spell of Instructions	21.02.2022	23.04.2022 (9 Weeks)
6	Second Mid Term Examinations	25.04.2022	30.04.2022 (1 Week)
7	Preparation Holidays and Practical Examinations	02.05.2022	07.05.2022 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	07.05.2022	
9	End Semester Examinations	09.05.2022	21.05.2022 (2 Weeks)

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	23.05.2022	
2	1 st Spell of Instructions	23.05.2022	16.07.2022 (8 Weeks)
3	First Mid Term Examinations	18.07.2022	23.07.2022 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	30.07.2022	
5	2 nd Spell of Instructions	26.07.2022	17.09.2022 (8 Weeks)
6	Second Mid Term Examinations	19.09.2022	24.09.2022 (1 Week)
7	Preparation Holidays and Practical Examinations	26.09.2022	01.10.2022 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	01.10.2022	
9	End Semester Examinations	03.10.2022	18.10.2022 (2 Weeks)


06/12/21
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ACADEMIC CALENDAR 2021-22

B. TECH./B.PHARM. II YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Dussehra Recess	11.10.2021	16.10.2021 (1 Week)
2	Commencement of I Semester classwork	18.10.2021	
3	1 st Spell of Instructions	18.10.2021	11.12.2021 (8 Weeks)
4	First Mid Term Examinations	13.12.2021	18.12.2021 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	24.12.2021	
6	2 nd Spell of Instructions	20.12.2021	12.02.2022 (8 Weeks)
7	Second Mid Term Examinations	14.02.2022	19.02.2022 (1 Week)
8	Preparation Holidays and Practical Examinations	21.02.2022	26.02.2022 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	26.02.2022	
10	End Semester Examinations	28.02.2022	12.03.2022 (2 Weeks)

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	14.03.2022	
2	1 st Spell of Instructions (including Summer Vacation)	14.03.2022	28.05.2022 (11 Weeks)
3	Summer Vacation	09.05.2022	21.05.2022 (2 Weeks)
4	First Mid Term Examinations	30.05.2022	04.06.2022 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	11.06.2022	
6	2 nd Spell of Instructions	06.06.2022	30.07.2022 (8 Weeks)
7	Second Mid Term Examinations	01.08.2022	06.08.2022 (1 Week)
8	Preparation Holidays and Practical Examinations	09.08.2022	16.08.2022 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	16.08.2022	
10	End Semester Examinations	17.08.2022	30.08.2022 (2 Weeks)

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Academic Calendar 2021-22

B. TECH./B.PHARM. III & IV YEARS I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	06.09.2021	
2	1 st Spell of Instructions (including Dussehra Recess)	06.09.2021	06.11.2021 (9 Weeks)
3	Dussehra Recess	11.10.2021	16.10.2021 (1 Week)
4	First Mid Term Examinations	08.11.2021	13.11.2021 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	20.11.2021	
6	2 nd Spell of Instructions	15.11.2021	08.01.2022 (8 Weeks)
7	Second Mid Term Examinations	10.01.2022	18.01.2022 (1 Week)
8	Preparation Holidays and Practical Examinations	19.01.2022	25.01.2022 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	25.01.2022	
10	End Semester Examinations	27.01.2022	09.02.2022

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	10.02.2022	
2	1 st Spell of Instructions	10.02.2022	06.04.2022 (8 Weeks)
3	First Mid Term Examinations	07.04.2022	13.04.2022 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	20.04.2022	
5	2 nd Spell of Instructions (including Summer Vacation)	16.04.2022	24.06.2022 (10 Weeks)
6	Summer Vacation	09.05.2022	21.05.2022 (2 Weeks)
7	Second Mid Term Examinations	25.06.2022	01.07.2022 (1 Week)
8	Preparation Holidays and Practical Examinations	02.07.2022	09.07.2022 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	09.07.2022	
10	End Semester Examinations	11.07.2022	23.07.2022 (2 Weeks)

REGISTRAR

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2021-22

PHARM. D (REGULAR) AND PHARM.D (PB) I YEAR

Pharm. D (Regular) and Pharm.D (PB) I Year

S. No	Description	Duration	
		From	To
1	Commencement of classwork	09.12.2021	
2	1 st Spell of Instructions (including Supplementary Examinations)	09.12.2021	09.03.2022 (13 Weeks)
3	Supplementary Examinations	03.01.2022	08.01.2022 (1 Week)
4	First Mid Term Examinations	10.03.2022	16.03.2022 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	23.03.2022	
6	2 nd Spell of Instructions	17.03.2022	08.06.2022 (12 Weeks)
7	Second Mid Term Examinations	09.06.2022	15.06.2022 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	22.06.2022	
9	3 rd Spell of Instructions	16.06.2022	07.09.2022 (12 Weeks)
10	Third Mid Term Examinations	08.09.2022	14.09.2022 (1 Week)
11	Preparation Holidays and Practical Examinations	15.09.2022	28.09.2022 (2 Weeks)
12	Submission of Third Mid Term Exam Marks to the University on or before	22.09.2022	
13	End / Supplementary Examinations	29.09.2022	14.10.2022 (2 Weeks)

REGISTRAR

06/12/21

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ACADEMIC CALENDAR 2021-22

PHARM. D (REGULAR) AND PHARM.D (PB) II YEAR

Pharm. D (Regular) and Pharm.D (PB) II Year

S. No	Description	Duration	
		From	To
1	Dussehra Recess	11.10.2021	16.10.2021 (1 Week)
2	Commencement of classwork	18.10.2021	
3	1 st Spell of Instructions (including Supplementary Examinations)	18.10.2021	15.01.2022 (13 Weeks)
4	Supplementary Examinations	22.11.2021	27.11.2021 (1 Week)
5	First Mid Term Examinations	17.01.2022	22.01.2022 (1 Week)
6	Submission of First Mid Term Exam Marks to the University on or before	29.01.2022	
7	2 nd Spell of Instructions	24.01.2022	16.04.2022 (12 Weeks)
8	Second Mid Term Examinations	18.04.2022	23.04.2022 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	30.04.2022	
10	3 rd Spell of Instructions (including summer vacation)	26.04.2022	23.07.2022 (13 Weeks)
11	Summer vacation	13.06.2022	25.06.2022 (2 Weeks)
12	Third Mid Term Examinations	25.07.2022	30.07.2022 (1 Week)
13	Preparation Holidays and Practical Examinations	01.08.2022	13.08.2022 (2 Weeks)
14	Submission of Third Mid Term Exam Marks to the University on or before	06.08.2022	
15	End / Supplementary Examinations	16.08.2022	30.08.2022 (2 Weeks)

REGISTRAR
06/11/2021

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Pharm. D (Regular) III, IV, V, VI Years and Pharm.D (PB) III Year

Pharm. D (Regular) III, IV, V Years

S. No	Description	Duration	
		From	To
1	Commencement of classwork		09.08.2021
2	1 st Spell of Instructions (including Dussehra Recess)	09.08.2021	06.11.2021 (12 Weeks)
3	Dussehra Recess	11.10.2021	16.10.2021
4	First Mid Term Examinations	08.11.2021	13.11.2021 (1 Week)
5	2 nd Spell of Instructions	15.11.2021	12.02.2022 (13 Weeks)
6	Submission of First Mid Term Exam Marks to the University on or before		20.11.2021
7	Supplementary Examinations	22.11.2021	27.11.2021
8	Second Mid Term Examinations	14.02.2022	19.02.2022 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		26.02.2022
10	3 rd Spell of Instructions	21.02.2022	07.05.2022 (11 Weeks)
11	Third Mid Term Examinations	09.05.2022	14.05.2022 (1 Week)
12	Preparation Holidays and Practical Examinations	16.05.2022	28.05.2022 (2 Weeks)
13	Submission of Third Mid Term Exam Marks to the University on or before		21.05.2022
14	End / Supplementary Examinations	30.05.2022	11.06.2022 (2 Weeks)
15	Summer vacation	13.06.2022	18.06.2022 (1 Week)

Pharm. D (Regular) VI Year and Pharm.D (PB) III Year

S. No	Description	Duration	
		From	To
1	Commencement of internship in General ward	09.08.2021	05.02.2022 (6 Months)
2	Report submission of internship in General ward		07.02.2022
3	Commencement of internship in Specialty ward-1	08.02.2022	07.04.2022 (2 Months)
4	Report submission of internship in Specialty ward-1		09.04.2022
5	Commencement of internship in Specialty ward-2	11.04.2022	10.06.2022 (2 Months)
6	Report submission of internship in Specialty ward-2		11.06.2022
7	Commencement of internship in Specialty ward-3	13.06.2022	12.08.2022 (2 Months)
8	Report submission of internship in Specialty ward-3		13.08.2022
9	Final viva of internship		17.08.2022


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ACADEMIC CALENDAR 2021-22

M.Tech./ M.Pharm. I YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	15.11.2021	
2	1 st Spell of Instructions	15.11.2021	08.01.2022 (8 Weeks)
3	First Mid Term Examinations	10.01.2022	18.01.2022 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	25.01.2022	
5	2 nd Spell of Instructions	19.01.2022	15.03.2022 (8 Weeks)
6	Second Mid Term Examinations	16.03.2022	22.03.2022 (1 Week)
7	Preparation Holidays and Practical Examinations	23.03.2022	29.03.2022 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	29.03.2022	
9	End Semester Examinations	30.03.2022	16.04.2022 (2 Weeks)

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	18.04.2022	
2	1 st Spell of Instructions (including Summer Vacation)	18.04.2022	25.06.2022 (10 Weeks)
3	Summer Vacation	09.05.2022	21.05.2022 (2 Weeks)
4	First Mid Term Examinations	27.06.2022	02.07.2022 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	09.07.2022	
6	2 nd Spell of Instructions	04.07.2022	27.08.2022 (8 Weeks)
7	Second Mid Term Examinations	29.08.2022	03.09.2022 (1 Week)
8	Preparation Holidays and Practical Examinations	05.09.2022	10.09.2022 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	10.09.2022	
10	End Semester Examinations	12.09.2022	24.09.2022 (2 Weeks)


12/11/21
REGISTRAR

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R.R. Dist - 501 510, Telangana.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2021-22

M.Tech./ M.Pharm. II YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	09.11.2021	
2	1 st Spell of Instructions	09.11.2021	31.12.2021 (8 Weeks)
3	Preparation of Project Work Proposals	09.11.2021	04.12.2021 (4 Weeks)
4	Project Work Review-I: (Project approval / commencement)	06.12.2021	11.12.2021
5	Last date for submission of list of approved PRC-I students from the College to the University Examination branch.	14.12.2021	
6	First Mid Term Examinations	03.01.2022	08.01.2022 (1 Week)
7	Submission of First Mid Term Exam Marks to the University on or before	19.01.2022	
8	2 nd Spell of Instructions	10.01.2022	05.03.2022 (8 Weeks)
9	Second Mid Term Examinations	07.03.2022	12.03.2022 (1 Week)
10	Preparation Holidays and Practical Examinations	14.03.2022	19.03.2022 (1 Week)
11	Submission of Second Mid Term Exam Marks to the University on or before	19.03.2022	
12	End Semester Examinations	21.03.2022	01.04.2022 (2 Weeks)

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester (Project Work Continuation) (13.12.2021 to 04.04.2022 – 16 weeks)	04.04.2022	
2	Project Work Review -II (Phase-I)	04.04.2022	09.04.2022 (1 Week)
3	** Project Work Review -II (Phase-II)	26.04.2022	28.04.2022 (3 days)
4	Last date for submission of PRC-II marks	02.05.2022	
5	Project Work Review -III (Phase-I) (11.04.2022 to 03.09.2022 – 21 Weeks)	05.09.2022	10.09.2022
6	Last date for submission of Project Work Review-III (Phase-I) Marks	17.09.2022	
7	* Date of eligibility of thesis submission	17.09.2022	
8	Submission of Thesis and Project Viva –Voce Examination (PRC-III Phase-I)	---	
9	** Project Work Review – III (Phase –II) (12.09.2022 to 10.12.2022 – 13 Weeks)	12.12.2022	14.12.2022 (3 days)
10	Last date for submission of Project Work Review –III (Phase-II) Marks	15.12.2022	
11	Submission of Thesis and Project Viva –Voce Examination (Phase-II) follows	---	

* After completion of 40 weeks from the date of approval of project work proposal and subject to approval of Project Work Review-III.

** Phase-II will be conducted only for unsuccessful students in Phase –I

Note:1 The unsuccessful students in Project Work Review-II (Phase-II) shall appear for Project Work Review-II at the time of Project Work Review-III. These students shall reappear for Project Work Review-III in the next academic year at the time of Project Work Review -I only after completion of Project Work Review -II, and then Project Work Review -III follows.

2 The Project Viva-Voce External examination Marks must be submitted on the day of examination to the University.

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Hyderabad
Regd. No. 501/510, Tatanagar
6/11/22
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Mangalpally (V), Ibrahimpatnam (M), R.N. Dist. 501 514

Main Answer Book

MID Exam No.: 2nd

Date: 16/2/22

Branch: B-Pharmacy

Year: 1st year

Signature of Investigator with Date

Roll No: 20111P0007

Subject: Pharmaceutical Engineering

No. of Additional: 01

3A) Plate and Frame Filter Press

Principle :- This Plate and frame filter Press is a mechanism of the Surface filtration in which the Plate and frame help the Slurry to filtration and ~~to~~ from the Outlet.

Construction :- The filter Press is made up of 2 two apparatus i) Plate and ii) frame.

* The frame are arranged in the order Sequence with Plate.

* The Slurry Enter from the frame and the Product discharge is collected by the Plate in down words.

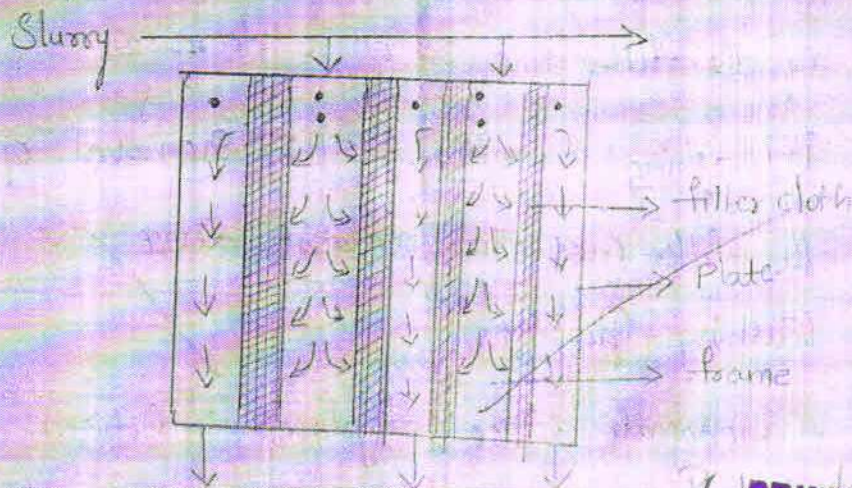


Plate and frame filter press

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* The Plate has Very grooved depression in which the filter cloth is Placed for filtration.

* The Sequence of the Plate and frame filter Press is 1:2:1:2:1.

Working :- The Slurry material are Passed from the inlet i.e from the frame and the frame Sends to the filter cloth for the filtration Process. It Contains two Operation.

i) Filtration Operation :- The Slurry Enter from the frame and the filtration occurs due to filter cloth and Send to the Plate and Plate will Collect the Product at bottom.

The filter cake are formed during the filtration Process. These filter cake are occur at the middle of the cloth hence the Residence Of the filter cake is decreases.

ii) Washing Operation :- The Removal of cake from the filter cake the moderate device are used for washing Purpose.

A moderate device is placed in between the Plate and filter medium for Washing the cakes which are Placed at middle.

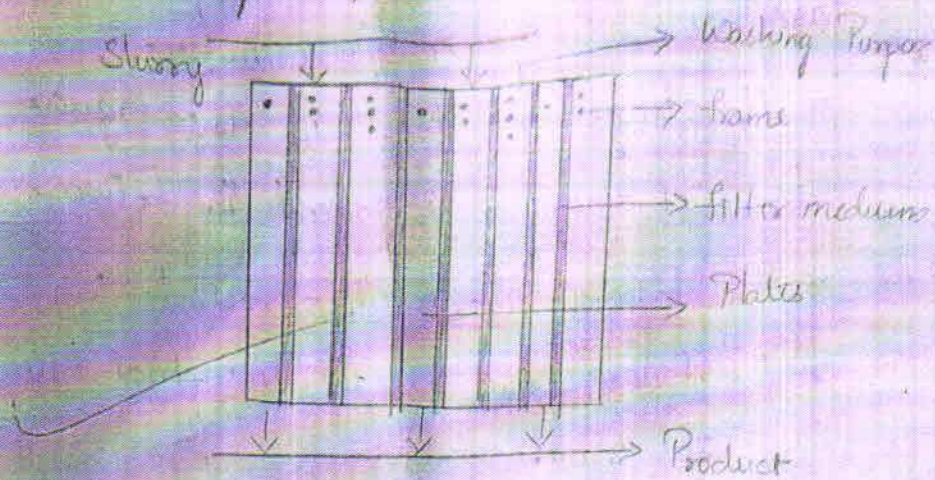
Uses:- Heating/Cooling cakes are used for the drying the filter medium after washing.

Advantages

* The washing operating tech are done in the

Sequence of 1:2:3:1:2:3

* In which the three isolated structures are meant for the washing purpose.



Advantages:-

* The Varieties of material can be filtered in this process

* Washing technique maintain the face from filter cakes

Disadvantages:-

* The Equipment are Very Costly

* It has more time Consuming. technique

1A) Tray Dryer: The tray dryer are used for the removing of moisture from the solid slurry material through heat transferring.

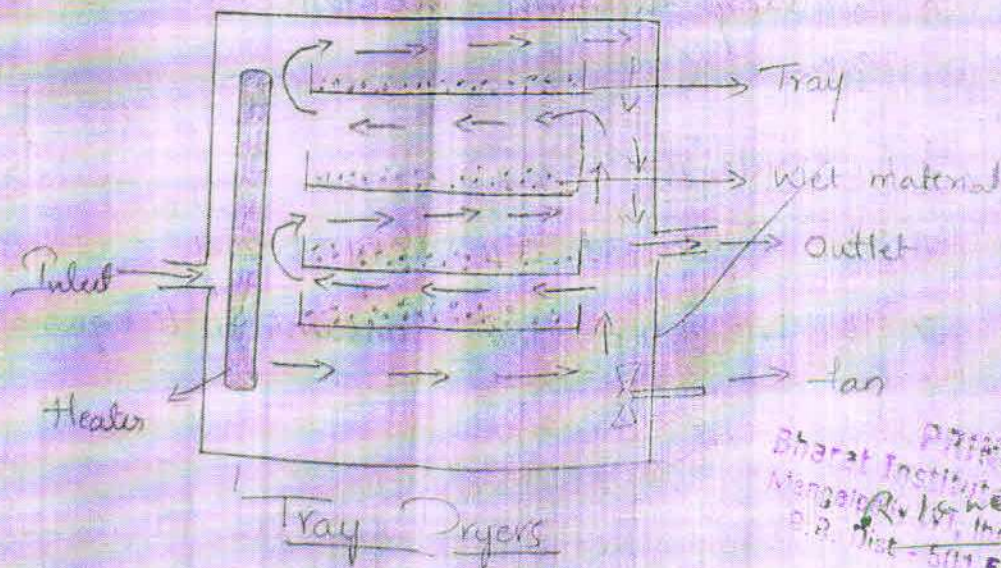
Construction: The tray dryer are used for the removing the moisture contents from the solid liquid wet material.

* It contain a Rectangular Square Structure which are at 1.5 to 2.4 Square meter.

* The trays are placed in the Square in which the wet material is placed in between them.

* In laboratory the trays are having 3 to 4 trays in the Square but in the industrial Purpose we use 20 trays.

* We use heater for the produce hotness for the air and fan is place at the bottom of the outlet form transform of heat to all the trays.



* Working :- The fresh air enters from the inlet and passes from the heater and through the fan the air passes through all the trays.

This hot air helps in absorption of moisture from the wet material. The product gets dry as the hot air passes through the tray and the powder dry form of product is obtained.

* Uses :- Slurry materials, sticky material, granules, mass, Paste can be dried by this process of tray dryer.

* Advantages :- The Tray filter are less in cost.
* It can be clean and maintains very well.
* It can convert the liquid form to solid form.

* Disadvantage :-

* It consumes more labour worker.

* It is a very slow process hence time consumed is very more.

Date: 15-2-2022
Multiple Choice Questions

BHARAT INSTITUTE OF TECHNOLOGY
B Pharm II Year 2nd Mid Exam
Subject: Pharmaceutical Engineering
HTK: No. 2201180002

Time: 020 00 min
10+0.5=5M

1. HEPA filter pore size in microns
A) 0.4 B) 0.3 C) 0.5 D) 0.6 (B)
2. Drum Dryer length
A) 2-4m B) 1-4m C) 1.1m D) 3-5m (A)
3. Distillation is a process involved
A) Pressure & Force B) viscosity & vapour pressure
C) vaporization & condensation D) all of them (A)
4. Extremely heat sensitive materials are used following Dryer
A) Drum Dryer B) Tray Dryer C) Fluidized bed dryer D) Freeze Dryer (B)
5. Use of addition of Porcelain pieces before Distillation is
A) Good vapour forms B) avoids bumping C) less temperature needed D) None (C)
6. In Flash Distillation entire liquid mixture is
A) suddenly vaporizes B) melts C) suddenly crystal forms D) all of them (C)
7. water boils __ temperature in vacuum Distillation
A) 50° B) 40° C) 30° D) 20° (B)
8. Fresh water from Sea-water the following method is used
A) compression Distillation B) Fractional distillation C) Steam Distillation D) None (C)
9. which metal makes the steel corrosive resistant
A) chromium & nickel B) Titanium & selenium
C) Radium & niobium D) Radium & selenium (A)
10. Air tight sealed containers are used for the following
A) capsules B) Tablets C) liquid preparations D) All of them (C)

Fill in the blanks

1. HEPA Stands for High Efficiency Particulate Air Filter
2. Water boils 40°C temperature in vacuum Dryer
3. In Fluidized bed dryer "Fluidized" means Vapour is again liquid form
4. Evaporation means simply liquid converts to vapour
5. Flash Distillation is also known as Steam distillation
6. 70mmHg is equal to 10 kPa
7. With Molecular distillation steroids can be obtained 30 to 70 temperature.
8. Acetone-water separation can be done by fractional Distillation.
9. Adiabatic Process means transfer of heat from one form to other form
10. Transfer of heat from one atom to another in direct contact with each other is called adiabatic process.

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Mangalpally (VI), Warangal (TQ), Dist. R.R. Dist. 501 510

Main Answer Book

20/5/22

Roll No. 191171002
Date 18/02/2022
Month March
Year IV year
Signature of the student with Date
Subject Clinical toxicology
No. of Questions 04

Clinical Manifestations of Radiation?

Radiation can affect human body by

direct exposure or indirect exposure.

→ It mainly affects on DNA, RNA and protein binding but
majorly affect cell proliferation (indirect exposure).

Radiation on skin causes blisters, allergies, penetration of beta
depends on how much radiation is affected on the body.

GI-tract :- Death of mucosal cells in gastro-intestinal

tract

Respiratory system :- Minor affect causes breathing disorders

which leads to asthma.

- Pulmonary dysfunction

- Hepatic system :- Due to radiation exposure, necrosis of liver

→ Chromosomal injury of direct exposure

- Central nervous system :- leads to seizure, hallucination, coma

→ Circulatory system :- causes Angioma (irregular heart beat)

Cardiac arrest, Atrial fibrillation

Death is followed by the myotic dysfunction, renal dysfunction,
respiratory arrest.

Management of Radiation :-

- Prophylactic drugs for radiation : Amifostine, Adamastinediol are effective for radiation exposure.
- People who have history of radio contrast, oedema should be treated with corticosteroids.
- ⇒ Radiation can be a major problem if it is untreated. Decontamination clothes should be removed and fresh dry clothes should be given.
- ⇒ If any wound is present on skin it should be cleanse with saline.
- ⇒ Patient should be monitored for at least 6 hours to find any symptoms. If patient is asymptomatic, he should be send to full body examination.
- ⇒ If patient is undergoing respiratory distress, artificial ventilation should be given.
- ⇒ In case of myocardial infarction, should be treated with Potassium and magnesium.
- ⇒ If Atrial fibrillation, corticosteroids and atheronase is contraindicated and Adrenaline, B-blockers should be given.
- ⇒ Antibiotics are necessary in case of patient suffers with Infection.

6. Clinical symptoms of acute poisoning with petroleum products:-

Pulmonary system:- Any exposure of petroleum products leads to asthma, bronchitis or pneumonia.

GI tract:- Nausea, vomiting, diarrhoea are the common symptoms of patients who are affected by petroleum products.

CNS:- Hallucination, dizziness, vertigo (uncanny).

Skin:- Severe skin irritation.

CVS:- Cardiac myopathy.

Management of petroleum products:-

Removal of clothes and cleanse with normal saline or with lot of soap.

↓
Patients should kept lying to prevent asphyxia which can cause cardiac suffocation.

↓
Purambates like strong breathing circulation should be checked frequently and advise basic medical protocols.

↓
If patient suffers with respiratory distress, artificial ventilation should be provided.

↓
If patient is asymptomatic, provide oxygen and attend patient's vitals for 6 hours.

5] Clinical symptoms of ethanol poisoning :-

Ethanol is prepared from the ethylene, it is a direct hydrator of ethene.

Ethanol poisoning symptoms are categorised into 3:

1) Acute poisoning

If chronic poisoning

a) Acute poisoning :- In early stage patient experience with slurred speech, ataxia, blurring, drowsiness, depression.

Hypothermia is common, Metabolic acidosis.

Pupils are constricted earlier.

Depression may be possible.

G.I tract : Nausea, vomiting, diarrhoea are the regular episode.

CNS : Intoxication, Seizures, drowsiness, lethargy.

CVDs : Arrhythmia (binge drinking).

b) Chronic poisoning :-

Alcoholism (Guilt on where patient is).

addicted in alcohol, cannot withstand the habit.

Hepatic signs : liver cirrhosis, hepatitis.

CNS : Tremor, heart beat, myoclonic, tremor.

Respiratory system : severe asthma, bronchitis.

Can't stay alone if condition is severe.

Psychomotor activity.

Management of Acute poisoning:-

- Initially follow primary parameter
- Decontamination of clothes should be removed and patient should be taken to airway condition
- Gastric lavage is not possible
- Stomach wash
- Administration of thiamine [3mg/IV] - because vitamin suppress
- Administration of glucose : IV route to maintain glucose level in the body adults - 25mg/kg/IV
Infants - 0.25mg/kg/IV
- Different ^{drug} should be tried like saline, naloxone etc but flumegyl is being effective in many cases [3mg/IV].
- Hemodialysis is effective but only in severe condition

Management of chronic poisoning:-

- Carbamazepine is effective in chronic ethanol poisoning
- Different drugs like dichloromethylene are used, but clonidine and 1-hydroxybutyric acid found to be really effective
- also added in therapy
- Thiopentone - benzodiazepine antagonist is used in the case of seizures hallucination
- delirium is administered as alternative drug by antipsychotic
- two mg/kg daily dose drug

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Roll No.:

03

Additional Sheet No. 22

Signature of the place with date

→ Aversion therapy: Patients with alcoholic addiction should be treated with aversion therapy.

There are many drugs which are really effective (ex-disulfam) (disulfam therapy).

Patient should be known about disulfam therapy before 12 hours.

Patient should not consume alcohol in between the course of this therapy.

Disulfam - administered 1200mg/kg

Supportive psychotherapy: Patient should be taken care and de-addiction centres will help to withdraw the symptoms and habits for a specific period of time.

A group - A.A. ⇒ Alcoholic Anonymous, separate group for people who are alcoholic addicts.

[P.T.O.]

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8. Management of food poisoning:-

Food poisoning is an illness caused by ingestion of contaminated food.

Causative agents:- Bacteria, Virus.

Treatment:- ORAL REHYDRATION THERAPY (ORT).

Oral rehydration therapy is best supportive therapy.

Dose - 100 ml/kg for adults.

50 ml/kg → adults.

[Maintenance therapy will be followed by the patient condition if the levels in the body are not accurate, again rehydration therapy is continued.]

Maintenance therapy → 10 ml/kg - constipation [ORT]

50 ml/kg - watery stool

and 1 l/kg - vomiting

But, ORT is not useful in hypotensive, unconscious, depression and other symptoms.

Antibiotics, Antisecretory agents are useful.

For more cases:-

Antibiotics are given for specific pathogens.

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Roll No. _____

Page _____

Additional Sheet No. _____

Signature of Investigator with date

→ Administer IV fluids

→ If Abx - Allantation occurs, should be treated with penicillins and Lidocaine

→ IT MT → Potassium and magnesium levels are monitored

→ Electrolyte replacement should be done

→ Prophylactic Antibiotics are given in case of Pneumonia

Clinical symptoms of Encephalopathy :-

- Initially patient experience depression, drowsiness
- CNS effects : Hallucination, seizures
- Encephalopathy gradually develop depression
- Hypothermia, tachycardia
- Cardiac myopathy (CNS)
- CMT - Polyneuropathy
- Patient experience nausea, vomiting and diarrhoea

Management of Encephalopathy :-

- Check serum electrolytes, blood levels

Other Therapies Creatinine levels is understood the patient

conditions and his vital

→ Gastric lavage is possible and effective to eliminate bacteria

from the body

→ always check platelet level, its important for patient of

therapy

- Haemoperfusion with charcoal is best therapy for the management of barbiturates
- Alkaline diuresis is done if patient condition is severe and mostly contraindicated
- Administration of IPZ is contraindicated, cause seizures
- maintain electrolytes level in the body

F] Signs and symptoms of NEADs:

Metabolic effects :- lethargy, ataxia, renal failure, hypotension, headache

CNS :- Hallucinations, seizure (mainly metabolic acid)

Cvs :- Arrhythmia, cardiac arrest

GI tract :- Nausea, vomiting, constipation.

Hepatic system :- Altered

General effects :- weight loss, dehydration, Body pains, abdominal pains

There is no medicine for NEAD management but supportive care is given to reduce symptoms and progress of disease

Management of Nausea:

• Intravenous fluid administration is done

for dehydration and people who are not supportive for oral rehydration.

• Avoid of any Intravenous depletion to reduce or prevent the condition of renal failure.

• There is no specific antidote for Nausea management and supportive care is given.

• To reduce gastric irritation, proton pump inhibitors are given.

• Metformin acid (NSAID) cause severe seizure, for this glucose administration followed for a specific period of time and benzodiazepine.

• Drugs are given.

• These drugs have short life time, so the symptoms are reversible and relieved.

⇒ It is not serious condition, always maintains electrolytes levels.

• The body and reduce the symptoms.

⇒ Oral rehydration therapy is given for people who are conscious and willing to the therapy.

• Rehydration is the major advice and non pharmacological therapy includes ORS, IV, water, avoid smoking and alcohol consumption.

alcohol consumption

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Roll No. _____

Additional No. _____

Signature of Teacher with date

For a different pathogen, different treatment or management

is required

Excellus cereus

• Placitain oral rehydration therapy for electrolyte

imbalance

• IV fluids are administered in case of 1st and 2nd degree

• Antihemetics - For symptoms of nausea and vomiting

• Antihistamines - Cephalexin, Ceftriaxone, Cephazolin

Amoxicillin are used

Staphylococcus aureus

• Administer IV fluids

• Staphylococcus aureus can cause bronchitis, so antispasmodic

agents are used here

• General antibiotics like Cephalexin, Ceftriaxone, Amoxicillin

are used

Vibrio cholera

• Maintain electrolytes

• Oral rehydration and antibiotics are primary choice of

Antibiotics

• Antispasmodic agents, antibiotics are administered

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Main Answer Book

MOD 1 and No. 1

Date: 18/2/2022

Name: Phaniyasa Prathap

Year: B.Pharm 1st Year

Roll No: 211151803

Subject: Advanced Pharmacology

Page: 6

1A) Breeding Techniques of Laboratory Animals

There are three types of Breeding Technology

They are:

1) Hand Mating

2) Pair Mating

3) Harmon Mating

1) Hand Mating:-

In this the male and female are brought together for a brief period and then separated once the mating is over.

eg: Rabbits and Hamsters

2) Pair Mating:-

In this method male and female are mated together rest of their breeding life.

* In this method in case of mice one male mated with one female and kept together for the rest of their breeding life.

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2) Distribution

3) Metabolism: ~~metabolism~~

- * Assessment of metabolite stability
- * Metabolite characterization

4) Excretion Strategies

- * In vivo excretion studies are not usually performed in lead optimisation
- * In vitro models to investigate renal excretion are very limited. The primary in vitro renal excretion model is the isolated perfused rat kidney.

5) In vitro ADME strategies

- * Availability of massive ADME data in the literature and within the pharmaceutical company database has led to the initiation of dedramming efforts in order to understand the SAR for ADME properties.

3.4) Blind screening

- * only for the series of new chemical entities with no prior pharmacological history.
- * New chemical entity or isolated natural.

Stages in Drug discovery:-

Drug discovery



Formulation



preclinical studies



clinical trials

* Any drug development process must go through several stages in order to produce a product that is safe, effective and has passed all regulatory requirements

Strategies:-

- 1) Absorption strategies
- 2) Distribution strategies
- 3) Metabolism strategies
- 4) Excretion strategies
- 5) Insulin ADME strategies

1) Absorption strategies:-

- * Animal studies (rod) - very low throughput
- * In vitro intestinal models - very low throughput
- * Intestinal epithelial barrier models

- * In the case of rats, pregnant females should be isolated prior to delivery.
- Ex: Rats and Mice

3) Harmon mating -

- * In this method male and females are reared together, but separated prior to parturition.
- * In this method four females are regularly mated with one male.
- * The female is separated soon after the pregnancy is established and replaced by fresh female.

Ex: Guinea pig

4) Drug Discovery -

The process of drug discovery involves the identification of lead and its target, synthesis, characterization, screening and assay for the therapeutic efficacy of lead. Once a compound has shown its value in these tests, it will begin the process of drug development prior to "clinical trials".

- * The average time required to bring a drug into the market ranges from 12-15 years.

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Roll No.: 2117151533

Additional Sheet No.: 01

Signature of the student with date

provides a road towards field & industry & it they exists

- c. To demonstrate whether new group of substances is worthy for further attention
- d. point out the most potent chemical with interesting pharmacological activity
- e. Required planning and skilled execution of test
- f. Toxicological pathway is essential for every library of compounds

II

(A) CPSEAR

The committee for the purpose of control and supervision of experiments on Animals

x It is a statutory committee of Department of Animal Husbandry and Dairying constituted under the prevention of cruelty to animals Act 1960.

B.PHARM- PROJECT TITLE LIST '2022:

Project - 2021-22

BATCH.NO	Roll Number	Guide Name	Project Title
1.	18171R0049	Dr. Namratha S.	Analytical Method Development and Validation of Moxifloxacin Hydrochloride by using RP-HPLC Method
	18171R0050		
	18171R0051		
	18171R0052		
	18171R0053		
2.	18171R0044	Mrs. Kabita Banik	Formulation and Evaluation of Isoniazid Microbeads
	18171R0045		
	18171R0046		
	18171R0047		
3.	18171R0048	Mrs. Jyoti Sahu	Evaluation of Phytochemical Constituents of Palm Wine and Review of its therapeutic benefits
	18171R0054		
	18171R0055		
	18171R0056		
4.	18171R0057	Mrs. Amtul Fatima	Formulation and Evaluation of the Microsponges loaded with Combination of two Antifungal agents for Transdermal Drug Delivery.
	18171R0054		
	18171R0055		
	18171R0056		
5.	18171R0057	Mrs. Rechal Nivedita	Development of HPLC Methods for Betablockers
	17171R0060		
	18171R0001		
	18171R0002		
6.	18171R0003	Dr. J Bhaskar	Formulation and Evaluation of Albendazole Fast Dissolving Tablets.
	18171R0004		
	18171R0038		
	18171R0040		
7.	18171R0041	Dr. Kalyani	Study of Various Phytochemicals Derived from Aegle Marmelos Using Qualitative Estimation and Insilico Parameters.
	18171R0042		
	18171R0043		
	18171R0005		
8.	18171R0006	Dr. Nahid	Over the Counter Sale of Dispensing Antibiotics in Community Pharmacy
	18171R0007		
	18171R0008		
	18171R0009		
	18171R0010		
	18171R0011		
	18171R0012		

9.	18171R0013	Ms. Pushpa Twila	Formulation and Evaluation of Polyherbal Handwash with Potential Antibacterial Activity
	18171R0014		
	18171R0026		
	18171R0029		
	18171R0030		
10.	18171R0031	Mrs. Harita	Exploration of Potential Antitumorlithatic Activity of Marine Product Chlorella
	18171R0032		
	18171R0069		
	18171R0070		
	18171R0071		
11.	18171R0072	Dr. Srikanth	Biological Evaluation of Essential Natural Oils as Potential Antibacterial Agents
	16171R0067		
	16171R0068		
	17171R0005		
	17171R0029		
12.	17171R0058	Mrs. Azka Fatima	Development and Validation of RP-HPLC Method for the Estimation of lloperidone in Bulk and Tablet Dosage Form
	18171R0015		
	18171R0016		
	18171R0017		
	18171R0018		
13.	18171R0019	Mrs. Azka Fatima	Analytical Method Development and Validation for the Determination of Anastrozole in Pharmaceutical Dosage Form by RP-HPLC.
	18171R0073		
	18171R0074		
	18171R0078		
	18171R0033		
14.	18171R0033	Dr. Sibnath Kamila	Formulation And Evaluation of Herbal Gel having Analgesic Action.
	18171R0034		
	18171R0035		
	18171R0036		
	18171R0037		
15.	18171R0020	Dr. Mutahar	Studies on Formulation and Characterization of Acyclovir Sustained Release Matrix Tablets by Using Natural Polymers.
	18171R0021		
	18171R0023		
	18171R0024		
	18171R0025		
16.	18171R0058	Dr. Mutahar	Formulation And Invitro Evaluation Of Nicotinic Acid.
	18171R0059		
	18171R0060		
	18171R0061		
	18171R0061		

PRINCIPAL
 Bharat Institute of Technology
 Mangalpally (R), Ibrahimpatnam (M),
 R.R. Dist - 501 510, Telangana.

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Roll Number	Guide Name	Project Title
18171R0049	Dr. Namratha S.	Analytical Method Development and Validation of Moxifloxacin Hydrochloride by using RP-HPLC Method
18171R0050	Dr. Namratha S.	Do
18171R0051	Dr. Namratha S.	Do
18171R0052	Dr. Namratha S.	Do
18171R0053	Dr. Namratha S.	Do

Roll Number	Guide Name	Project Title
18171R0044	Mrs. Kabita Banik	Formulation and Evaluation of Isoniazid Microbeads
18171R0045	Mrs. Kabita Banik	Do
18171R0046	Mrs. Kabita Banik	Do
18171R0047	Mrs. Kabita Banik	Do
18171R0048	Mrs. Kabita Banik	Do

Roll Number	Guide Name	Project Title
18171R0054	Mrs. Jyoti Sahu	Evaluation of Phytochemical Constituents of Palm Wine and Review of its therapeutic benefits
18171R0055	Mrs. Jyoti Sahu	Do
18171R0056	Mrs. Jyoti Sahu	Do
18171R0057	Mrs. Jyoti Sahu	Do

Roll Number	Guide Name	Project Title
18171R0054	Mrs. Amtul Fatima	Formulation and Evaluation of the Microsponges loaded with Combination of two Antifungal agents for Transdermal Drug Delivery.
18171R0055	Mrs. Amtul Fatima	Do
18171R0056	Mrs. Amtul Fatima	Do
18171R0057	Mrs. Amtul Fatima	Do

Roll Number	Guide Name	Project Title
17171R0060	Mrs. Rechal Nivedita	Development of HPLC Methods for Betablockers
18171R0001	Mrs. Rechal Nivedita	Do
18171R0002	Mrs. Rechal Nivedita	Do
18171R0003	Mrs. Rechal Nivedita	Do

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 R.R. Dist - 501 510, Telangana.

18171R0004	Mrs. Rechal Nivedita	Do
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Roll Number	Guide Name	Project Title
18171R0038	Dr. J Bhaskar	Formulation and Evaluation of Albandazole Fast Dissolving Tablets.
18171R0040	Dr. J Bhaskar	Do
18171R0041	Dr. J Bhaskar	Do
18171R0042	Dr. J Bhaskar	Do
18171R0043	Dr. J Bhaskar	Do

Roll Number	Guide Name	Project Title
18171R0005	Dr. Kalyani	Study of Various Phytochemicals Derived from Aegle Marmelos Using Qualitative Estimation and Insilico Parameters.
18171R0006	Dr. Kalyani	Do
18171R0007	Dr. Kalyani	Do
18171R0008	Dr. Kalyani	Do
18171R0009	Dr. Kalyani	Do

Roll Number	Guide Name	Project Title
18171R0010	Dr. Nahid	Over the Counter Sale of Dispensing Antibiotics in Community Pharmacy
18171R0011	Dr. Nahid	Do
18171R0012	Dr. Nahid	Do
18171R0013	Dr. Nahid	Do
18171R0014	Dr. Nahid	Do

Roll Number	Guide Name	Project Title
18171R0026	Ms. Pushpa Twila	Formulation and Evaluation of Polyherbal Handwash with Potential Antibacterial Activity
18171R0029	Ms. Pushpa Twila	Do
18171R0030	Ms. Pushpa Twila	Do
18171R0031	Ms. Pushpa Twila	Do
18171R0032	Ms. Pushpa Twila	Do

Roll Number	Guide Name	Project Title
18171R0069	Mrs. Harita	Exploration of Potential Antiurolithiatic Activity of Marine Product Chlorella
18171R0070	Mrs. Harita	Do
18171R0071	Mrs. Harita	Do
18171R0072	Mrs. Harita	Do

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R.R. Dist - 501 510, Telangana.

Roll Number	Guide Name	Project Title
16171R0067	Dr. Srikanth	Biological Evaluation of Essential Natural Oils as Potential Antibacterial Agents
16171R0068	Dr. Srikanth	Do
17171R0005	Dr. Srikanth	Do
17171R0029	Dr. Srikanth	Do
17171R0058	Dr. Srikanth	Do

Roll Number	Guide Name	Project Title
18171R0015	Mrs. Azka Fatima	Development and Validation of RP-HPLC Method for the Estimation of Iloperidone in Bulk and Tablet Dosage Form
18171R0016	Mrs. Azka Fatima	Do
18171R0017	Mrs. Azka Fatima	Do
18171R0018	Mrs. Azka Fatima	Do
18171R0019	Mrs. Azka Fatima	Do

Roll Number	Guide Name	Project Title
18171R0073	Mrs. Azka Fatima	Analytical Method Development and Validation for the Determination of Anastrozole in Pharmaceutical Dosage Form by RP-HPLC.
18171R0074	Mrs. Azka Fatima	Do
18171R0078	Mrs. Azka Fatima	Do

Roll Number	Guide Name	Project Title
18171R0033	Dr. Sibnath Kamila	Formulation And Evaluation of Herbal Gel having Analgesic Action.
18171R0034	Dr. Sibnath Kamila	Do
18171R0035	Dr. Sibnath Kamila	Do
18171R0036	Dr. Sibnath Kamila	Do
18171R0037	Dr. Sibnath Kamila	Do

Roll Number	Guide Name	Project Title
18171R0020	Dr. Mutahar	Studies on Formulation and Characterization of Acyclovir Sustained Release Matrix Tablets by Using Natural Polymers.
18171R0021	Dr. Mutahar	Do
18171R0023	Dr. Mutahar	Do
18171R0024	Dr. Mutahar	Do
18171R0025	Dr. Mutahar	Do

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Mangalpally (V), Foraminatnam (IV),
R.R. Dist - 504 - 2, Telangana.

Roll Number	Guide Name	Project Title
18171R0058	Dr. Mutahar	Formulation And Invitro Evaluation Of Nicotinic Acid.
18171R0059	Dr. Mutahar	Do
18171R0060	Dr. Mutahar	Do
18171R0061	Dr. Mutahar	Do

Principal
Bharat Institute of Technology
Mongalpet (V), Ibrahimpatnam (M.T.)
P.R. Dist - 501 510, Telangana

R.



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY, HYDERABAD-500 085

PROCEEDINGS OF THE DIRECTOR OF EVALUATION

Procs.No.JNTUH/EB/M.Pharmacy September 2021/VV/2021, Dt:14.9.2021

Sub: JNTUH - Examinaton Branch-Appointment of External Examiner for conduct of Project Viva-Voce -Orders-Issued.

ORDER

The Principal, Bharat Inst. of Technology, has sent the panel of external examiners for conducting project viva-voce examination in respect of M.Pharmacy Course students has requested the university to issue necessary orders appointing the external examiners. The following is the list of examiners appointed to conduct Project Viva-Voce Examination.

Name Of The Course & Panel Id	Hall Ticket No's	External Examiner Appointed
M.Pharmacy(01) Panel_Id : 17_S_4_122	19171S0104 19171S0105 19171S0101 19171S0102	Dr.Mehroon Farheen Professor, HOD, Shadans Womens college of Pharmacy mehnoorfharheen21@gmail.com 8121206032
M.Pharmacy(03) Panel_Id : 17_S_2_122	19171S0301 <i>dilippharma073@gmail.com</i>	Dr. Dilip Kumar Brahma Associate Professor, School of Pharmacy, Guru nanak Institution, Technical Campus. dilippharma073@gmail.com 9553613231
M.Pharmacy(15) Panel_Id : 17_S_1_122	19171S1502	Mr. Choda Pradeep Kumar (PhD) Associate Professor, Teegala Krishna Reddy College of Pharmacy, Medbowli, Hyd pharmacologypradeep@gmail.com 8121952454
M.Pharmacy(15) Panel_Id : 17_S_3_122	19171S1503	Dr.S.A.Sreenivas Principal, Sree Dattha Institute of Pharmacy, Sheriguda, Hyderabad. saiseenu7@gmail.com 9393808082

The Principal is requested to arrange for conduct of viva-voce examination on or before 17/09/2021 in OFFLINE MODE, otherwise they have to resubmit the panel. Upload the project viva-MARKS to the JNTUH portal using URL: <http://registrations1.jntuh.ac.in/pgprojectthesis> and get it approve entered marks by your assigned examiner from their login.

TO
THE PRINCIPAL
Bharat Inst. of Technology

DIRECTOR OF EVALUATION

PRINCIPAL
Bharat Institute of Technology
Mangalagiri (V), Ibrahimpetnam (M),
R.R. Dist - 501 501, Telangana



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD, HYDERABAD-500085

BHARAT INSTITUTE OF TECHNOLOGY(17)

DISSERTATION WORK REVIEW III Internal Marks Award List

R19- II Year M.Pharmacy II Semester

PHARMACOLOGY

DISSERTATION WORK REVIEW III (66107)

Maximum Marks: 100

Date: 2021-08-21 11.02.34

S.No	HTNO	MARKS AWARDED
1	19171S0101	86
2	19171S0102	80
3	19171S0103	86
4	19171S0104	89
5	19171S0105	85

Signature Of Principal with date & Office seal

PRINCIPAL
Bharat Institute of Technology
Mangalpally (V), Ibrahimpatnam (ML),
R.R. Dist - 501 510, Telangana.



BHARAT INSTITUTE OF TECHNOLOGY

(Approved by AICTE & PCI, New Delhi and Affiliated to JNTU, Hyderabad)
Sponsored by : CHINTA REDDY MADHUSUDHAN REDDY EDUCATIONAL SOCIETY
Mangalpally (Village), Ibrahimpatnam (Mandal), Ranga Reddy District - 501 510, Telangana.
Ph : 08414-252265, Fax : 08414-252645, E-mail : hitpharm@yahoo.com

To

01202

Date: 14-11-2022

The Controller of Examination,
JNTUH, Kukatpally
Hyderabad, Telengana

Sub: Submission of DD for RC/RV (Revaluation) of B. Pharmacy II-I SEM - [College Code: 17] - Reg.

Respected Sir/Madam,

With respect to the subject cited above herewith I am submitting the Demand Draft of Rs. 1000/- for RC/RV Revaluation of B. Pharmacy II-I (R13) Student of our college. The details of DD payments ref no. are attached herewith.

Kindly accept the RC/RV FEES and do the needful in favor of the student for that I will be thankful to you.

Sl. No	Name of Student (s)	Hall ticket No	Name of Subject(s)	Code of the subject(s)	DD Amount (Rs)	Ref No / Date
B. Pharm III Year I Semester						
1.	BURRI RAJENDAR REDDY	14171R0023	STATISTICAL METHODS AND COMPUTER APPLICATIONS	213AC	1000/-	"129763" SBI 10-11-2022

Therefore, it is request to kindly do the needful.

Thanking you.

Yours' Faithfully

Principal
PRINCIPAL

Bharat Institute of Technology
Mangalpally (V), Ibrahimpatnam (M),
R.R. Dist - 501 510, Telangana.

2023.02.23 16:00



BHARAT INSTITUTE OF TECHNOLOGY

(Approved by AICTE & PCI, New Delhi and Affiliated to JNTU, Hyderabad)
Sponsored by : CHINTA REDDY MADHUSUDHAN REDDY EDUCATIONAL SOCIETY
Mangalpally (Village), Ibrahimpatnam (Mandal), Ranga Reddy District - 501 510.
Ph : 08414-252265, Fax : 08414-252645, E-mail : bltpharm@yahoo.com

Date: 25/05/2022

To
The Controller of Examination,
JNTUH, Kukatpally
Hyderabad, Telengana

Sub: Submission of DD for RC/RV (Revaluation) of B. Pharmacy Students - [College Code: 17] - Reg.

Respected Sir/Madam,

With respect to the subject cited above herewith I am submitting the Demand Draft of Rs. 6000/- for RC/RV Revaluation of B. Pharmacy IV-I, III-I, & III-II Semester Students of our college. The details of DD are attached herewith.

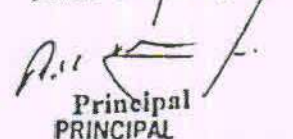
Kindly accept the DD and do the needful in favor of the student for that I will be thankful to you.

Sl. No	Name of Student (s)	Hall ticket No	Name of Subject(s) & Code	DD Amount (Rs)	DD No / Date
B. Pharm III Year I Semester					
1.	B. SHRUTHI	17171R0007	PHARMACOGNOSY AND PHYTOCHEMISTRY II (245AD)	1000/-	993713: 16-05-22
2.	CHIGURLA AKHILA	19171R0019	COSMETIC SCIENCE (245AH)	1000/-	175173: 18-05-22
3.	G. RAHUL	19171R0036	PHARMACOGNOSY AND PHYTOCHEMISTRY II (245AD)	1000/-	175174: 19-05-22
B. Pharm III Year II Semester					
4.	KUNAL BIYANI	18171R0033	PHARMACOLOGY-III (246AB)	1000/-	175172: 18-05-22
5.	M. MOUNIKA	17171R0046	HERBAL DRUG TECHNOLOGY (246AC)	1000/-	993714: 16-05-22
B. Pharm IV Year II Semester					
6.	YASINI PRAKASH REDDY	15171R0047	PHARMACEUTICAL ADMINISTRATION (227AE)	1000/-	045725: 12-05-22

Therefore, it is request to kindly do the needful.

Thanking you.

Yours' Faithfully


Principal
PRINCIPAL

Bharat Institute of Technology
Mangalpally (V), Ibrahimpatnam (M)
R.R. Dist. Pin: 501510





JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

ACADEMIC REGULATIONS OF B.PHARM. (REGULAR/FULL TIME) STUDENTS
WITH EFFECT FROM THE ACADEMIC YEAR 2017-18 (R-17)

1.0 Under-Graduate Degree Programme in Pharmacy

1.1 JNTUH offers a 4-year (8 semesters) **Bachelor of Pharmacy (B.Pharm.)** degree programme, under Choice Based Credit System (CBCS) at its affiliated colleges with effect from the academic year 2017-18.

2.0 Eligibility for admission

2.1 Admission to the under graduate programme shall be made either on the basis of the merit rank obtained by the qualified candidate in entrance test conducted by the Telangana State Government (EAMCET) or the University or on the basis of any other order of merit approved by the University, subject to reservations as prescribed by the government from time to time.

2.2 The medium of instructions for the entire under graduate programme in Pharmacy will be **English only**.

3.0 B.Pharm. Programme structure

3.1 A student after securing admission shall pursue the under graduate programme in B.Pharm. in a minimum period of **four** academic years (8 semesters), and a maximum period of **eight** academic years (16 semesters) starting from the date of commencement of first year first semester, failing which student shall forfeit seat in B.Pharm course.

A student shall register for all subjects for covering 196 credits and each student shall secure 196 credits (with CGPA ≥ 5) required for the completion of the under graduate programme and award of the B.Pharm. degree.

3.2 **UGC/ AICTE** specified definitions/ descriptions are adopted appropriately for various terms and abbreviations used in these academic regulations/ norms, which are listed below.

3.2.1 Semester scheme

Each under graduate programme is of 4 academic years (8 semesters) with the academic year being divided into two semesters of 22 weeks (≥ 90 instructional days) each, each semester shall have - 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester

System (CBSS) as indicated by UGC and curriculum / course structure as suggested by AICTE are followed.

3.2.2 Credit courses

All subjects/ courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/ course in an L: T: P: C (lecture periods: tutorial periods: practical periods: credits) structure based on the following general pattern.

- One credit for one hour/ week/ semester for theory/ lecture (L) courses.
- One credit for two hours/ week/ semester for laboratory/ practical (P) courses or tutorials (T).

Courses like environmental science, human values and professional ethics, gender sensitization lab and other student activities like NCC/NSO and NSS are identified as mandatory courses. These courses will not carry any credits.

3.2.3 Subject Course Classification

All subjects/ courses offered for the under graduate programme in Pharmacy (B.Pharm. degree programmes) are broadly classified as follows. The university has followed almost all the guidelines issued by AICTE/UGC.

S. No.	Broad Course Classification	Course Group/ Category	Course Description
1	Foundation Courses (FnC)	BS – Basic Sciences	Includes mathematics, physics and chemistry subjects.
2		PS - Pharmaceutical Sciences	Includes fundamental Pharmacy Subjects.
3		HS – Humanities and Social sciences	Includes subjects related to humanities, social sciences and management.
4	Core Courses (CoC)	PC – Professional Core	Includes core subjects related to the parent discipline.
5	Elective Courses (ElC)	OE – Open Electives	Includes elective subjects related to inter-disciplinary areas of Pharmacy or other than Pharmacy
6	Core Courses	Project Work	B.Pharm. project or UG project or UG major project
7		Seminar	Seminar/ Colloquium based on core contents related to parent discipline.
10	Minor courses	-	1 or 2 Credit courses (subset of HS)
11	Mandatory Courses (MC)	-	Mandatory courses (non-credit)

4.0 Course registration

- 4.1 A 'faculty advisor or counselor' shall be assigned to a group of 15 students, who will advise student about the under graduate programme, its course structure and curriculum, choice/option for subjects/ courses, based on their competence, progress, pre-requisites and interest.
- 4.2 The academic section of the college invites 'registration forms' from students before the beginning of the semester through 'on-line registration', ensuring 'date and time stamping'. The on-line registration requests for any 'current semester' shall be **completed before the commencement of semester end examinations of the 'preceding semester'**.
- 4.3 A student can apply for **on-line** registration, **only after** obtaining the 'written approval' from faculty advisor/counselor, which should be submitted to the college academic section through the Head of the Department. A copy of it shall be retained with Head of the Department, faculty advisor/ counselor and the student.
- 4.4 If the student submits ambiguous choices or multiple options or erroneous entries during **on-line** registration for the subject(s) / course(s) under a given/ specified course group/ category as listed in the course structure, only the first mentioned subject/ course in that category will be taken into consideration.
- 4.5 Subject/ course options exercised through **on-line** registration are final and cannot be changed or inter-changed; further, alternate choices also will not be considered. However, if the subject/ course that has already been listed for registration by the Head of the Department in a semester could not be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to have alternate choice either for a new subject (subject to offering of such a subject), or for another existing subject (subject to availability of seats). Such alternate arrangements will be made by the Head of the Department, with due notification and time-framed schedule, within the **first week** after the commencement of class-work for that semester.
- 4.6 **Open Electives:** Students have to choose one open elective (OE-I) in II year II semester, one (OE-II) in III year I semester, and one (OE-III) in III year II semester and one (OE-IV) in IV year II semester from the list of Open Electives.

5.0 Subjects/ courses to be offered

- 5.1 A typical section (or class) strength for each semester shall be 60.
- 5.2 A subject/ course may be offered to the students, **only if** a minimum of 20 students (1/3 of the section strength) opt for it. The maximum strength of a section is limited to 80 (60 + 1/3 of the section strength).
- 5.3 If more entries for registration of a subject come into picture, then the Head of Department concerned shall decide, whether or not to offer such a subject/ course for **two (or multiple) sections**.


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6.0 Attendance requirements:

- 6.1 Attendance in all classes (Lectures/Laboratories/Project Work) is compulsory. The minimum required attendance in aggregate of all the subjects/ courses including the attendance of mid-term examination / Laboratory etc. is 75%. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than 75% (excluding attendance in mandatory courses environmental science, human values and professional ethics, gender sensitization Lab, NCC/NSO, NSS and Industrial Training) for that semester.
- 6.2 Condoning of shortage of attendance (between 65% and 75%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each semester shall be granted by the College Academic Committee on genuine and valid grounds, based on the student's representation with supporting evidence.
- 6.3 A stipulated fee shall be payable towards condoning of shortage of attendance.
- 6.4 Shortage of attendance below 65% in aggregate shall in **no case be condoned**.
- 6.5 Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examinations of that semester. They get detained and their registration for that semester shall stand cancelled. They will not be promoted to the next semester. They may seek re-registration for all those subjects registered in that semester in which student was detained, by seeking re-admission into that semester as and when offered; in case if there are any open electives, the same may also be re-registered if offered. However, if those electives are not offered in later semesters, then alternate electives may be chosen from the **same** set of elective subjects offered under that category.
- 6.6 A student fulfilling the attendance requirement in the present semester shall not be eligible for readmission into the same class.

7.0 Academic requirements

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in item no.6.

- 7.1 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course, if student secures not less than 35% marks (26 out of 75 marks) in the semester end examination, and a minimum of 40% of marks in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of letter grades, this implies securing 'C' grade or above in that subject/ course.

7.2 Promotion Rules

S. No.	Promotion	Conditions to be fulfilled
1	First year first semester to first year second semester	Regular course of study of first year first semester.

2	First year second semester to second year first semester	(i) Regular course of study of first year second semester. (ii) Must have secured at least 24 credits out of 48 credits i.e., 50% of credits up to first year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3.	Second year first semester to second year second semester	Regular course of study of second year first semester.
4	Second year second semester to third year first semester	(i) Regular course of study of second year second semester. (ii) Must have secured at least 58 credits out of 96 credits i.e., 60% of credits up to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	Third year first semester to third year second semester	Regular course of study of third year first semester.
6	Third year second semester to fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 86 credits out of 144 credits i.e., 60% of credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
7	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

7.3 A student shall register for all subjects covering 196 credits as specified and listed in the course structure, fulfills all the attendance and academic requirements for 196 credits, 'earn all 196 credits' by securing SGPA ≥ 5.0 (in each semester) and CGPA (at the end of each successive semester) ≥ 5.0 to successfully complete the under graduate programme.

7.4 After securing the necessary 196 credits as specified for the successful completion of the entire under graduate programme, the student can avail exemption of two subjects up to 6 credits, that is, two open elective subjects for optional drop out from these 196 credits earned; resulting in 190 credits for under graduate programme performance evaluation, i.e., the performance of the student in these 190 credits shall alone be taken into account for the calculation of 'the final CGPA (at the end of under graduate programme, which takes the SGPA of the IV year II semester into account), and shall be indicated in the

grade card of IV year II semester. However, the performance of student in the earlier individual semesters, with the corresponding SGPA and CGPA for which grade cards have already been given will not be altered.

- 7.5 If a student registers for some more 'extra subjects' other than those listed subjects totaling to 196 credits as specified in the course structure, the performances in those 'extra subjects' (although evaluated and graded using the same procedure as that of the required 196 credits) will not be taken into account while calculating the SGPA and CGPA. For such 'extra subjects' registered, % of marks and letter grade alone will be indicated in the grade card as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations 6 and 7.1 – 7.4 above.
- 7.6 A student eligible to appear in the end semester examination for any subject/ course, but absent from it or failed (thereby failing to secure 'C' grade or above) may reappear for that subject/ course in the supplementary examination as and when conducted. In such cases, CIE assessed earlier for that subject/ course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.
- 7.7 A student **detained in a semester due to shortage of attendance, may be re-admitted when the same semester is offered in the next academic year for fulfillment of academic requirements.** The academic regulations under which student has been readmitted shall be applicable. However, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which student has been detained.
- 7.8 A student **detained due to lack of credits, shall be promoted to the next academic year only after acquiring the required academic credits.** The academic regulations under which student has been readmitted shall be applicable to him.

Note: (1) The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum B grade in all the subjects.

(2) CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters.

8.0 Evaluation - Distribution and Weightage of marks

- 8.1 The performance of a student in every subject/course (including practicals and UG major project) will be evaluated for 100 marks each, with 25 marks allotted for CIE (Continuous Internal Evaluation) and 75 marks for SEE (Semester End-Examination).
- 8.2 For theory subjects, during a semester, there shall be two mid-term examinations. Each mid-term examination consists of one objective paper, one descriptive paper and one assignment. The objective paper and the essay paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for objective and 60 minutes for essay paper). The objective paper is set with 20 bits of multiple choice, fill-in the blanks and matching type of questions for a total of 10 marks. The essay paper shall contain 4 full

questions out of which, the student has to answer 2 questions, each carrying 5 marks. While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus. Five marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first mid-examination, and the second assignment should be submitted before the conduct of the second mid-examination. The total marks secured by the student in each mid-term examination are evaluated for 25 marks, and the average of the two mid-term examinations shall be taken as the final marks secured by each student in internals/sessionals. If any student is absent from any subject of a mid-term examination, an on-line test will be conducted for him by the university. The details of the question paper pattern are as follows,

- The end semester examinations will be conducted for 75 marks consisting of two parts viz. i) **Part- A** for 25 marks, ii) **Part - B** for 50 marks.
- Part-A is compulsory question which consists of ten sub-questions. The first five sub-questions are from each unit and carry 2 marks each. The next five sub-questions are one from each unit and carry 3 marks each.
- Part-B consists of five questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an "either" "or" choice, which means that there will be two questions from each unit and the student should answer either of the two questions.

- 8.3** For practical subjects there shall be a continuous internal evaluation during the semester for 25 sessional marks and 75 semester end examination marks. Out of the 25 marks for internal evaluation, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 10 marks conducted by the laboratory teacher concerned. The semester end examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the clusters of colleges which are decided by the examination branch of the university.
- 8.4** There shall be an Industrial Training in IV year I semester. For the Industrial Training, the student 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 IV year I semester and before the commencement of IV year II semester, the student shall submit satisfactory report of the work and certificate duly signed by the authority of training organization to the head of the institute.
- 8.5 Practice School:** In the IV year I semester, every candidate shall undergo a 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 departmental 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). The report shall be submitted to the departmental committee consisting of Head of the Institution, Head of the Department and a senior faculty member. The practice school report shall be evaluated for 100 marks and grade point shall be awarded.

- 8.6 Out of a total of 100 marks for the UG major project, 25 marks shall be allotted for internal evaluation and 75 marks for the end semester examination (viva voce). The end semester examination of the project work shall be conducted by a committee consisting of external examiner, Head of the Department, supervisor of the project and a senior faculty member. The evaluation of UG major project shall be made at the end of IV year II semester. The internal evaluation shall be on the basis of two seminars given by each student on the topic of UG major project.
- 8.7 The laboratory marks and the sessional marks awarded by the college are subject to scrutiny and scaling by the university wherever necessary. In such cases, the sessional and laboratory marks awarded by the college will be referred to a committee. The committee will arrive at a scaling factor and the marks will be scaled accordingly. The recommendations of the committee are final and binding. The laboratory records and internal test papers shall be preserved in the respective institutions as per the university rules and produced before the committees of the university as and when asked for.
- 8.8 For mandatory courses environmental science, human values and professional ethics, gender sensitization lab and Industrial Training a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course.
- 8.9 For mandatory courses NCC/ NSO and NSS, a 'satisfactory participation certificate' shall be issued to the student from the authorities concerned, only after securing $\geq 65\%$ attendance in such a course.
- 8.10 No marks or letter grade shall be allotted for all mandatory/non-credit courses.
- 9.0 **Grading procedure**
- 9.1 Marks will be awarded to indicate the performance of student in each theory subject, laboratory / practicals and UG major project. Based on the percentage of marks obtained (Continuous Internal Evaluation plus Semester End Examination, both taken together) as specified in item 8 above, a corresponding letter grade shall be given.
- 9.2 As a measure of the performance of student, a 10-point absolute grading system using the following letter grades (as per UGC/AICTE guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10

80 and less than 90%	A ⁺ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B ⁺ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	Ab	0

- 9.3 A student obtaining 'F' grade in any subject shall be deemed to have 'failed' and is required to reappear as a 'supplementary student' in the semester end examination, as and when offered. In such cases, internal marks in those subjects will remain the same as those obtained earlier.
- 9.4 A student who has not appeared for examination in any subject, 'Ab' grade will be allocated in that subject, and student shall be considered 'failed'. Student will be required to reappear as a 'supplementary student' in the semester end examination, as and when offered.
- 9.5 A letter grade does not indicate any specific percentage of marks secured by the student, but it indicates only the range of percentage of marks.
- 9.6 A student earns grade point (GP) in each subject/ course, on the basis of the letter grade secured in that subject/ course. The corresponding 'credit points' (CP) are computed by multiplying the grade point with credits for that particular subject/ course.

Credit points (CP) = grade point (GP) x credits For a course

- 9.7 The student passes the subject/ course only when $GP \geq 5$ ('C' grade or above)
- 9.8 The semester grade point average (SGPA) is calculated by dividing the sum of credit points ($\sum CP$) secured from all subjects/ courses registered in a semester, by the total number of credits registered during that semester. SGPA is rounded off to two decimal places. SGPA is thus computed as

$$SGPA = \{ \sum_{i=1}^N C_i G_i \} / \{ \sum_{i=1}^N C_i \} \dots \text{For each semester,}$$

where 'i' is the subject indicator index (takes into account all subjects in a semester), 'N' is the no. of subjects 'registered' for the semester (as specifically required and listed under the course structure of the parent department), C_i is the no. of credits allotted to the i^{th} subject, and G_i represents the grade points (GP) corresponding to the letter grade awarded for that i^{th} subject.

- 9.9 The cumulative grade point average (CGPA) is a measure of the overall cumulative performance of a student in all semesters considered for registration. The CGPA is the ratio of the total credit points secured by a student in all registered courses in all semesters, and the total number of credits registered in all the semesters. CGPA is rounded off to two decimal places. CGPA is thus computed from the I year II semester onwards at the end of each semester as per the formula

$$CGPA = \{ \sum_{j=1}^M C_j G_j \} / \{ \sum_{j=1}^M C_j \} \dots \text{for all S semesters registered}$$

(i.e., up to and inclusive of S semesters, $S \geq 2$),

where 'M' is the total no. of subjects the student has 'registered' i.e., from the 1st semester onwards up to and inclusive of the 8th semester, 'j' is the subject indicator index (takes into account all subjects from 1 to 8 semesters), C_j is the no. of credits allotted to the j^{th} subject, and G_j represents the grade points (GP) corresponding to the letter grade awarded for that j^{th} subject. After registration and completion of first year first semester, the SGPA of that semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	O	10	$4 \times 10 = 40$
Course 3	4	C	5	$4 \times 5 = 20$
Course 4	3	B	6	$3 \times 6 = 18$
Course 5	3	A+	9	$3 \times 9 = 27$
Course 6	3	C	5	$3 \times 5 = 15$
	Total Credits = 21			Total Credit Points = 152

$$\text{SGPA} = 152/21 = 7.24$$

Illustration of calculation of CGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
I Year I Semester				
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	A+	9	$4 \times 9 = 36$
Course 3	4	B	6	$4 \times 6 = 24$
Course 4	3	O	10	$3 \times 10 = 30$
Course 5	3	B+	7	$3 \times 7 = 21$
Course 6	3	A	8	$3 \times 8 = 24$
I Year II Semester				
Course 7	4	B+	7	$4 \times 7 = 28$
Course 8	4	O	10	$4 \times 10 = 40$
Course 9	4	A	8	$4 \times 8 = 32$
Course 10	3	B	6	$3 \times 6 = 18$
Course 11	3	C	5	$3 \times 5 = 15$
Course 12	3	A+	9	$3 \times 9 = 27$
	Total Credits = 42			Total Credit Points = 327

$$\text{CGPA} = 327/42 = 7.79$$

9.10 For merit ranking or comparison purposes or any other listing, **only the 'rounded off'** values of the CGPAs will be used.

9.11 For calculations listed in regulations 9.6 to 9.9, performance in failed subjects/ courses (securing F grade) will also be taken into account, and the credits of such subjects/ courses will also be included in the multiplications and summations. After passing the failed subject(s) newly secured letter grades will be taken into account for calculation of SGPA and CGPA. However, mandatory courses will not be taken into consideration.

10.0 Passing standards

10.1 A student shall be declared successful or 'passed' in a semester, if student secures a $GP \geq 5$ ('C' grade or above) in every subject/course in that semester (i.e. when student gets an $SGPA \geq 5.00$ at the end of that particular semester); and a student shall be declared successful or 'passed' in the entire under graduate programme, only when gets a $CGPA \geq 5.00$ for the award of the degree as required.

10.2 After the completion of each semester, a grade card or grade sheet (or transcript) shall be issued to all the registered students of that semester, indicating the letter grades and credits earned. It will show the details of the courses registered (course code, title, no. of credits, and grade earned etc.), credits earned, SGPA, and CGPA.

11.0 Declaration of results

11.1 Computation of SGPA and CGPA are done using the procedure listed in 9.6 to 9.9.

11.2 For final percentage of marks equivalent to the computed final CGPA, the following formula may be used.

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

12.0 Award of degree

12.1 A student who registers for all the specified subjects/ courses as listed in the course structure and secures the required number of 196 credits (with $CGPA \geq 5.0$), within 8 academic years from the date of commencement of the first academic year, shall be declared to have '**qualified**' for the award of the B.Pharm. degree.

12.2 A student who qualifies for the award of the degree as listed in item 12.1 shall be placed in the following classes.

12.3 Students with final CGPA (at the end of the under graduate programme) ≥ 8.00 , and fulfilling the following conditions -

- (i) Should have passed all the subjects/courses in '**first appearance**' within the first 4 academic years (or 8 sequential semesters) from the date of commencement of first year first semester.
- (ii) Should have secured a $CGPA \geq 8.00$, at the end of each of the 8 sequential semesters, starting from first year first semester onwards.

- (iii) Should not have been detained or prevented from writing the end semester examinations in any semester due to shortage of attendance or any other reason, shall be placed in '**first class with distinction**'.
- 12.4 Students with final CGPA (at the end of the under graduate programme) ≥ 6.50 but < 8.00 , shall be placed in '**first class**'.
- 12.5 Students with final CGPA (at the end of the under graduate programme) ≥ 5.50 but < 6.50 , shall be placed in '**second class**'.
- 12.6 All other students who qualify for the award of the degree (as per item 12.1), with final CGPA (at the end of the under graduate programme) ≥ 5.00 but < 5.50 , shall be placed in '**pass class**'.
- 12.7 A student with final CGPA (at the end of the under graduate programme) < 5.00 will not be eligible for the award of the degree.
- 12.8 Students fulfilling the conditions listed under item 12.3 alone will be eligible for award of '**university rank**' and '**gold medal**'.
- 13.0 **Withholding of results**
- 13.1 If the student has not paid the fees to the university/ college at any stage, or has dues pending due to any reason whatsoever, or if any case of indiscipline is pending, the result of the student may be withheld, and student will not be allowed to go into the next higher semester. The award or issue of the degree may also be withheld in such cases.
- 14.0 **Transitory regulations**
- A. **For students detained due to shortage of attendance:**
1. A Student who has been detained in I year of R09/R13/R15/R16 Regulations due to lack of attendance, shall be permitted to join I year I Semester of R17 Regulations and he is required to complete the study of B. Pharmacy programme within the stipulated period of eight academic years from the date of first admission in I Year.
 2. A student who has been detained in any semester of II, III and IV years of R09/R13/R15/R16 regulations for want of attendance, shall be permitted to join the corresponding semester of R17 regulations and is required to complete the study of B. Pharmacy within the stipulated period of eight academic years from the date of first admission in I Year. The R17 Academic Regulations under which a student has been readmitted shall be applicable to that student from that semester.
- See rule (C) for further Transitory Regulations.
- B. **For students detained due to shortage of credits:**
3. A student of R09/R13/R15/R16 Regulations who has been detained due to lack of credits, shall be promoted to the next semester of R17 Regulations only after acquiring the required credits as per the corresponding regulations of his/her first admission. The student is required to complete the study of B. Pharmacy within the stipulated period of

eight academic years from the year of first admission. The R17 Academic Regulations are applicable to a student from the year of readmission onwards.

See rule (C) for further Transitory Regulations.

C. For readmitted students in R17 Regulations:

4. A student who has failed in any subject under any regulation has to pass those subjects in the same regulations.
5. The maximum credits that a student acquires for the award of degree, shall be the sum of the total number of credits secured in all the regulations of his/her study including R17 Regulations. The performance evaluation of the student will be done after the exemption of two subjects if total credits acquired are ≤ 206 , three subjects if total credits acquired are > 206 (see R17 Regulations for exemption details).
6. If a student readmitted to R17 Regulations, has any subject with 80% of syllabus common with his/her previous regulations, that particular subject in R17 Regulations will be substituted by another subject to be suggested by the University.

Note: If a student readmitted to R17 Regulations, has not studied any subjects/topics in his/her earlier regulations of study which is prerequisite for further subjects in R17 Regulations, the College Principals concerned shall conduct remedial classes to cover those subjects/topics for the benefit of the students.

15.0 Student transfers

- 15.1 There shall be no branch transfers after the completion of admission process.
- 15.2 There shall be no transfers from one college/stream to another within the constituent colleges and units of Jawaharlal Nehru Technological University Hyderabad.
- 15.3 The students seeking transfer to colleges affiliated to JNTUH from various other Universities/institutions have to pass the failed subjects which are equivalent to the subjects of JNTUH, and also pass the subjects of JNTUH which the students have not studied at the earlier institution. Further, though the students have passed some of the subjects at the earlier institutions, if the same subjects are prescribed in different semesters of JNTUH, the students have to study those subjects in JNTUH in spite of the fact that those subjects are repeated.
- 15.4 The transferred students from other Universities/institutions to JNTUH affiliated colleges who are on rolls to be provide one chance to write the CBT (internal marks) in the **failed subjects and/or subjects not studied** as per the clearance letter issued by the university.
- 15.5 The autonomous affiliated colleges have to provide one chance to write the internal examinations in the **failed subjects and/or subjects not studied**, to the students transferred from other universities/institutions to JNTUH autonomous affiliated colleges who are on rolls, as per the clearance (equivalence) letter issued by the University.

16.0 Scope

- 16.1 The academic regulations should be read as a whole, for the purpose of any interpretation.
- 16.2 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- 16.3 The university may change or amend the academic regulations, course structure or syllabi at any time, and the changes or amendments made shall be applicable to all students with effect from the date notified by the university authorities.



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD (Established by Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

Academic Regulations for B.Pharm. (Lateral Entry Scheme) w.e.f the AY 2018-19

1. Eligibility for award of B. Pharm. Degree (LES)

- The LES students after securing admission shall pursue a course of study for not less than three academic years and not more than six academic years.
2. The student shall register for 147 credits and secure 147 credits with CGPA ≥ 5 from II year to IV year B.Pharm. programme (LES) for the award of B.Pharm. degree. **Out of the 147 credits secured, the student can avail exemption up to 6 credits**, that is, two open elective subjects resulting in 141 credits for B.Pharm programme performance evaluation.
3. The students, who fail to fulfil the requirement for the award of the degree in six academic years from the year of admission, shall forfeit their seat in B.Pharm.
4. The attendance requirements of B. Pharm. (Regular) shall be applicable to B.Pharm. (LES).

5. Promotion rule

S. No	Promotion	Conditions to be fulfilled
1	Second year first semester to second year second semester	Regular course of study of second year first semester.
2	Second year second semester to third year first semester	(i) Regular course of study of second year second semester. (ii) Must have secured at least 29 credits out of 48 credits i.e., 60% of credits up

		to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3	Third year first semester to third year second semester	Regular course of study of third year first semester.
4	Third year second semester to fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 58 credits out of 96 credits i.e., 60% of credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

6. All the other regulations as applicable to B. Pharm. 4-year degree course (Regular) will hold good for B. Pharm. (Lateral Entry Scheme).

MALPRACTICES RULES

DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS

	Nature of Malpractice/Improper conduct	Punishment
	If the student:	
1. (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which student is appearing but has not made use of (material shall include any marks on the body of the student which can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	Gives assistance or guidance or receives it from any other student orally or by any other body language methods or	Expulsion from the examination hall and cancellation of the performance in that subject only of all the students involved. In case of an

	communicates through cell phones with any student or persons in or outside the exam hall in respect of any matter.	outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the student is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The hall ticket of the student is to be cancelled and sent to the university.
3.	Impersonates any other student in connection with the examination.	The student who has impersonated shall be expelled from examination hall. The student is also debarred and forfeits the seat. The performance of the original student who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and UG major project) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.

6.	Refuses to obey the orders of the chief superintendent/assistant superintendent / any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the college campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the student(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The students also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat.
9.	If student of the college, who is not a student for the particular examination or	Student of the colleges expulsion from the examination hall and cancellation of the

	any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat. Person(s) who do not belong to the college will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the student has appeared including practical examinations and UG major project of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the university for further action to award suitable punishment.	

Malpractices identified by squad or special invigilators

1. Punishments to the students as per the above guidelines.
2. Punishment for institutions : (if the squad reports that the college is also involved in encouraging malpractices)
 - a. A show cause notice shall be issued to the college.
 - b. Impose a suitable fine on the college.
 - c. Shifting the examination centre from the college to another college for a specific period of not less than one year.

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भारत का राजपत्र The Gazette of India

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No. 19] NEW DELHI, SATURDAY, MAY 10—MAY 16, 2008 (VAISAKHA 20, 1930)

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

भाग III—खण्ड 4

[PART III—SECTION 4]

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

भारतीय रिज़र्व बैंक

मुंबई-400001, दिनांक 9 अप्रैल 2008

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

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

PRINCIPAL

Bharat Institute of Technology
Mangalpally (V), Ibrahimpatnam (M),
R.R. Dist - 501 510, Telangana.

आनन्द सिन्हा
कार्यपालक निदेशक

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

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

New Delhi, 10th May, 2008.

Pharm.D. Regulations 2008

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

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

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

CHAPTER-I

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

[Handwritten Signature]
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CHAPTER-II

3. Duration of the course. –

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

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

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

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

Phase I – consisting of First and Second academic year.

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

4. Minimum qualification for admission to. –

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

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

Mathematics or Biology.

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

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

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

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


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

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

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

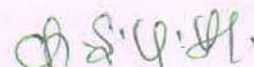
5. Number of admissions in the above said programmes shall be as prescribed by the Pharmacy Council of India from time to time and presently be restricted as below -
 - i) Pharm.D. Programme - 30 students.
 - ii) Pharm.D. (Post Baccalaureate) Programme - 10 students.
6. Institutions running B.Pharm programme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

TABLES

First Year :

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

* For Biology

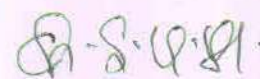

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Second Year:

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

Third Year:

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



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Fourth Year:

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

Fifth Year:

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

* Attending ward rounds on daily basis.


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Sixth Year:

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

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

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

TABLES**First Year examination :**

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

* for Biology.

Second Year examination :

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

Third Year examination :

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

Fourth Year examination :

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


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Fifth Year examination :

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

* Attending ward rounds on daily basis.

** 30 marks – viva-voce (oral)

70 marks – Thesis work

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

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

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

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

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

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

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

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

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

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

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

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CHAPTER-III

Practical training

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

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23. Reporting .— (1) Student working on the project shall submit jointly to the Head of the Department or Head of the Institution a project report of about 40-50 pages. Project report should include a certificate issued by the authorised teacher, Head of the Department as well as by the Head of the Institution

(2) Project report shall be computer typed in double space using Times Roman font on A4 paper. The title shall be in bold with font size 18, sub-titles in bold with font size 14 and the text with font size 12. The cover page of the project report shall contain details about the name of the student and the name of the authorised teacher with font size 14.

(3) Submission of the project report shall be done at least one month prior to the commencement of annual or supplementary examination.

24. Evaluation.— The following methodology shall be adopted for evaluating the project work—

(i) Project work shall be evaluated by internal and external examiners.

(ii) Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of four students).

(iii) Three seminars presented by students shall be evaluated for twenty marks each and the average of best two shall be forwarded to the university with marks of other subjects.


(iv) Evaluation shall be done on the following items:

	Marks
a) Write up of the seminar	(7.5)
b) Presentation of work	(7.5)
c) Communication skills	(7.5)
d) Question and answer skills	(7.5)
Total	(30 marks)

(v) Final evaluation of project work shall be done on the following items:

	Marks
a) Write up of the seminar	(17.5)
b) Presentation of work	(17.5)
c) Communication skills	(17.5)
d) Question and answer skills	(17.5)
Total	(70 marks)

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


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Act No.30 of 2008)

Kukatpally, Hyderabad-500085, Telangana State (India)

**Academic Regulations of M.Pharm. (Regular/Full Time) Programmes, 2019-20 (R19)
(CBCS)**

(Effective for the students admitted into 1 year from the Academic Year 2019-20 and onwards)

- 1.0 **Post-Graduate Degree Programmes in Pharmacy (PGP in Pharmacy)** Jawaharlal Nehru Technological University Hyderabad (JNTUH) offers **Two Years (Four Semesters)** full-time Master of Pharmacy (M.Pharm.) Degree programmes, under Choice Based Credit System (CBCS) at its constituent (non-autonomous) and affiliated colleges in different specializations.
- 2.0 **Eligibility for Admissions**
 - 2.1 Admission to the PGPs shall be made subject to eligibility, qualification and specializations prescribed by the University from time to time, for each specialization under each M.Pharm. programme.
 - 2.2 Admission to the post graduate programme shall be made on the basis of either the merit rank or Percentile obtained by the qualified student in the relevant qualifying GPAT Examination/ the merit rank obtained by the qualified student in an entrance test conducted by Telangana State Government (PGE CET) for M.Pharm. programmes / an entrance test conducted by JNTUH/ on the basis of any other exams approved by the University, subject to reservations as laid down by the Govt. from time to time.
 - 2.3 The medium of instructions for all PG Programmes will be **ENGLISH** only.
- 3.0 **M.Pharm. Programme (PGP in Pharmacy) Structure**
 - 3.1 The M.Pharm. Programmes in Pharmacy of JNTUH are of Semester pattern, with **Four** Semesters, consisting of **Two** academic years, each academic year having **Two** Semesters (First/Odd and Second/Even Semesters). Each Semester shall be of 22 weeks duration (inclusive of Examinations), with a minimum of 90 instructional days per Semester.
 - 3.2 The student shall not take more than four academic years to fulfill all the academic requirements for the award of M.Pharm. degree from the date of commencement of first year first semester, failing which the student shall forfeit the seat in M.Pharm. programme.
 - 3.3 **UGC/AICTE** specified definitions/descriptions are adopted appropriately for various terms and abbreviations used in these PG academic regulations, as listed below:
 - 3.3.1 **Semester Scheme**

Each Semester shall have 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) are taken as 'references' for the present set of Regulations. The terms 'SUBJECT' and 'COURSE' imply the same meaning here and refer to 'Theory Subject', or 'Lab Course', or 'Design/Drawing Subject', or 'Mini Project with Seminar', or 'Dissertation', as the case may be.
 - 3.3.2 **Credit Courses**

All subjects/courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/course in an L: T: P: C (Lecture Periods: Tutorial Periods: Practical Periods: Credits) structure based on the following general pattern:



- One credit for one hour/week/semester for theory/lecture (L) courses
- One credit for two hours/ week/semester for laboratory/ practical (P) courses or tutorials (T)

Other student activities like study tour, guest lecture, conference/workshop participations, technical paper presentations and mandatory courses (**Audit Courses**) will not carry any credits.

3.3.3 Subject Course Classification

All subjects/courses offered for the Post-Graduate Programme in Pharmacy (M.Pharm. Degree Programme) are broadly classified as follows. The University has followed in general the guidelines issued by AICTE/UGC.

S.No.	Broad Course Classification	Course Group/ Category	Course Description
1	Core Courses (CoC)	PC- Professional Core	Includes subjects related to the Specialization in Pharmacy
		Dissertation	M.Pharm. Project or PG Project or Major Project
		Mini Project with Seminar	Seminar based on core contents related to the Specialization in Pharmacy
2	Elective Courses (EiE)	PE - Professional Electives	Includes elective subjects related to the Specialization in Pharmacy
		OE - Open Electives	Elective subjects which include inter-disciplinary subjects or subjects in an area outside the Specialization in Pharmacy
3	Mandatory Courses	—	Non-Credit Audit Courses

4.0 Course Registration

- 4.1 A 'Faculty Advisor or Counselor' shall be assigned to each specialization, who will advise on the Post Graduate Programme (PGP), its Course Structure and Curriculum, Choice/Option for Subjects/ Courses, based on his competence, progress, pre-requisites and interest.
- 4.2 The Academic Section of the College invites 'Registration Forms' from students within 15 days from the commencement of class work through 'ON-LINE SUBMISSIONS', ensuring 'DATE and TIME Stamping'. The ON-LINE Registration Requests for any 'CURRENT SEMESTER' shall be completed BEFORE the commencement of SEEs (Semester End Examinations) of the 'PRECEDING SEMESTER'.
- 4.3 A Student can apply for ON-LINE Registration, ONLY AFTER obtaining the 'WRITTEN APPROVAL' from his Faculty Advisor, which should be submitted to the College Academic Section through the Head of Department (a copy of it being retained with Head of Department, Faculty Advisor and the Student).
- 4.4 If the Student submits ambiguous choices or multiple options or erroneous entries during ON-LINE Registration for the Subject(s) / Course(s) under a given/ specified Course Group/ Category as listed in the Course Structure, only the first mentioned Subject/ Course in that Category will be taken into consideration.
- 4.5 Subject/ Course Options exercised through ON-LINE Registration are final and CANNOT be changed, nor can they be inter-changed; further, alternate choices also will not be considered. However, if the Subject/ Course that has already been listed for Registration by the University in a Semester could not be offered due to unforeseen or unexpected reasons, then the Student will be allowed to have alternate



choice either for a new Subject, if it is offered, or for another existing Subject (subject to availability of seats). Such alternate arrangements will be made by the Head of Department, with due notification and time-framed schedule, within the FIRST WEEK from the commencement of Class-work for that Semester.

5.0 Attendance Requirements

The programmes are offered based on a unit system with each subject being considered a unit. Attendance is calculated separately for each subject.

- 5.1 Attendance in all classes (Lectures/Laboratories) is compulsory. The minimum required attendance in each theory subject (**also mandatory(audit) courses**) including the attendance of mid-term examination / Laboratory etc. is 75%. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. ***This attendance should also be included in the fortnightly upload of attendance to the University. The attendance of mandatory(audit) courses should be uploaded separately to the University.*** A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than 75%.
- 5.2 A student's Seminar report and presentation on Mini Project shall be eligible for evaluation, only if he ensures a minimum of 75% of his attendance in Seminar presentation classes on Mini Project during that Semester.
- 5.3 **Condoning of shortage of attendance** (between 65% and 75%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each subject (Theory/Lab/Mini Project with Seminar) of a semester shall be granted by the College Academic Committee on genuine reasons.
- 5.4 A prescribed fee per subject shall be payable for condoning shortage of attendance after getting the approval of College Academic Committee for the same. The College Academic Committee shall maintain relevant documents along with the request from the student.
- 5.5 Shortage of Attendance below 65% in any subject shall in **no case be condoned**.
- 5.6 A Student, whose shortage of attendance is not condoned in any Subject(s) (Theory/Lab/Mini Project with Seminar) in any Semester, is considered as 'Detained in that Subject(s), and is not eligible to write Semester End Examination(s) of such Subject(s), (in case of Mini Project with Seminar, his/her Mini Project with Seminar Report or Presentation are not eligible for evaluation) in that Semester; and he/she has to seek re-registration for those Subject(s) in subsequent Semesters, and attend the same as and when offered.
- 5.7 A student fulfills the attendance requirement in the present semester, shall not be eligible for readmission into the same class.
- 5.8 a) A student shall put in a minimum required attendance in at least **three theory subjects (excluding mandatory(audit) course)** in first Year I semester for promotion to first Year II Semester.
- b) A student shall put in a minimum required attendance in at least **three theory subjects (excluding mandatory(audit) course)** in first Year II semester for promotion to second Year I Semester.

6.0 Academic Requirements

The following academic requirements must be satisfied, in addition to the attendance requirements mentioned in item no. 5. The performance of the candidate in each semester shall be evaluated subject-



wise, with a maximum of 100 marks per subject / course (theory / practical), based on Internal Evaluation and Semester End Examination.

- 6.1 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/course, if he secures not less than 40% of marks (30 out of 75 marks) in the End Semester Examination, and a minimum of 50% of marks in the sum total of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of Letter Grades and this implies securing 'B' Grade or above in a subject.
- 6.2 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to Mini Project with seminar, if student secures not less than 50% marks (i.e. 50 out of 100 allotted marks). The student would be treated as failed, if student (i) does not submit a seminar report on Mini Project or does not make a presentation of the same before the evaluation committee as per schedule or (ii) secures less than 50% marks in Mini Project with seminar evaluation. The failed student shall reappear for the above evaluation when the notification for supplementary examination is issued.
- 6.3 A student shall register for all subjects for total of 68 credits as specified and listed in the course structure for the chosen specialization, put in required the attendance and fulfill the academic requirements for securing 68 credits obtaining a minimum of 'B' Grade or above in each subject, and all 68 credits securing Semester Grade Point Average (SGPA) ≥ 6.0 (in each semester) and final Cumulative Grade Point Average (CGPA) (i.e., CGPA at the end of PGP) ≥ 6.0 , and shall **pass all the mandatory(audit) courses** to complete the PGP successfully.

Note: (1) The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum B grade in all the subjects.

(2) CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters

- 6.4 Marks and Letter Grades obtained in all those subjects covering the above specified 68 credits alone shall be considered for the calculation of final CGPA, which will be indicated in the Grade Card / Marks Memo of second year second semester.
- 6.5 If a student registers for extra subject(s) (in the parent specialization or other specializations of Pharmacy) other than those listed subjects totaling to 68 credits as specified in the course structure, the performance in extra subject(s) (although evaluated and graded using the same procedure as that of the required 68 credits) will not be considered while calculating the SGPA and CGPA. For such extra subject(s) registered, percentage of marks and Letter Grade alone will be indicated in the Grade Card/Marks Memo, as a performance measure, subject to completion of the attendance and academic requirements as stated in items 5 and 6.1 - 6.3.
- 6.6 When a student is detained due to shortage of attendance in any subject(s) in any semester, no Grade allotment will be made for such subject(s). However, he is eligible for re-registration of such subject(s) in the subsequent semester(s), as and when next offered, with the academic regulations of the batch into which he is re-registered, by paying the prescribed fees per subject. In all these re-registration cases, the student shall have to secure a fresh set of internal marks and Semester End Examination marks for performance evaluation in such subject(s), and SGPA/CGPA calculations.
- 6.7 A student eligible to appear for the Semester End Examination in any subject, but absent from it or failed (failing to secure 'B' Grade or above), may reappear for that subject at the supplementary examination as and when conducted. In such cases, his Internal Marks assessed earlier for that subject will be carried over, and added to the marks secured in the supplementary examination, for



the purpose of evaluating his performance in that subject.

- 6.8 A Student who fails to earn **68** credits as per the specified course structure, and as indicated above, within **four** academic years from the date of commencement of his first year first semester, shall forfeit his seat in M.Pharm. programme and his admission **shall stand cancelled**.

7.0 Evaluation - Distribution and Weightage of Marks

The performance of a student in each semester shall be evaluated subject- wise (irrespective of credits assigned) for a maximum of 100 marks.

- 7.1 For the theory subjects 75 marks shall be awarded for the performance in the Semester End Examination and 25 marks shall be awarded for Continuous Internal Evaluation (CIE). The Continuous Internal Evaluation shall be made based on the average of the marks secured in the two Mid-Term Examinations conducted, first Mid-Term examinations in the middle of the Semester and second Mid-Term examinations during the last week of instruction. Each Mid-Term Examination shall be conducted for a total duration of 120 minutes with Part 'A' as compulsory consisting of 5 questions carrying 2 marks each (10 marks), and Part 'B' with 3 questions to be answered out of 5 questions, each question carrying 5 marks (15 marks). The details of the Question Paper pattern for Semester End Examination (Theory) are given below:

- The Semester End Examination will be conducted for 75 marks. It consists of two parts.
 - i) Part A for 25 marks, ii) Part B for 50 marks.
- Part A is compulsory and consists of 5 questions, one from each unit and carrying 5 marks each.
- Part B consists of 5 questions carrying 10 marks each. There will be two questions from each unit and only one should be answered.

- 7.2 For practical subjects, 75 marks shall be awarded for performance in the Semester End Examinations and 25 marks shall be awarded for day-to-day performance as Internal Marks.

- 7.3 For conducting laboratory end examinations of all PG Programmes, one internal examiner and one external examiner are to be appointed by the Principal of the College and this is to be informed to the Director of Evaluation within two weeks, before commencement of the lab end examinations. The external examiner should be selected from outside the College concerned but within the cluster. No external examiner should be appointed from any other College in the same cluster/any other cluster which is run by the same Management.

- 7.4 There shall be Mini Project with Seminar during I year II semester for internal evaluation of 100 marks. The Departmental Academic Committee (DAC) will review the progress of the mini project during the seminar presentations and evaluate the same for 50 marks. Mini Project Viva Voce will be evaluated by the DAC for another 50 marks before the semester end examinations. Student shall carryout the mini project in consultation with the mini project supervisor which may include critically reviewing the literature, project implementation and submit it to the department in the form of a report and shall make an oral presentation before the DAC consisting of Head of the Department, Mini Project supervisor and two other senior faculty members of the department. The student has to secure a minimum of 50% of marks in i) seminar presentation and ii) mini project viva voce, to be declared successful. If he fails to obtain the minimum marks, he has to reappear for the same as and when scheduled.

- 7.5 Every candidate shall be required to submit a dissertation on a topic approved by the Dissertation Review Committee.

- 7.6 A Dissertation Review Committee (DRC) shall be constituted with the Head of the Department as



Chairperson, Dissertation Supervisor and one senior faculty member of the Department offering the M.Pharm. programme.

- 7.7 Registration of Dissertation Work: A candidate is permitted to register for the Dissertation Work after satisfying the attendance requirement in all the subjects, both theory and laboratory.
- 7.8 After satisfying 7.7, a candidate must present in Dissertation Work Review - I, in consultation with his Dissertation Supervisor, the title, objective and plan of action of his Dissertation work to the Dissertation Review Committee (DRC) for approval within four weeks from the commencement of Second year First Semester. Only after obtaining the approval of the DRC can the student initiate the Dissertation work.
- 7.9 If a candidate wishes to change his supervisor or topic of the Dissertation, he can do so with the approval of the DRC. However, the DRC shall examine whether or not the change of topic/supervisor leads to a major change of his initial plans of Dissertation proposal. If yes, his date of registration for the project work starts from the date of change of Supervisor or topic as the case may be.
- 7.10 A candidate shall submit his Dissertation progress report in two stages at least with a gap of three months between them.
- 7.11 The work on the Dissertation shall be initiated at the beginning of the II year and the duration of the Dissertation is two semesters. A candidate is permitted to submit Dissertation Thesis only after successful completion of all theory and practical courses with the approval of DRC not earlier than 40 weeks from the date of approval of the Dissertation work. For the approval of DRC the candidate shall submit the draft copy of thesis to the Head of the Department and make an oral presentation before the DRC.
- 7.12 The Dissertation Work Review - II in II Year I Sem. carries internal marks of 100. Evaluation should be done by the DRC for 50 marks and the Supervisor will evaluate the work for the other 50 marks. The Supervisor and DRC will examine the Problem Definition, Objectives, Scope of Work, Literature Survey in the same domain and progress of the Dissertation Work. A candidate has to secure a minimum of 50% of marks to be declared successful in Dissertation Work Review - II. If he fails to obtain the minimum required marks, he has to reappear for Dissertation Work Review - II as and when conducted.
- 7.13 The Dissertation Work Review - III in II Year II Sem. carries 100 internal marks. Evaluation should be done by the DRC for 50 marks and the Supervisor will evaluate it for the other 50 marks. The DRC will examine the overall progress of the Dissertation Work and decide whether or not the Dissertation is eligible for final submission. A candidate has to secure a minimum of 50% of marks to be declared successful in Dissertation Work Review - III. If he fails to obtain the required minimum marks, he has to reappear for Dissertation Work Review - III as and when conducted. For Dissertation Evaluation (Viva Voce) in II Year II Sem. there are external marks of 100 and it is evaluated by the external examiner. The candidate has to secure a minimum of 50% marks in Dissertation Evaluation (Viva-Voce) examination.
- 7.14 Dissertation Work Reviews - II and III shall be conducted in phase I (Regular) and Phase II (Supplementary). Phase II will be conducted only for unsuccessful students in Phase I. The unsuccessful students in Dissertation Work Review - II (Phase II) shall reappear for it at the time of Dissertation Work Review - III (Phase I). These students shall reappear for Dissertation Work Review - III in the next academic year at the time of Dissertation Work Review - II only after completion of Dissertation Work Review - II, and then Dissertation Work Review - III follows. The unsuccessful students in Dissertation Work Review - III (Phase II) shall reappear for Dissertation Work Review - III in the next academic year only at the time of Dissertation Work Review - II (Phase I).



- 7.15 After approval from the DRC, a soft copy of the thesis should be submitted for ANTI-PLAGIARISM check and the plagiarism report should be submitted to the University and be included in the final thesis. The Thesis will be accepted for submission, if the similarity index is less than 30%. If the similarity index has more than the required percentage, the student is advised to modify accordingly and re-submit the soft copy of the thesis after one month. The maximum number of re-submissions of thesis after plagiarism check is limited to TWO. The candidate has to register for the Dissertation work and work for two semesters. After three attempts, the admission is liable to be cancelled. The college authorities are advised to make plagiarism check of every soft copy of theses before submissions.
- 7.16 Three copies of the Dissertation Thesis certified by the supervisor shall be submitted to the College/School/Institute, after submission of a research paper related to the Dissertation work in a UGC approved journal. A copy of the submitted research paper shall be attached to thesis.
- 7.17 The thesis shall be adjudicated by an external examiner selected by the University. For this, the Principal of the College/School/Institute shall submit a panel of **three** examiners from among the list of experts in the relevant specialization as submitted by the supervisor concerned and Head of the Department.
- 7.18 If the report of the external examiner is unsatisfactory, the candidate shall revise and resubmit the Thesis. If the report of the examiner is unsatisfactory again, the thesis shall be summarily rejected. Subsequent actions for such dissertations may be considered, only on the specific recommendations of the external examiner and /or Dissertation Review Committee. No further correspondence in this matter will be entertained, if there is no specific recommendation for resubmission.
- 7.19 If the report of the examiner is satisfactory, the Head of the Department shall coordinate and make arrangements for the conduct of Dissertation Viva-Voce examination. The Dissertation Viva-Voce examination shall be conducted by a board consisting of the Supervisor, Head of the Department and the external examiner who adjudicated the Thesis. The candidate has to secure a minimum of 50% of marks in Dissertation Evaluation (Viva-Voce) examination.
- 7.20 If he fails to fulfill the requirements as specified in 7.19, he will reappear for the Dissertation Viva-Voce examination only after three months. In the reappeared examination also, if he fails to fulfill the requirements, he will not be eligible for the award of the degree, unless he is asked to revise and resubmit his Dissertation Work by the board within a specified time period (within **four** years from the date of commencement of his first year first semester).
- 7.21 The Dissertation Viva-Voce External examination marks must be submitted to the University on the day of the examination.
- 7.22 ***For mandatory(audit) courses, a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course. These marks should also be uploaded along with the internal marks of other subjects.***
- 7.23 ***No marks or letter grades shall be allotted for mandatory(audit) courses. Only Pass/Fail shall be indicated in Grade Card.***
- 8.0 Re-Admission/Re-Registration
- 8.1 Re-Admission for Discontinued Student

A student, who has discontinued the M.Pharm. degree programme due to any reason whatsoever, may be considered for 'readmission' into the same degree programme (with the same specialization) with the academic regulations of the batch into which he gets readmitted, with prior permission from the authorities concerned, subject to item 6.6.



- 8.2 If a student is detained in a subject (s) due to shortage of attendance in any semester, he may be permitted to **re-register** for the same subject(s) in the same category (core or elective group) or equivalent subject, if the same subject is not available, as suggested by the Board of Studies of that department, as and when offered in the subsequent semester(s), with the academic regulations of the batch into which he seeks re-registration, with prior permission from the authorities concerned, subject to item 3.2
- 8.3 A candidate shall be given one chance to re-register and attend the classes for a maximum of two subjects, if the internal marks secured by a candidate are less than 50% and failed in those subjects but fulfilled the attendance requirement. A candidate must re-register for failed subjects within four weeks of commencement of the class work and secure the required minimum attendance. In the event of the student taking this chance, his Continuous Internal Evaluation (internal) marks and Semester End Examination marks obtained in the previous attempt stand cancelled.

9.0 Examinations and Assessment - The Grading System

- 9.1 Grades will be awarded to indicate the performance of each student in each Theory Subject, or Lab/Practicals, or Mini Project with Seminar, Dissertation, etc., based on the percentage of marks obtained in CIE + SEE (Continuous Internal Evaluation + Semester End Examination, both taken together) as specified in Item 7 above, and a corresponding Letter Grade shall be given.
- 9.2 As a measure of the student's performance, a 10-point Absolute Grading System using the following Letter Grades (UGC Guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
90% and above ($\geq 90\%$, $\leq 100\%$)	O (Outstanding)	10
Below 90% but not less than 80% ($\geq 80\%$, $< 90\%$)	A ⁺ (Excellent)	9
Below 80% but not less than 70% ($\geq 70\%$, $< 80\%$)	A (Very Good)	8
Below 70% but not less than 60% ($\geq 60\%$, $< 70\%$)	B ⁺ (Good)	7
Below 60% but not less than 50% ($\geq 50\%$, $< 60\%$)	B (above Average)	6
Below 50% ($< 50\%$)	F (FAIL)	0
Absent	Ab	0

- 9.3 A student obtaining F Grade in any Subject is deemed to have 'failed' and is required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted. In such cases, his Internal Marks (CIE Marks) in those subjects will remain as obtained earlier.
- 9.4 If a student has not appeared for the examinations, 'Ab' Grade will be allocated to him for any subject and shall be considered 'failed' and will be required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted.
- 9.5 A Letter Grade does not imply any specific marks percentage; it is only the range of percentage of marks.
- 9.6 In general, a student shall not be permitted to repeat any Subject/ Course (s) only for the sake of 'Grade Improvement' or 'SGPA/ CGPA Improvement'.



- 9.7 A student earns Grade Point (GP) in each Subject/ Course, on the basis of the Letter Grade obtained by him in that Subject/ Course. The corresponding 'Credit Points' (CP) are computed by multiplying the Grade Point with Credits for that particular Subject/ Course.

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

- 9.8 The student passes the Subject/ Course only when he gets GP ≥ 6 (B Grade or above).
- 9.9 The Semester Grade Point Average (SGPA) is calculated by dividing the Sum of Credit Points (ΣCP) secured from ALL Subjects/ Courses registered in a Semester, by the Total Number of Credits registered during that Semester. SGPA is rounded off to TWO Decimal Places. SGPA is thus computed as

$$SGPA = \left\{ \sum_{i=1}^N C_i G_i \right\} / \left\{ \sum_{i=1}^N C_i \right\} \dots \text{For each Semester,}$$

where 'i' is the Subject indicator index (taking into account all Subjects in a Semester), 'N' is the no. of Subjects 'REGISTERED' for the Semester (as specifically required and listed under the Course Structure of the parent Department), C_i is the no. of Credits allotted to the i^{th} Subject, and G_i represents the Grade Points (GP) corresponding to the Letter Grade awarded for that i^{th} Subject.

- 9.10 The Cumulative Grade Point Average (CGPA) is a measure of the overall cumulative performance of a student over all Semesters considered for registration. The CGPA is the ratio of the Total Credit Points secured by a student in ALL registered Courses in ALL Semesters, and the Total Number of Credits registered in ALL the Semesters. CGPA is rounded off to TWO Decimal Places. CGPA is thus computed from the I Year Second Semester onwards, at the end of each Semester, as per the formula

$$CGPA = \left\{ \sum_{i=1}^M C_i G_i \right\} / \left\{ \sum_{i=1}^M C_i \right\} \dots \text{for all S Semesters registered}$$

(ie., upto and inclusive of S Semesters, $S \geq 2$),

where 'M' is the TOTAL no. of Subjects (as specifically required and listed under the Course Structure of the parent Department) the Student has 'REGISTERED' for from the 1st Semester onwards upto and inclusive of the Semester S (obviously $M > N$), 'j' is the Subject indicator index (taking into account all Subjects from 1 to S Semesters), C_j is the no. of Credits allotted to the j^{th} Subject, and G_j represents the Grade Points (GP) corresponding to the Letter Grade awarded for that j^{th} Subject. After registration and completion of I Year I Semester however, the SGPA of that Semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade points	Credit Points
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	O	10	$4 \times 10 = 40$
Course 3	4	B	6	$4 \times 6 = 24$
Course 4	3	B	6	$3 \times 6 = 18$
Course 5	3	A+	9	$3 \times 9 = 27$
Course 6	3	B	6	$3 \times 6 = 18$
	21			159



$$\text{SGPA} = 159/21 = 7.57$$

Illustration of calculation of CGPA

Semester	Credits	SGPA	Credits * SGPA
Semester I	24	7	$24 \times 7 = 168$
Semester II	24	6	$24 \times 6 = 144$
Semester III	24	6.5	$24 \times 6.5 = 156$
Semester IV	24	6	$24 \times 6 = 144$
	96		612

$$\text{CGPA} = 612/96 = 6.37$$

10.0 Award of Degree and Class

- 10.1 If a student who registers for all the specified Subjects/ Courses as listed in the Course Structure, satisfies all the Course Requirements, and passes the examinations prescribed in the entire PG Programme (PGP), and secures the required number of **68 Credits** (with $\text{CGPA} \geq 6.0$), shall be declared to have 'QUALIFIED' for the award of the M.Pharm. Degree in the chosen specialization of Pharmacy that he was admitted into.

10.2 Award of Class

After a student has earned the requirements prescribed for the completion of the programme and is eligible for the award of M.Pharm. Degree, he shall be placed in one of the following three classes based on the CGPA:

Class Awarded	CGPA
First Class with Distinction	≥ 7.75
First Class	$6.75 \leq \text{CGPA} < 7.75$
Second Class	$6.00 \leq \text{CGPA} < 6.75$

A student with final CGPA (at the end of the **PGP**) **< 6.00** shall not be eligible for the Award of Degree.

11.0 Withholding of Results

If the student has not paid the dues, if any, to the University or if any case of indiscipline is pending against him, the result and degree of the student will be withheld and he will not be allowed into the next semester.

12.0 General

- 12.1 **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.
- 12.2 **Credit Point:** It is the product of grade point and number of credits for a course.
- 12.3 Wherever the words "he", "him", "his", occur in the regulations, they shall include "she", "her".
- 12.4 The academic regulation should be read as a whole for the purpose of any interpretation.



- 12.5 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the University is final.
- 12.6 The University may change or amend the academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the University.

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**MALPRACTICES RULES****DISCIPLINARY ACTION FOR IMPROPER CONDUCT IN EXAMINATIONS**

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



	answer book or additional sheet, during or after the examination.	appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the Chief Superintendent/Assistant – Superintendent/ any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in- charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	Incase of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the



		remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat.
9.	If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the University for further action to award suitable punishment.	

Malpractices identified by squad or special invigilators

1. Punishments to the candidates as per the above guidelines.
2. Punishment for institutions: (if the squad reports that the college is also involved in encouraging malpractices)
 - (i) A show cause notice shall be issued to the college.
 - (ii) Impose a suitable fine on the college.
 - (iii) Shifting the examination centre from the college to another college for a specific period of not less than one year

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Govt. Act No. 30 of 2008)

Kukatpally, Hyderabad – 500085, Telangana, India

Dr. M. Manzoor Hussain

M.Tech., Ph.D.,

**Professor of Mechanical Engineering &
REGISTRAR**

Lr. No. A1/Academic Calendar/ I Year UG /2020-21/2020

Date: 24.11.2020

To

All the Principals of Constituent and Affiliated Colleges of JNTUH.

Sir/Madam,

Sub: JNT University Hyderabad – Directorate of Academic & Planning – Academic Year 2020-21 - Academic Calendar and conduct of classes for B.Tech./B.Pharm., I Year course in all Constituent & Affiliated Colleges of JNTUH- Regarding.

Ref: 1 Government Memo No.1676/MC/2020, Higher Education (MC) Dept., Dt. 25.08.2020.

2 CTE File No. CTE-ACD1/GPTs/9/2020-ACADEMIC-I Dt. 25.08.2020.

3 Lr. No. TSCHE/UM-651/ Commencement of online classes/2020-21, Dt. 25.08.2020

**

The Principals / Directors of Constituent and Affiliated College of JNTUH are informed to conduct B.Tech. / B.Pharm I Year I Semester class work (online) from 01.12.2020.

In the ref. 1st cited, Government has permitted as part of e-learning and distance education, online classes on various digital/TV/T-SAT platforms for UG/PG Professional courses from 1st September 2020 in all Professional Colleges.

It is requested to maintain the record of attendance particulars, classes handled, time tables and the same information (month-wise) may be send to dap@jntuh.ac.in. The classes shall be conducted in online mode for 3 to 4 hours per day and based on situation classes may be conducted in blended mode following the prescribed protocols/guidelines related to COVID-19. The Orientation / Induction Programs are to be conducted for all B.Tech. / B.Pharm I Year I Semester students as per UGC /AICTE guidelines. Atmost care and guidance may be given to first year students about Academic Regulations, Attendance, Promotion Guidelines, Credit System, Anti-Ragging information etc.

The Academic Calendar 2020-21 for B.Tech./ B.Pharm. I Year -I & II Semesters for all Constituent & Affiliated Colleges of JNTUH is enclosed. It is informed to make recording of online

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presentations, regular attendance and day-wise schedule for submission to the University as and when required.

The Principals of all Constituent and Affiliated Colleges are requested to take necessary action.

Yours sincerely,


27/11/2020
REGISTRAR

Copy to the DE/PA to Rector/ PA to Vice-Chancellor, JNTUH, Hyderabad.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
ACADEMIC CALENDAR 2020-21

For All Constituent & Affiliated Colleges of JNTUH

B. Tech./B.Pharm. I Year I & II Semesters

(Online Classes)

B. Tech./B.Pharm. I Year - I Semester

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork / Orientation Programme		01.12.2020
2	1 st Spell of Instructions	01.12.2020	23.01.2021 (8 Weeks)
3	First Mid Term Examinations	25.01.2021	30.01.2021 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		06.02.2021
5	Parent-Teacher Meeting		12.02.2021
6	2 nd Spell of Instructions	01.02.2021	27.03.2021 (8 Weeks)
7	Second Mid Term Examinations (including public holidays)	29.03.2021	06.04.2021 (1 Week)
8	Preparation Holidays and Practical Examinations	07.04.2021	12.04.2021 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		12.04.2021
10	End Semester Examinations	15.04.2021	29.04.2021 (2 Weeks)

B. Tech./ B.Pharm. I Year - II Semester

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		30.04.2021
2	1 st Spell of Instructions	30.04.2021	24.06.2021 (8 Weeks)
3	First Mid Term Examinations	25.06.2021	30.06.2021 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		05.07.2021
5	Parent-Teacher Meeting		09.07.2021
6	2 nd Spell of Instructions	01.07.2021	25.08.2021 (8 Weeks)
7	Second Mid Term Examinations	26.08.2021	01.09.2021 (1 Week)
8	Preparation Holidays and Practical Examinations	02.09.2021	08.09.2021 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		08.09.2021
10	End Semester Examinations	09.09.2021	22.09.2021 (2 Weeks)

Note: All the laboratory courses shall be conducted once normalcy is restored.


 REGISTRAR
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 Bharat Institute of Technology
 Mangalpally (V), Ibrahimpetnam (M),
 R.R. Dist - 501 510, Telangana.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**REVISED ACADEMIC CALENDAR 2020-21****For All Constituent & Affiliated Colleges of JNTUH****B. Tech./B.Pharm. II, III & IV Years I & II Semesters****B. Tech./B.Pharm. II, III & IV Years - I Semester**

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	01.09.2020	
2	1 st Spell of Instructions (including Dussehra Recess)	01.09.2020	31.10.2020 (9 Weeks)
3	Dussehra Recess	19.10.2020	24.10.2020
4	End Examinations preparation holidays - Previous Semesters	02.11.2020	04.11.2020 (3 days)
5	2 nd Spell of Instructions (including First Mid Term Examinations)	14.12.2020	13.02.2021 (9 Weeks)
6	First Mid Term Examinations	21.12.2020	28.12.2020 (1 Week)
7	Submission of First Mid Term Exam Marks to the University on or before	04.01.2021	
8	Second Mid Term Examinations	15.02.2021	20.02.2021 (1 Week)
9	Practical classes	22.02.2021	27.02.2021 (1 Week)
10	Preparation Holidays and Practical Examinations	01.03.2021	06.03.2021 (1 Week)
11	Submission of Second Mid Term Exam Marks to the University on or before	27.02.2021	
12	End Semester Examinations	08.03.2021	20.03.2021 (2 Weeks)

B. Tech./ B.Pharm. II, III & IV Years - II Semester

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	22.03.2021	
2	1 st Spell of Instructions	22.03.2021	15.05.2021 (8 Weeks)
3	Summer Vacation	17.05.2021	29.05.2021 (2 Weeks)
4	First Mid Term Examinations	31.05.2021	05.06.2021 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	11.06.2021	
6	2 nd Spell of Instructions	07.06.2021	31.07.2021 (8 Weeks)
7	Second Mid Term Examinations	02.08.2021	07.08.2021 (1 Week)
8	Preparation Holidays and Practical Examinations	09.08.2021	14.08.2021 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	14.08.2021	
10	End Semester Examinations	16.08.2021	28.08.2021 (2 Weeks)

Note: 1 All the laboratory courses shall be conducted once normalcy is restored.

2 Regular End Semester Examinations of previous Semester (including lab exams) as per the data received from the Examination branch: 05.11.2020 to 11.12.2020.

Sd/- xxxxxx
DIRECTOR, ACADEMIC & PLANNING

Principal
Mangalagiri, IVL, JNTUH, Hyderabad (M)
A.P. 505 002, Telangana.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Academic Calendar 2020-21

Pharm. D (Regular) and Pharm.D (PB) I Year

Pharm. D (Regular) and Pharm.D (PB) I Year

S. No	Description	Duration	
		From	To
1	Commencement of classwork / Induction Programme	16.12.2020	
2	1 st Spell of Instructions (including Dussehra Recess, previous year End Examinations)	16.12.2020	06.03.2021 (12 Weeks)
3	First Mid Term Examinations	08.03.2021	13.03.2021 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	20.03.2021	
5	2 nd Spell of Instructions	15.03.2021	05.06.2021 (12 Weeks)
6	Second Mid Term Examinations	07.06.2021	12.06.2021 (1 Week)
7	Submission of Second Mid Term Exam Marks to the University on or before	19.06.2021	
8	3 rd Spell of Instructions (including Summer vacation)	14.06.2021	04.09.2021 (12 Weeks)
9	Third Mid Term Examinations	06.09.2021	11.09.2021 (1 Week)
10	Preparation Holidays and Practical Examinations	13.09.2021	25.09.2021 (2 Weeks)
11	Submission of Third Mid Term Exam Marks to the University on or before	25.09.2021	
12	End / Supplementary Examinations	27.09.2021	09.10.2021 (2 Weeks)

Note: All the laboratory courses shall be conducted once normalcy is restored.

Sd/- xxxx
Director, Academic & Planning

PRINCIPAL
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R.R. Dist - 501 510, Telangana.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Revised Academic Calendar 2020-21

Pharm. D (Regular) II, III, IV, V, VI Years and Pharm.D (PB) II, III Years

Pharm. D (Regular) II, III, IV, V Year and Pharm.D (PB) II Year

S. No	Description	Duration	
		From	To
1	Commencement of classwork		01.09.2020
2	1 st Spell of Instructions (including Dussehra Recess, previous year End Examinations)	01.09.2020	12.12.2020 (15 Weeks)
3	Dussehra Recess	19.10.2020	24.10.2020 (1 Week)
4	First Mid Term Examinations	14.12.2020	19.12.2020 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		28.12.2020
6	2 nd Spell of Instructions	21.12.2020	20.03.2021 (13 Weeks)
7	Second Mid Term Examinations	22.03.2021	27.03.2021 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		03.04.2021
9	3 rd Spell of Instructions (including Summer vacation)	30.03.2021	28.06.2021 (13 Weeks)
10	Summer vacation	17.05.2021	29.05.2021 (2 Weeks)
11	Third Mid Term Examinations	29.06.2021	03.07.2021 (1 Week)
12	Preparation Holidays and Practical Examinations	05.07.2021	17.07.2021 (2 Weeks)
13	Submission of Third Mid Term Exam Marks to the University on or before		17.07.2021
14	End / Supplementary Examinations	19.07.2021	31.07.2021 (2 Weeks)

Pharm. D (Regular) VI Year and Pharm.D (PB) III Year

S. No	Description	Duration	
		From	To
1	Commencement of internship in General ward	01.09.2020	27.02.2021 (6 Months)
2	Report submission of internship in General ward		01.03.2021
3	Commencement of internship in Specialty ward-1	02.03.2021	01.05.2021 (2 Months)
4	Report submission of internship in Specialty ward-1		03.05.2021
5	Commencement of internship in Specialty ward-2	04.05.2021	03.07.2021 (2 Months)
6	Report submission of internship in Specialty ward-2		05.07.2021
7	Commencement of internship in Specialty ward-3	06.07.2021	04.09.2021 (2 Months)
8	Report submission of internship in Specialty ward-3		06.09.2021
9	Final viva of internship		08.09.2021

Note: 1 All the laboratory courses shall be conducted once normalcy is restored.

2 Regular End Examinations of previous year (including lab exams) as per the data received from the Examination branch: 12.10.2020, 27.10.2020, 31.10.2020, 04.11.2020 to 16.11.2020.

Sd/- xxxxxx

DIRECTOR, ACADEMIC & PLANNING

Bharat Institute of Technology
Mangalpally (V), Ibrahimpatnam (M),
R.R. Dist - 501 510, Telangana.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**Academic Calendar (2020-21)****For All Constituent & Affiliated Colleges of JNTUH****M.Tech. / M.Pharm. I Year - I & II Semesters****M.Tech./ M. Pharm. I Year - I Semester**

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork / Induction Programme	16.12.2020	
2	1 st Spell of Instructions	16.12.2020	06.02.2021 (8 Weeks)
3	First Mid Term Examinations	08.02.2021	13.02.2021 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	20.02.2021	
5	2 nd Spell of Instructions	15.02.2021	10.04.2021 (8 Weeks)
6	Second Mid Term Examinations	12.04.2021	17.04.2021 (1 Week)
7	Practical classes	19.04.2021	24.04.2021 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	24.04.2021	
9	Preparation Holidays and Practical Examinations	26.04.2021	01.05.2021 (1 Week)
10	End Semester Examinations	03.05.2021	15.05.2021 (2 Weeks)

M.Tech./ M.Pharm. I Year - II Semester

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	17.05.2021	
2	1 st Spell of Instructions	17.05.2021	10.07.2021 (8 Weeks)
3	First Mid Term Examinations	12.07.2021	17.07.2021 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	24.07.2021	
5	2 nd Spell of Instructions	19.07.2021	11.09.2021 (8 Weeks)
6	Second Mid Term Examinations	13.09.2021	18.09.2021 (1 Week)
7	Preparation Holidays and Practical Examinations	20.09.2021	25.09.2021 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	25.09.2021	
9	End Semester Examinations	27.09.2021	09.10.2021 (2 Weeks)

Note: All the laboratory courses shall be conducted once normalcy is restored.

Sd/- xxxx

Director, Academic & Planning

PRINCIPAL
Bharat Institute of Technology
Mangalpally (V), Ibrahimpatnam (M),
R.R. Dist - 501 510, Telangana.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Revised Academic Calendar (2020-21)

For All Constituent & Affiliated Colleges of JNTUH

M.Tech. / M.Pharm. II Year - I & II Semesters

M.Tech./ M. Pharm. II Year - I Semester

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	01.09.2020	
2	1 st Spell of Instructions (including Dussehra Recess, previous Semester End Examinations)	01.09.2020	16.11.2020 (11 Weeks)
3	Dussehra Recess	19.10.2020	24.10.2020 (1 Week)
4	Preparation of Project Work Proposals	01.09.2020	28.09.2020 (4 Weeks)
5	Project Work Review-I: Project approval (Part-I commencement)	29.09.2020	03.10.2020
6	Last date for submission of list of approved PRC-I students from the College to the University Examination branch.	06.10.2020	
7	2 nd Spell of Instructions (including First Mid Term Exams)	17.11.2020	19.01.2021 (9 Weeks)
8	First Mid Term Examinations	14.12.2020	19.12.2020 (1 Week)
9	Submission of First Mid Term Exam Marks to the University on or before	28.12.2020	
10	Second Mid Term Examinations	20.01.2021	25.01.2021 (1 Week)
11	Preparation Holidays	27.01.2021	30.01.2021
12	Submission of Second Mid Term Exam Marks to the University on or before	30.01.2021	
13	End Semester Examinations	01.02.2021	13.02.2021 (2 Weeks)

M.Tech./ M.Pharm. II Year - II Semester

S. No	Description	Duration	
		From	To
1	Commencement of II Semester (Project Work Continuation) (5.10.2020 to 15.02.2021 - 4 Months - Excluding Previous Semesters Examinations)	15.02.2021	
2	Project Work Review -II (Phase-I)	15.02.2021	17.02.2021
3	** Project Work Review -II(Phase-II)	01.03.2021	03.03.2021
4	Last date for submission of PRC-II marks	06.03.2021	
5	Project Work Review -III (Phase -I)	12.07.2021	17.07.2021
6	Last date for submission of Project Work Review-III (Phase-I) Marks	24.07.2021	
7	* Date of eligibility of thesis submission	24.07.2021	
8	Submission of Thesis and Project Viva - Voce Examination (PRC-III Phase-I) follows	--	

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9	** Project Work Review – III (Phase –II)	12.10.2021	16.10.2021
10	Last date for submission of Project Work Review –III (Phase-II) Marks	18.10.2021	
11	Submission of Thesis and Project Viva – Voce Examination (Phase-II) follows	---	

* After completion of 40 weeks from the date of approval of project work proposal and subject to approval of Project Work Review-III.

** Phase-II will be conducted only for unsuccessful students in Phase –I

Note: 1 The unsuccessful students in Project Work Review-II (Phase-II) shall appear for Project Work Review-II at the time of Project Work Review-III. These students shall reappear for Project Work Review-III in the next academic year at the time of Project Work Review -II only after completion of Project Work Review -II, and then Project Work Review -III follows.

2 The unsuccessful students in Project Work Review -III (Phase-II) shall reappear for Project Work Review -III in the next academic year at the time of Project Work Review –II only.

3 The Project Viva-Voce External examination Marks must be submitted on the day of examination to the University.

4. Regular End Semester Examinations of previous Semester (including lab exams) as per the data received from the Examination branch: 12.10.2020, 31.10.2020, 03.11.2020, 05.11.2020 to 16.11.2020.

Sd/- xxxxxx

DIRECTOR, ACADEMIC & PLANNING

PRINCIPAL
Ch S. S. S.
Bharat Institute of Technology
 Mangalpally (V), Ibrahimpatn
 R.R. Dist - 501 510, Telangana

PROJECT TITLE LIST

Pharm D 5th yr BIT

Batch no	Name and roll no	College Guide	Hospital guide	Topic title
1	Rupa-16171T0015 Amulya-16171T0018 Vaishnavi-16171T0017 Pooja-16171T0005	Dr. Ascharya chinthalapati	Dr. Mounika Boppana	Single centre observational study to evaluate the incidence, severity, risk factors and efficacy of pharmacotherapy in management of taxane induced myalgia and arthralgias
2	Iaharika-16171T0002 saisree-16171T0004 srija-16171T0012 keerthi-16171T0016	Dr. Arifa Begum	Dr. sethu babu	Patterns of sedation/anaesthesia gastrointestinal endoscopy practices in output setup
3	Shehenaaz-16171T0003 Kulsoom-16171T0011 Sukaina-16171T0009 Qamar-16171T0020	Dr. Marina d'souza	Dr sarath Chandra mouli veeravalli Dr Shree Harsha	Evaluation of clinical profile, assessment of disease severity and treatment efficacy in spondyloarthritis patient.
4	Induja-16171T0013 Indrani-16171T0019 Manju-16171T0001 Chiatanya-16171T0007	Dr. Shibnath kamila	Dr. Diwakar naidu	Comparison study of blood pressure in dialysis patients with and without RAAS inhibitors
5	Harshini-16171T0014 Maniramy-16171T0010 Archana-16171T0008			

PROJECT TITLE LIST

Pharm D 5th yr BIT

6	Akhil -16171T0021 Naveen-16171T0026 Najam-15171T0023	Dr . Kezia sam	Dr mohammed sadiq azam Dr p gautam	Spectrum of use of ivabardinies in patient admitted with acute cardiac conditions
8	Venu-16171T0028 Junaid-16171T0022 Pranav-16171T0024	Ramya sree	Dr jayasree	A study of assessment on monotherapy vs polytherapy vs combination therapy with botax in the management of chronic migraine
9	Aisha Ahmed - 19175T0001 Rukhaiya Asma - 19175T0002 Nandigama . sheeba Rani - 19175T0003 Azra Fathima - 19175T0004	Dr vijaya vani	Dr manas panighari Dr y.B.v.k chandrashekar	Outcome of high grade glioma patients at tertiary care centre

B.PHARM- PROJECT TITLE LIST '2021:

BATCH.NO	Roll Number	Guide Name	Project Title
1.	14171R0005	T. Beulah	Formulation and Evaluation of Docetaxel floating mucoadhesive microspheres
	17171R0001		
	17171R0002		
	17171R0003		
2.	17171R0004	Dr. Arifa Begum SK.	Insights on potential drug candidates against COVID 19 using Autodock Vina
	14171R0025		
	17171R0006		
	17171R0007		
3.	17171R0008	Dr. Vijaya Vani	Formulation Development and invitro Evaluation of Mometasone Emulgels
	17171R0009		
	16171R0036		
	17171R0010		
4.	17171R0011	Mrs. Haritha	Formulation and invitro Evaluation of frovatriptan fast dissolving tablets
	17171R0012		
	17171R0013		
	16171R0052		
5.	17171R0014	Mrs. Sangeetha	Synthesis and Evaluation of new Indole derivatives for antimicrobial activity
	17171R0015		
	17171R0016		
	17171R0017		
6.	16171R0057	Mrs. Namratha	Biological approach for synthesis of silver nano particles from citrullus lanatus and thespesiapopulnea seeds and its pharmaceutical application
	17171R0018		
	17171R0019		
	17171R0020		
7.	17171R0021	Dr. Sreedevi	Development and Validation of RP-HPLC method for the estimation of Iloperidone in Bulk and Tablet Dosage form
	17171R0022		
	17171R0023		
	17171R0024		
	17171R0025		
	17171R0026		
	17171R0027		
	17171R0028		
	17171R0029		

	17171R0030 17171R0031		
8.	17171R0032 17171R0033 17171R0034 17171R0035	Je Rachel Nivedita	Formulation Development and invitro Evaluation of Doxorubicin sustained release palonosertan ir release bilayer Tablets
9.	17171R0036 17171R0037 17171R0038 17171R0039	Ms. Pushpa Twila	A Study on Thyroid Dysfunction in Patients with type-2 Diabetes -A prospective study
10.	17171R0040 17171R0041 17171R0042 17171R0043	Dr. P. Ramyasree	Formulation and Evaluation of floating microsphere loaded with capacetabine
11.	17171R0044 17171R0045 17171R0046 17171R0047	Dr. Marina Desouza	Marketing survey on Antidiabetic drugs, it's utility by Local area of Nagarkumool
12.	17171R0048 17171R0049 17171R0050 17171R0051	Mrs. Kabita Banik	Formulation Development and invitro evaluation of duloxetine transdermal patch
13.	17171R0052 17171R0053 17171R0054 17171R0055	Dr. Bhanu Prakash Arakareddy	Formulation and Evaluation of risperidone transdermal patches
14.	17171R0056 17171R0057 17171R0059 17171R0061	Dr. Sibnath Kamila	Formulation and Evaluation of transferozomal gels (leftunomide).
15.	17171R0062 17171R0063 17171R0064 17171R0065	Dr. Ch. Ascharya	Formulation and invitro Evaluation of Topical Antifungal Gel- Miconazole

16.	17171R0066	Dr. Shital Patel	Comparison of Quality Control test of different brands containing Active Pharmaceutical Ingredient.
	17171R0067		
	17171R0068		
	17171R0069		
17.	17171R0070	Mrs. Usharani	Insilico Molecular docking studies of new isatin derivatives as antibacterial agents.
	17171R0071		
	17171R0072		
	17171R0073		
18.	17171R0074	Dr. Kezia	An Evaluation of Mental Health status during the COVID pandemic
	17171R0075		
	17171R0076		
	17171R0077		
19.	17171R0078	Dr. Mirimay Das	A Study on Benzimidazole derivatives and their various Pharmacological Effects
	17171R0079		
	17171R0080		
	16171R0076		


 Bharath Institute of Advanced Technology
 Mangalagiri (V), Ibrahimpatnam (M),
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BHARAT INSTITUTE OF TECHNOLOGY (BIT)

Approved by AICTE, Pharmacy Council of India and Affiliated to JNTUH.
Sponsored by: CHINTA REDDY MADHUSUDHAN REDDY EDUCATIONAL SOCIETY
Mangalpally (Village), Ibrahimpatnam (Mandal), Ranga Reddy District - 501510
Accredited by NAAC

EAMCET CODE : BITL

HOME	ABOUT US	ACADEMICS	ADMISSIONS	FACILITIES	R & D	ACTIVITIES	GALLERY	GRIEVANCE	CONTACT US	CAREER	ACCREDITATION	IQAC (AQAR)
Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination*	Date of declaration of results of semester-end/ year- end examination								
M. Pharm	MPH	Semesterr	31/10/2020	9/1/2021								
B. Pharm	BPH	Semesterr	2/11/2020	29/01/2021								
Pharm D/ and Pharm D/PB	PD/ and PD-PB	Year	1/10/2020	18/02/2021								


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

ACADEMIC REGULATIONS OF B.PHARM. (REGULAR/FULL TIME) STUDENTS
WITH EFFECT FROM THE ACADEMIC YEAR 2017-18 (R-17)

1.0 Under-Graduate Degree Programme in Pharmacy

1.1 JNTUH offers a 4-year (8 semesters) **Bachelor of Pharmacy (B.Pharm.)** degree programme, under Choice Based Credit System (CBCS) at its affiliated colleges with effect from the academic year 2017-18.

2.0 Eligibility for admission

2.1 Admission to the under graduate programme shall be made either on the basis of the merit rank obtained by the qualified candidate in entrance test conducted by the Telangana State Government (EAMCET) or the University or on the basis of any other order of merit approved by the University, subject to reservations as prescribed by the government from time to time.

2.2 The medium of instructions for the entire under graduate programme in Pharmacy will be **English only**.

3.0 B.Pharm. Programme structure

3.1 A student after securing admission shall pursue the under graduate programme in B.Pharm. in a minimum period of **four** academic years (8 semesters), and a maximum period of **eight** academic years (16 semesters) starting from the date of commencement of first year first semester, failing which student shall forfeit seat in B.Pharm course.

A student shall register for all subjects for covering 196 credits and each student shall secure 196 credits (with CGPA ≥ 5) required for the completion of the under graduate programme and award of the B.Pharm. degree.

3.2 **UGC/ AICTE** specified definitions/ descriptions are adopted appropriately for various terms and abbreviations used in these academic regulations/ norms, which are listed below.

3.2.1 Semester scheme

Each under graduate programme is of 4 academic years (8 semesters) with the academic year being divided into two semesters of 22 weeks (≥ 90 instructional days) each, each semester shall have - 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester

System (CBSS) as indicated by UGC and curriculum / course structure as suggested by AICTE are followed.

3.2.2 Credit courses

All subjects/ courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/ course in an L: T: P: C (lecture periods: tutorial periods: practical periods: credits) structure based on the following general pattern.

- One credit for one hour/ week/ semester for theory/ lecture (L) courses.
- One credit for two hours/ week/ semester for laboratory/ practical (P) courses or tutorials (T).

Courses like environmental science, human values and professional ethics, gender sensitization lab and other student activities like NCC/NSO and NSS are identified as mandatory courses. These courses will not carry any credits.

3.2.3 Subject Course Classification

All subjects/ courses offered for the under graduate programme in Pharmacy (B.Pharm. degree programmes) are broadly classified as follows. The university has followed almost all the guidelines issued by AICTE/UGC.

S. No.	Broad Course Classification	Course Group/ Category	Course Description
1	Foundation Courses (FnC)	BS – Basic Sciences	Includes mathematics, physics and chemistry subjects.
2		PS - Pharmaceutical Sciences	Includes fundamental Pharmacy Subjects.
3		HS – Humanities and Social sciences	Includes subjects related to humanities, social sciences and management.
4	Core Courses (CoC)	PC – Professional Core	Includes core subjects related to the parent discipline.
5	Elective Courses (ElC)	OE – Open Electives	Includes elective subjects related to inter-disciplinary areas of Pharmacy or other than Pharmacy
6	Core Courses	Project Work	B.Pharm. project or UG project or UG major project
7		Seminar	Seminar/ Colloquium based on core contents related to parent discipline.
10	Minor courses	-	1 or 2 Credit courses (subset of HS)
11	Mandatory Courses (MC)	-	Mandatory courses (non-credit)

4.0 Course registration

- 4.1 A 'faculty advisor or counselor' shall be assigned to a group of 15 students, who will advise student about the under graduate programme, its course structure and curriculum, choice/option for subjects/ courses, based on their competence, progress, pre-requisites and interest.
- 4.2 The academic section of the college invites 'registration forms' from students before the beginning of the semester through 'on-line registration', ensuring 'date and time stamping'. The on-line registration requests for any 'current semester' shall be **completed before the commencement of semester end examinations of the 'preceding semester'**.
- 4.3 A student can apply for **on-line** registration, **only after** obtaining the 'written approval' from faculty advisor/counselor, which should be submitted to the college academic section through the Head of the Department. A copy of it shall be retained with Head of the Department, faculty advisor/ counselor and the student.
- 4.4 If the student submits ambiguous choices or multiple options or erroneous entries during **on-line** registration for the subject(s) / course(s) under a given/ specified course group/ category as listed in the course structure, only the first mentioned subject/ course in that category will be taken into consideration.
- 4.5 Subject/ course options exercised through **on-line** registration are final and cannot be changed or inter-changed; further, alternate choices also will not be considered. However, if the subject/ course that has already been listed for registration by the Head of the Department in a semester could not be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to have alternate choice either for a new subject (subject to offering of such a subject), or for another existing subject (subject to availability of seats). Such alternate arrangements will be made by the Head of the Department, with due notification and time-framed schedule, within the **first week** after the commencement of class-work for that semester.
- 4.6 **Open Electives:** Students have to choose one open elective (OE-I) in II year II semester, one (OE-II) in III year I semester, and one (OE-III) in III year II semester and one (OE-IV) in IV year II semester from the list of Open Electives.

5.0 Subjects/ courses to be offered

- 5.1 A typical section (or class) strength for each semester shall be 60.
- 5.2 A subject/ course may be offered to the students, **only if** a minimum of 20 students (1/3 of the section strength) opt for it. The maximum strength of a section is limited to 80 (60 + 1/3 of the section strength).
- 5.3 If more entries for registration of a subject come into picture, then the Head of Department concerned shall decide, whether or not to offer such a subject/ course for **two (or multiple) sections**.


PRINCIPAL

6.0 Attendance requirements:

- 6.1 Attendance in all classes (Lectures/Laboratories/Project Work) is compulsory. The minimum required attendance in aggregate of all the subjects/ courses including the attendance of mid-term examination / Laboratory etc. is 75%. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than 75% (excluding attendance in mandatory courses environmental science, human values and professional ethics, gender sensitization Lab, NCC/NSO, NSS and Industrial Training) for that semester.
- 6.2 Condoning of shortage of attendance (between 65% and 75%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each semester shall be granted by the College Academic Committee on genuine and valid grounds, based on the student's representation with supporting evidence.
- 6.3 A stipulated fee shall be payable towards condoning of shortage of attendance.
- 6.4 Shortage of attendance below 65% in aggregate shall in **no case be condoned**.
- 6.5 Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examinations of that semester. They get detained and their registration for that semester shall stand cancelled. They will not be promoted to the next semester. They may seek re-registration for all those subjects registered in that semester in which student was detained, by seeking re-admission into that semester as and when offered; in case if there are any open electives, the same may also be re-registered if offered. However, if those electives are not offered in later semesters, then alternate electives may be chosen from the **same** set of elective subjects offered under that category.
- 6.6 A student fulfilling the attendance requirement in the present semester shall not be eligible for readmission into the same class.

7.0 Academic requirements

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in item no.6.

- 7.1 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course, if student secures not less than 35% marks (26 out of 75 marks) in the semester end examination, and a minimum of 40% of marks in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of letter grades, this implies securing 'C' grade or above in that subject/ course.

7.2 Promotion Rules

S. No.	Promotion	Conditions to be fulfilled
1	First year first semester to first year second semester	Regular course of study of first year first semester.

2	First year second semester to second year first semester	(i) Regular course of study of first year second semester. (ii) Must have secured at least 24 credits out of 48 credits i.e., 50% of credits up to first year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3.	Second year first semester to second year second semester	Regular course of study of second year first semester.
4	Second year second semester to third year first semester	(i) Regular course of study of second year second semester. (ii) Must have secured at least 58 credits out of 96 credits i.e., 60% of credits up to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	Third year first semester to third year second semester	Regular course of study of third year first semester.
6	Third year second semester to fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 86 credits out of 144 credits i.e., 60% of credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
7	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

7.3 A student shall register for all subjects covering 196 credits as specified and listed in the course structure, fulfills all the attendance and academic requirements for 196 credits, 'earn all 196 credits' by securing SGPA ≥ 5.0 (in each semester) and CGPA (at the end of each successive semester) ≥ 5.0 to successfully complete the under graduate programme.

7.4 After securing the necessary 196 credits as specified for the successful completion of the entire under graduate programme, the student can avail exemption of two subjects up to 6 credits, that is, two open elective subjects for optional drop out from these 196 credits earned; resulting in 190 credits for under graduate programme performance evaluation, i.e., the performance of the student in these 190 credits shall alone be taken into account for the calculation of 'the final CGPA (at the end of under graduate programme, which takes the SGPA of the IV year II semester into account), and shall be indicated in the

grade card of IV year II semester. However, the performance of student in the earlier individual semesters, with the corresponding SGPA and CGPA for which grade cards have already been given will not be altered.

- 7.5 If a student registers for some more 'extra subjects' other than those listed subjects totaling to 196 credits as specified in the course structure, the performances in those 'extra subjects' (although evaluated and graded using the same procedure as that of the required 196 credits) will not be taken into account while calculating the SGPA and CGPA. For such 'extra subjects' registered, % of marks and letter grade alone will be indicated in the grade card as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations 6 and 7.1 – 7.4 above.
- 7.6 A student eligible to appear in the end semester examination for any subject/ course, but absent from it or failed (thereby failing to secure 'C' grade or above) may reappear for that subject/ course in the supplementary examination as and when conducted. In such cases, CIE assessed earlier for that subject/ course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.
- 7.7 A student **detained in a semester due to shortage of attendance, may be re-admitted when the same semester is offered in the next academic year for fulfillment of academic requirements.** The academic regulations under which student has been readmitted shall be applicable. However, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which student has been detained.
- 7.8 A student **detained due to lack of credits, shall be promoted to the next academic year only after acquiring the required academic credits.** The academic regulations under which student has been readmitted shall be applicable to him.

Note: (1) The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum B grade in all the subjects.

(2) CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters.

8.0 Evaluation - Distribution and Weightage of marks

- 8.1 The performance of a student in every subject/course (including practicals and UG major project) will be evaluated for 100 marks each, with 25 marks allotted for CIE (Continuous Internal Evaluation) and 75 marks for SEE (Semester End-Examination).
- 8.2 For theory subjects, during a semester, there shall be two mid-term examinations. Each mid-term examination consists of one objective paper, one descriptive paper and one assignment. The objective paper and the essay paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for objective and 60 minutes for essay paper). The objective paper is set with 20 bits of multiple choice, fill-in the blanks and matching type of questions for a total of 10 marks. The essay paper shall contain 4 full

questions out of which, the student has to answer 2 questions, each carrying 5 marks. While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus. Five marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first mid-examination, and the second assignment should be submitted before the conduct of the second mid-examination. The total marks secured by the student in each mid-term examination are evaluated for 25 marks, and the average of the two mid-term examinations shall be taken as the final marks secured by each student in internals/sessionals. If any student is absent from any subject of a mid-term examination, an on-line test will be conducted for him by the university. The details of the question paper pattern are as follows,

- The end semester examinations will be conducted for 75 marks consisting of two parts viz. i) **Part- A** for 25 marks, ii) **Part - B** for 50 marks.
- Part-A is compulsory question which consists of ten sub-questions. The first five sub-questions are from each unit and carry 2 marks each. The next five sub-questions are one from each unit and carry 3 marks each.
- Part-B consists of five questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an "either" "or" choice, which means that there will be two questions from each unit and the student should answer either of the two questions.

- 8.3** For practical subjects there shall be a continuous internal evaluation during the semester for 25 sessional marks and 75 semester end examination marks. Out of the 25 marks for internal evaluation, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 10 marks conducted by the laboratory teacher concerned. The semester end examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the clusters of colleges which are decided by the examination branch of the university.
- 8.4** There shall be an Industrial Training in IV year I semester. For the Industrial Training, the student 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 IV year I semester and before the commencement of IV year II semester, the student shall submit satisfactory report of the work and certificate duly signed by the authority of training organization to the head of the institute.
- 8.5 Practice School:** In the IV year I semester, every candidate shall undergo a 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 departmental 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). The report shall be submitted to the departmental committee consisting of Head of the Institution, Head of the Department and a senior faculty member. The practice school report shall be evaluated for 100 marks and grade point shall be awarded.

- 8.6 Out of a total of 100 marks for the UG major project, 25 marks shall be allotted for internal evaluation and 75 marks for the end semester examination (viva voce). The end semester examination of the project work shall be conducted by a committee consisting of external examiner, Head of the Department, supervisor of the project and a senior faculty member. The evaluation of UG major project shall be made at the end of IV year II semester. The internal evaluation shall be on the basis of two seminars given by each student on the topic of UG major project.
- 8.7 The laboratory marks and the sessional marks awarded by the college are subject to scrutiny and scaling by the university wherever necessary. In such cases, the sessional and laboratory marks awarded by the college will be referred to a committee. The committee will arrive at a scaling factor and the marks will be scaled accordingly. The recommendations of the committee are final and binding. The laboratory records and internal test papers shall be preserved in the respective institutions as per the university rules and produced before the committees of the university as and when asked for.
- 8.8 For mandatory courses environmental science, human values and professional ethics, gender sensitization lab and Industrial Training a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course.
- 8.9 For mandatory courses NCC/ NSO and NSS, a 'satisfactory participation certificate' shall be issued to the student from the authorities concerned, only after securing $\geq 65\%$ attendance in such a course.
- 8.10 No marks or letter grade shall be allotted for all mandatory/non-credit courses.
- 9.0 **Grading procedure**
- 9.1 Marks will be awarded to indicate the performance of student in each theory subject, laboratory / practicals and UG major project. Based on the percentage of marks obtained (Continuous Internal Evaluation plus Semester End Examination, both taken together) as specified in item 8 above, a corresponding letter grade shall be given.
- 9.2 As a measure of the performance of student, a 10-point absolute grading system using the following letter grades (as per UGC/AICTE guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10

80 and less than 90%	A ⁺ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B ⁺ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	Ab	0

- 9.3 A student obtaining 'F' grade in any subject shall be deemed to have 'failed' and is required to reappear as a 'supplementary student' in the semester end examination, as and when offered. In such cases, internal marks in those subjects will remain the same as those obtained earlier.
- 9.4 A student who has not appeared for examination in any subject, 'Ab' grade will be allocated in that subject, and student shall be considered 'failed'. Student will be required to reappear as a 'supplementary student' in the semester end examination, as and when offered.
- 9.5 A letter grade does not indicate any specific percentage of marks secured by the student, but it indicates only the range of percentage of marks.
- 9.6 A student earns grade point (GP) in each subject/ course, on the basis of the letter grade secured in that subject/ course. The corresponding 'credit points' (CP) are computed by multiplying the grade point with credits for that particular subject/ course.

Credit points (CP) = grade point (GP) x credits For a course

- 9.7 The student passes the subject/ course only when $GP \geq 5$ ('C' grade or above)
- 9.8 The semester grade point average (SGPA) is calculated by dividing the sum of credit points ($\sum CP$) secured from all subjects/ courses registered in a semester, by the total number of credits registered during that semester. SGPA is rounded off to two decimal places. SGPA is thus computed as

$$SGPA = \{ \sum_{i=1}^N C_i G_i \} / \{ \sum_{i=1}^N C_i \} \dots \text{For each semester,}$$

where 'i' is the subject indicator index (takes into account all subjects in a semester), 'N' is the no. of subjects 'registered' for the semester (as specifically required and listed under the course structure of the parent department), C_i is the no. of credits allotted to the i^{th} subject, and G_i represents the grade points (GP) corresponding to the letter grade awarded for that i^{th} subject.

- 9.9 The cumulative grade point average (CGPA) is a measure of the overall cumulative performance of a student in all semesters considered for registration. The CGPA is the ratio of the total credit points secured by a student in all registered courses in all semesters, and the total number of credits registered in all the semesters. CGPA is rounded off to two decimal places. CGPA is thus computed from the I year II semester onwards at the end of each semester as per the formula

$$CGPA = \{ \sum_{j=1}^M C_j G_j \} / \{ \sum_{j=1}^M C_j \} \dots \text{for all S semesters registered}$$

(i.e., up to and inclusive of S semesters, $S \geq 2$),

where 'M' is the total no. of subjects the student has 'registered' i.e., from the 1st semester onwards up to and inclusive of the 8th semester, 'j' is the subject indicator index (takes into account all subjects from 1 to 8 semesters), C_j is the no. of credits allotted to the j^{th} subject, and G_j represents the grade points (GP) corresponding to the letter grade awarded for that j^{th} subject. After registration and completion of first year first semester, the SGPA of that semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	O	10	$4 \times 10 = 40$
Course 3	4	C	5	$4 \times 5 = 20$
Course 4	3	B	6	$3 \times 6 = 18$
Course 5	3	A+	9	$3 \times 9 = 27$
Course 6	3	C	5	$3 \times 5 = 15$
	Total Credits = 21			Total Credit Points = 152

$$\text{SGPA} = 152/21 = 7.24$$

Illustration of calculation of CGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
I Year I Semester				
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	A+	9	$4 \times 9 = 36$
Course 3	4	B	6	$4 \times 6 = 24$
Course 4	3	O	10	$3 \times 10 = 30$
Course 5	3	B+	7	$3 \times 7 = 21$
Course 6	3	A	8	$3 \times 8 = 24$
I Year II Semester				
Course 7	4	B+	7	$4 \times 7 = 28$
Course 8	4	O	10	$4 \times 10 = 40$
Course 9	4	A	8	$4 \times 8 = 32$
Course 10	3	B	6	$3 \times 6 = 18$
Course 11	3	C	5	$3 \times 5 = 15$
Course 12	3	A+	9	$3 \times 9 = 27$
	Total Credits = 42			Total Credit Points = 327

$$\text{CGPA} = 327/42 = 7.79$$

9.10 For merit ranking or comparison purposes or any other listing, **only the 'rounded off'** values of the CGPAs will be used.

9.11 For calculations listed in regulations 9.6 to 9.9, performance in failed subjects/ courses (securing F grade) will also be taken into account, and the credits of such subjects/ courses will also be included in the multiplications and summations. After passing the failed subject(s) newly secured letter grades will be taken into account for calculation of SGPA and CGPA. However, mandatory courses will not be taken into consideration.

10.0 Passing standards

10.1 A student shall be declared successful or 'passed' in a semester, if student secures a $GP \geq 5$ ('C' grade or above) in every subject/course in that semester (i.e. when student gets an $SGPA \geq 5.00$ at the end of that particular semester); and a student shall be declared successful or 'passed' in the entire under graduate programme, only when gets a $CGPA \geq 5.00$ for the award of the degree as required.

10.2 After the completion of each semester, a grade card or grade sheet (or transcript) shall be issued to all the registered students of that semester, indicating the letter grades and credits earned. It will show the details of the courses registered (course code, title, no. of credits, and grade earned etc.), credits earned, SGPA, and CGPA.

11.0 Declaration of results

11.1 Computation of SGPA and CGPA are done using the procedure listed in 9.6 to 9.9.

11.2 For final percentage of marks equivalent to the computed final CGPA, the following formula may be used.

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

12.0 Award of degree

12.1 A student who registers for all the specified subjects/ courses as listed in the course structure and secures the required number of 196 credits (with $CGPA \geq 5.0$), within 8 academic years from the date of commencement of the first academic year, shall be declared to have '**qualified**' for the award of the B.Pharm. degree.

12.2 A student who qualifies for the award of the degree as listed in item 12.1 shall be placed in the following classes.

12.3 Students with final CGPA (at the end of the under graduate programme) ≥ 8.00 , and fulfilling the following conditions -

- (i) Should have passed all the subjects/courses in '**first appearance**' within the first 4 academic years (or 8 sequential semesters) from the date of commencement of first year first semester.
- (ii) Should have secured a $CGPA \geq 8.00$, at the end of each of the 8 sequential semesters, starting from first year first semester onwards.

- (iii) Should not have been detained or prevented from writing the end semester examinations in any semester due to shortage of attendance or any other reason, shall be placed in '**first class with distinction**'.
- 12.4 Students with final CGPA (at the end of the under graduate programme) ≥ 6.50 but < 8.00 , shall be placed in '**first class**'.
- 12.5 Students with final CGPA (at the end of the under graduate programme) ≥ 5.50 but < 6.50 , shall be placed in '**second class**'.
- 12.6 All other students who qualify for the award of the degree (as per item 12.1), with final CGPA (at the end of the under graduate programme) ≥ 5.00 but < 5.50 , shall be placed in '**pass class**'.
- 12.7 A student with final CGPA (at the end of the under graduate programme) < 5.00 will not be eligible for the award of the degree.
- 12.8 Students fulfilling the conditions listed under item 12.3 alone will be eligible for award of '**university rank**' and '**gold medal**'.
- 13.0 **Withholding of results**
- 13.1 If the student has not paid the fees to the university/ college at any stage, or has dues pending due to any reason whatsoever, or if any case of indiscipline is pending, the result of the student may be withheld, and student will not be allowed to go into the next higher semester. The award or issue of the degree may also be withheld in such cases.
- 14.0 **Transitory regulations**
- A. **For students detained due to shortage of attendance:**
1. A Student who has been detained in I year of R09/R13/R15/R16 Regulations due to lack of attendance, shall be permitted to join I year I Semester of R17 Regulations and he is required to complete the study of B. Pharmacy programme within the stipulated period of eight academic years from the date of first admission in I Year.
 2. A student who has been detained in any semester of II, III and IV years of R09/R13/R15/R16 regulations for want of attendance, shall be permitted to join the corresponding semester of R17 regulations and is required to complete the study of B. Pharmacy within the stipulated period of eight academic years from the date of first admission in I Year. The R17 Academic Regulations under which a student has been readmitted shall be applicable to that student from that semester.
- See rule (C) for further Transitory Regulations.
- B. **For students detained due to shortage of credits:**
3. A student of R09/R13/R15/R16 Regulations who has been detained due to lack of credits, shall be promoted to the next semester of R17 Regulations only after acquiring the required credits as per the corresponding regulations of his/her first admission. The student is required to complete the study of B. Pharmacy within the stipulated period of

eight academic years from the year of first admission. The R17 Academic Regulations are applicable to a student from the year of readmission onwards.

See rule (C) for further Transitory Regulations.

C. For readmitted students in R17 Regulations:

4. A student who has failed in any subject under any regulation has to pass those subjects in the same regulations.
5. The maximum credits that a student acquires for the award of degree, shall be the sum of the total number of credits secured in all the regulations of his/her study including R17 Regulations. The performance evaluation of the student will be done after the exemption of two subjects if total credits acquired are ≤ 206 , three subjects if total credits acquired are > 206 (see R17 Regulations for exemption details).
6. If a student readmitted to R17 Regulations, has any subject with 80% of syllabus common with his/her previous regulations, that particular subject in R17 Regulations will be substituted by another subject to be suggested by the University.

Note: If a student readmitted to R17 Regulations, has not studied any subjects/topics in his/her earlier regulations of study which is prerequisite for further subjects in R17 Regulations, the College Principals concerned shall conduct remedial classes to cover those subjects/topics for the benefit of the students.

15.0 Student transfers

- 15.1 There shall be no branch transfers after the completion of admission process.
- 15.2 There shall be no transfers from one college/stream to another within the constituent colleges and units of Jawaharlal Nehru Technological University Hyderabad.
- 15.3 The students seeking transfer to colleges affiliated to JNTUH from various other Universities/institutions have to pass the failed subjects which are equivalent to the subjects of JNTUH, and also pass the subjects of JNTUH which the students have not studied at the earlier institution. Further, though the students have passed some of the subjects at the earlier institutions, if the same subjects are prescribed in different semesters of JNTUH, the students have to study those subjects in JNTUH in spite of the fact that those subjects are repeated.
- 15.4 The transferred students from other Universities/institutions to JNTUH affiliated colleges who are on rolls to be provide one chance to write the CBT (internal marks) in the **failed subjects and/or subjects not studied** as per the clearance letter issued by the university.
- 15.5 The autonomous affiliated colleges have to provide one chance to write the internal examinations in the **failed subjects and/or subjects not studied**, to the students transferred from other universities/institutions to JNTUH autonomous affiliated colleges who are on rolls, as per the clearance (equivalence) letter issued by the University.

16.0 Scope

- 16.1 The academic regulations should be read as a whole, for the purpose of any interpretation.
- 16.2 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- 16.3 The university may change or amend the academic regulations, course structure or syllabi at any time, and the changes or amendments made shall be applicable to all students with effect from the date notified by the university authorities.



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD (Established by Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

Academic Regulations for B.Pharm. (Lateral Entry Scheme) w.e.f the AY 2018-19

1. Eligibility for award of B. Pharm. Degree (LES)

- The LES students after securing admission shall pursue a course of study for not less than three academic years and not more than six academic years.
2. The student shall register for 147 credits and secure 147 credits with CGPA ≥ 5 from II year to IV year B.Pharm. programme (LES) for the award of B.Pharm. degree. **Out of the 147 credits secured, the student can avail exemption up to 6 credits**, that is, two open elective subjects resulting in 141 credits for B.Pharm programme performance evaluation.
3. The students, who fail to fulfil the requirement for the award of the degree in six academic years from the year of admission, shall forfeit their seat in B.Pharm.
4. The attendance requirements of B. Pharm. (Regular) shall be applicable to B.Pharm. (LES).

5. Promotion rule

S. No	Promotion	Conditions to be fulfilled
1	Second year first semester to second year second semester	Regular course of study of second year first semester.
2	Second year second semester to third year first semester	(i) Regular course of study of second year second semester. (ii) Must have secured at least 29 credits out of 48 credits i.e., 60% of credits up

		to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3	Third year first semester to third year second semester	Regular course of study of third year first semester.
4	Third year second semester to fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 58 credits out of 96 credits i.e., 60% of credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

6. All the other regulations as applicable to B. Pharm. 4-year degree course (Regular) will hold good for B. Pharm. (Lateral Entry Scheme).

MALPRACTICES RULES

DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS

	Nature of Malpractice/Improper conduct	Punishment
	If the student:	
1. (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which student is appearing but has not made use of (material shall include any marks on the body of the student which can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	Gives assistance or guidance or receives it from any other student orally or by any other body language methods or	Expulsion from the examination hall and cancellation of the performance in that subject only of all the students involved. In case of an

	communicates through cell phones with any student or persons in or outside the exam hall in respect of any matter.	outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the student is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The hall ticket of the student is to be cancelled and sent to the university.
3.	Impersonates any other student in connection with the examination.	The student who has impersonated shall be expelled from examination hall. The student is also debarred and forfeits the seat. The performance of the original student who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and UG major project) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.

6.	Refuses to obey the orders of the chief superintendent/assistant superintendent / any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the college campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the student(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The students also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat.
9.	If student of the college, who is not a student for the particular examination or	Student of the colleges expulsion from the examination hall and cancellation of the

	any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat. Person(s) who do not belong to the college will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the student has appeared including practical examinations and UG major project of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the university for further action to award suitable punishment.	

Malpractices identified by squad or special invigilators

1. Punishments to the students as per the above guidelines.
2. Punishment for institutions : (if the squad reports that the college is also involved in encouraging malpractices)
 - a. A show cause notice shall be issued to the college.
 - b. Impose a suitable fine on the college.
 - c. Shifting the examination centre from the college to another college for a specific period of not less than one year.

* * * * *



भारत का राजपत्र The Gazette of India

साप्ताहिक/WEEKLY

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

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No. 19] NEW DELHI, SATURDAY, MAY 10—MAY 16, 2008 (VAISAKHA 20, 1930)

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

भाग III—खण्ड 4

[PART III—SECTION 4]

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

भारतीय रिज़र्व बैंक

मुंबई-400001, दिनांक 9 अप्रैल 2008

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

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

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आनन्द सिन्हा
कार्यपालक निदेशक

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

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

New Delhi, 10th May, 2008.

Pharm.D. Regulations 2008

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

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

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

CHAPTER-I

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

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CHAPTER-II

3. Duration of the course. –

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

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

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

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

Phase I – consisting of First and Second academic year.

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

4. Minimum qualification for admission to. –

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

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

Mathematics or Biology.

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

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

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

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

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

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

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

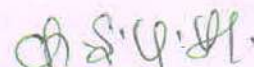
5. Number of admissions in the above said programmes shall be as prescribed by the Pharmacy Council of India from time to time and presently be restricted as below -
 - i) Pharm.D. Programme - 30 students.
 - ii) Pharm.D. (Post Baccalaureate) Programme - 10 students.
6. Institutions running B.Pharm programme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

TABLES

First Year :

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

* For Biology

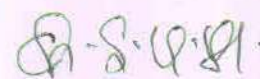

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Second Year:

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

Third Year:

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



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Fourth Year:

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

Fifth Year:

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

* Attending ward rounds on daily basis.


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Sixth Year:

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

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

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

TABLES**First Year examination :**

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

* for Biology.

Second Year examination :

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

Third Year examination :

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

Fourth Year examination :

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

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Fifth Year examination :

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

* Attending ward rounds on daily basis.

** 30 marks – viva-voce (oral)

70 marks – Thesis work

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

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

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

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

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

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

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

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

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

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

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

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CHAPTER-III

Practical training

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

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23. Reporting .— (1) Student working on the project shall submit jointly to the Head of the Department or Head of the Institution a project report of about 40-50 pages. Project report should include a certificate issued by the authorised teacher, Head of the Department as well as by the Head of the Institution

(2) Project report shall be computer typed in double space using Times Roman font on A4 paper. The title shall be in bold with font size 18, sub-titles in bold with font size 14 and the text with font size 12. The cover page of the project report shall contain details about the name of the student and the name of the authorised teacher with font size 14.

(3) Submission of the project report shall be done at least one month prior to the commencement of annual or supplementary examination.

24. Evaluation.— The following methodology shall be adopted for evaluating the project work—

(i) Project work shall be evaluated by internal and external examiners.

(ii) Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of four students).

(iii) Three seminars presented by students shall be evaluated for twenty marks each and the average of best two shall be forwarded to the university with marks of other subjects.


(iv) Evaluation shall be done on the following items:

	Marks
a) Write up of the seminar	(7.5)
b) Presentation of work	(7.5)
c) Communication skills	(7.5)
d) Question and answer skills	(7.5)
Total	(30 marks)

(v) Final evaluation of project work shall be done on the following items:

	Marks
a) Write up of the seminar	(17.5)
b) Presentation of work	(17.5)
c) Communication skills	(17.5)
d) Question and answer skills	(17.5)
Total	(70 marks)

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


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Act No.30 of 2008)

Kukatpally, Hyderabad-500085, Telangana State (India)

**Academic Regulations of M.Pharm. (Regular/Full Time) Programmes, 2019-20 (R19)
(CBCS)**

(Effective for the students admitted into 1 year from the Academic Year 2019-20 and onwards)

- 1.0 **Post-Graduate Degree Programmes in Pharmacy (PGP in Pharmacy)** Jawaharlal Nehru Technological University Hyderabad (JNTUH) offers **Two Years (Four Semesters)** full-time Master of Pharmacy (M.Pharm.) Degree programmes, under Choice Based Credit System (CBCS) at its constituent (non-autonomous) and affiliated colleges in different specializations.
- 2.0 **Eligibility for Admissions**
 - 2.1 Admission to the PGPs shall be made subject to eligibility, qualification and specializations prescribed by the University from time to time, for each specialization under each M.Pharm. programme.
 - 2.2 Admission to the post graduate programme shall be made on the basis of either the merit rank or Percentile obtained by the qualified student in the relevant qualifying GPAT Examination/ the merit rank obtained by the qualified student in an entrance test conducted by Telangana State Government (PGE CET) for M.Pharm. programmes / an entrance test conducted by JNTUH/ on the basis of any other exams approved by the University, subject to reservations as laid down by the Govt. from time to time.
 - 2.3 The medium of instructions for all PG Programmes will be **ENGLISH** only.
- 3.0 **M.Pharm. Programme (PGP in Pharmacy) Structure**
 - 3.1 The M.Pharm. Programmes in Pharmacy of JNTUH are of Semester pattern, with **Four** Semesters, consisting of **Two** academic years, each academic year having **Two** Semesters (First/Odd and Second/Even Semesters). Each Semester shall be of 22 weeks duration (inclusive of Examinations), with a minimum of 90 instructional days per Semester.
 - 3.2 The student shall not take more than four academic years to fulfill all the academic requirements for the award of M.Pharm. degree from the date of commencement of first year first semester, failing which the student shall forfeit the seat in M.Pharm. programme.
 - 3.3 **UGC/AICTE** specified definitions/descriptions are adopted appropriately for various terms and abbreviations used in these PG academic regulations, as listed below:
 - 3.3.1 **Semester Scheme**

Each Semester shall have 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) are taken as 'references' for the present set of Regulations. The terms 'SUBJECT' and 'COURSE' imply the same meaning here and refer to 'Theory Subject', or 'Lab Course', or 'Design/Drawing Subject', or 'Mini Project with Seminar', or 'Dissertation', as the case may be.
 - 3.3.2 **Credit Courses**

All subjects/courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/course in an L: T: P: C (Lecture Periods: Tutorial Periods: Practical Periods: Credits) structure based on the following general pattern:



- One credit for one hour/week/semester for theory/lecture (L) courses
- One credit for two hours/ week/semester for laboratory/ practical (P) courses or tutorials (T)

Other student activities like study tour, guest lecture, conference/workshop participations, technical paper presentations and mandatory courses (**Audit Courses**) will not carry any credits.

3.3.3 Subject Course Classification

All subjects/courses offered for the Post-Graduate Programme in Pharmacy (M.Pharm. Degree Programme) are broadly classified as follows. The University has followed in general the guidelines issued by AICTE/UGC.

S.No.	Broad Course Classification	Course Group/ Category	Course Description
1	Core Courses (CoC)	PC- Professional Core	Includes subjects related to the Specialization in Pharmacy
		Dissertation	M.Pharm. Project or PG Project or Major Project
		Mini Project with Seminar	Seminar based on core contents related to the Specialization in Pharmacy
2	Elective Courses (EiE)	PE - Professional Electives	Includes elective subjects related to the Specialization in Pharmacy
		OE - Open Electives	Elective subjects which include inter-disciplinary subjects or subjects in an area outside the Specialization in Pharmacy
3	Mandatory Courses	—	Non-Credit Audit Courses

4.0 Course Registration

- 4.1 A 'Faculty Advisor or Counselor' shall be assigned to each specialization, who will advise on the Post Graduate Programme (PGP), its Course Structure and Curriculum, Choice/Option for Subjects/ Courses, based on his competence, progress, pre-requisites and interest.
- 4.2 The Academic Section of the College invites 'Registration Forms' from students within 15 days from the commencement of class work through 'ON-LINE SUBMISSIONS', ensuring 'DATE and TIME Stamping'. The ON-LINE Registration Requests for any 'CURRENT SEMESTER' shall be completed BEFORE the commencement of SEEs (Semester End Examinations) of the 'PRECEDING SEMESTER'.
- 4.3 A Student can apply for ON-LINE Registration, ONLY AFTER obtaining the 'WRITTEN APPROVAL' from his Faculty Advisor, which should be submitted to the College Academic Section through the Head of Department (a copy of it being retained with Head of Department, Faculty Advisor and the Student).
- 4.4 If the Student submits ambiguous choices or multiple options or erroneous entries during ON-LINE Registration for the Subject(s) / Course(s) under a given/ specified Course Group/ Category as listed in the Course Structure, only the first mentioned Subject/ Course in that Category will be taken into consideration.
- 4.5 Subject/ Course Options exercised through ON-LINE Registration are final and CANNOT be changed, nor can they be inter-changed; further, alternate choices also will not be considered. However, if the Subject/ Course that has already been listed for Registration by the University in a Semester could not be offered due to unforeseen or unexpected reasons, then the Student will be allowed to have alternate



choice either for a new Subject, if it is offered, or for another existing Subject (subject to availability of seats). Such alternate arrangements will be made by the Head of Department, with due notification and time-framed schedule, within the FIRST WEEK from the commencement of Class-work for that Semester.

5.0 Attendance Requirements

The programmes are offered based on a unit system with each subject being considered a unit. Attendance is calculated separately for each subject.

- 5.1 Attendance in all classes (Lectures/Laboratories) is compulsory. The minimum required attendance in each theory subject (**also mandatory(audit) courses**) including the attendance of mid-term examination / Laboratory etc. is 75%. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. ***This attendance should also be included in the fortnightly upload of attendance to the University. The attendance of mandatory(audit) courses should be uploaded separately to the University.*** A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than 75%.
- 5.2 A student's Seminar report and presentation on Mini Project shall be eligible for evaluation, only if he ensures a minimum of 75% of his attendance in Seminar presentation classes on Mini Project during that Semester.
- 5.3 **Condoning of shortage of attendance** (between 65% and 75%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each subject (Theory/Lab/Mini Project with Seminar) of a semester shall be granted by the College Academic Committee on genuine reasons.
- 5.4 A prescribed fee per subject shall be payable for condoning shortage of attendance after getting the approval of College Academic Committee for the same. The College Academic Committee shall maintain relevant documents along with the request from the student.
- 5.5 Shortage of Attendance below 65% in any subject shall in **no case be condoned**.
- 5.6 A Student, whose shortage of attendance is not condoned in any Subject(s) (Theory/Lab/Mini Project with Seminar) in any Semester, is considered as 'Detained in that Subject(s), and is not eligible to write Semester End Examination(s) of such Subject(s), (in case of Mini Project with Seminar, his/her Mini Project with Seminar Report or Presentation are not eligible for evaluation) in that Semester; and he/she has to seek re-registration for those Subject(s) in subsequent Semesters, and attend the same as and when offered.
- 5.7 A student fulfills the attendance requirement in the present semester, shall not be eligible for readmission into the same class.
- 5.8 a) A student shall put in a minimum required attendance in at least **three theory subjects (excluding mandatory(audit) course)** in first Year I semester for promotion to first Year II Semester.
- b) A student shall put in a minimum required attendance in at least **three theory subjects (excluding mandatory(audit) course)** in first Year II semester for promotion to second Year I Semester.

6.0 Academic Requirements

The following academic requirements must be satisfied, in addition to the attendance requirements mentioned in item no. 5. The performance of the candidate in each semester shall be evaluated subject-



wise, with a maximum of 100 marks per subject / course (theory / practical), based on Internal Evaluation and Semester End Examination.

- 6.1 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/course, if he secures not less than 40% of marks (30 out of 75 marks) in the End Semester Examination, and a minimum of 50% of marks in the sum total of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of Letter Grades and this implies securing 'B' Grade or above in a subject.
- 6.2 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to Mini Project with seminar, if student secures not less than 50% marks (i.e. 50 out of 100 allotted marks). The student would be treated as failed, if student (i) does not submit a seminar report on Mini Project or does not make a presentation of the same before the evaluation committee as per schedule or (ii) secures less than 50% marks in Mini Project with seminar evaluation. The failed student shall reappear for the above evaluation when the notification for supplementary examination is issued.
- 6.3 A student shall register for all subjects for total of 68 credits as specified and listed in the course structure for the chosen specialization, put in required the attendance and fulfill the academic requirements for securing 68 credits obtaining a minimum of 'B' Grade or above in each subject, and all 68 credits securing Semester Grade Point Average (SGPA) ≥ 6.0 (in each semester) and final Cumulative Grade Point Average (CGPA) (i.e., CGPA at the end of PGP) ≥ 6.0 , and shall **pass all the mandatory(audit) courses** to complete the PGP successfully.

Note: (1) The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum B grade in all the subjects.

(2) CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters

- 6.4 Marks and Letter Grades obtained in all those subjects covering the above specified 68 credits alone shall be considered for the calculation of final CGPA, which will be indicated in the Grade Card / Marks Memo of second year second semester.
- 6.5 If a student registers for extra subject(s) (in the parent specialization or other specializations of Pharmacy) other than those listed subjects totaling to 68 credits as specified in the course structure, the performance in extra subject(s) (although evaluated and graded using the same procedure as that of the required 68 credits) will not be considered while calculating the SGPA and CGPA. For such extra subject(s) registered, percentage of marks and Letter Grade alone will be indicated in the Grade Card/Marks Memo, as a performance measure, subject to completion of the attendance and academic requirements as stated in items 5 and 6.1 - 6.3.
- 6.6 When a student is detained due to shortage of attendance in any subject(s) in any semester, no Grade allotment will be made for such subject(s). However, he is eligible for re-registration of such subject(s) in the subsequent semester(s), as and when next offered, with the academic regulations of the batch into which he is re-registered, by paying the prescribed fees per subject. In all these re-registration cases, the student shall have to secure a fresh set of internal marks and Semester End Examination marks for performance evaluation in such subject(s), and SGPA/CGPA calculations.
- 6.7 A student eligible to appear for the Semester End Examination in any subject, but absent from it or failed (failing to secure 'B' Grade or above), may reappear for that subject at the supplementary examination as and when conducted. In such cases, his Internal Marks assessed earlier for that subject will be carried over, and added to the marks secured in the supplementary examination, for



the purpose of evaluating his performance in that subject.

- 6.8 A Student who fails to earn **68** credits as per the specified course structure, and as indicated above, within **four** academic years from the date of commencement of his first year first semester, shall forfeit his seat in M.Pharm. programme and his admission **shall stand cancelled**.

7.0 Evaluation - Distribution and Weightage of Marks

The performance of a student in each semester shall be evaluated subject- wise (irrespective of credits assigned) for a maximum of 100 marks.

- 7.1 For the theory subjects 75 marks shall be awarded for the performance in the Semester End Examination and 25 marks shall be awarded for Continuous Internal Evaluation (CIE). The Continuous Internal Evaluation shall be made based on the average of the marks secured in the two Mid-Term Examinations conducted, first Mid-Term examinations in the middle of the Semester and second Mid-Term examinations during the last week of instruction. Each Mid-Term Examination shall be conducted for a total duration of 120 minutes with Part 'A' as compulsory consisting of 5 questions carrying 2 marks each (10 marks), and Part 'B' with 3 questions to be answered out of 5 questions, each question carrying 5 marks (15 marks). The details of the Question Paper pattern for Semester End Examination (Theory) are given below:

- The Semester End Examination will be conducted for 75 marks. It consists of two parts.
 - i) Part A for 25 marks, ii) Part B for 50 marks.
- Part A is compulsory and consists of 5 questions, one from each unit and carrying 5 marks each.
- Part B consists of 5 questions carrying 10 marks each. There will be two questions from each unit and only one should be answered.

- 7.2 For practical subjects, 75 marks shall be awarded for performance in the Semester End Examinations and 25 marks shall be awarded for day-to-day performance as Internal Marks.

- 7.3 For conducting laboratory end examinations of all PG Programmes, one internal examiner and one external examiner are to be appointed by the Principal of the College and this is to be informed to the Director of Evaluation within two weeks, before commencement of the lab end examinations. The external examiner should be selected from outside the College concerned but within the cluster. No external examiner should be appointed from any other College in the same cluster/any other cluster which is run by the same Management.

- 7.4 There shall be Mini Project with Seminar during I year II semester for internal evaluation of 100 marks. The Departmental Academic Committee (DAC) will review the progress of the mini project during the seminar presentations and evaluate the same for 50 marks. Mini Project Viva Voce will be evaluated by the DAC for another 50 marks before the semester end examinations. Student shall carryout the mini project in consultation with the mini project supervisor which may include critically reviewing the literature, project implementation and submit it to the department in the form of a report and shall make an oral presentation before the DAC consisting of Head of the Department, Mini Project supervisor and two other senior faculty members of the department. The student has to secure a minimum of 50% of marks in i) seminar presentation and ii) mini project viva voce, to be declared successful. If he fails to obtain the minimum marks, he has to reappear for the same as and when scheduled.

- 7.5 Every candidate shall be required to submit a dissertation on a topic approved by the Dissertation Review Committee.

- 7.6 A Dissertation Review Committee (DRC) shall be constituted with the Head of the Department as



Chairperson, Dissertation Supervisor and one senior faculty member of the Department offering the M.Pharm. programme.

- 7.7 Registration of Dissertation Work: A candidate is permitted to register for the Dissertation Work after satisfying the attendance requirement in all the subjects, both theory and laboratory.
- 7.8 After satisfying 7.7, a candidate must present in Dissertation Work Review - I, in consultation with his Dissertation Supervisor, the title, objective and plan of action of his Dissertation work to the Dissertation Review Committee (DRC) for approval within four weeks from the commencement of Second year First Semester. Only after obtaining the approval of the DRC can the student initiate the Dissertation work.
- 7.9 If a candidate wishes to change his supervisor or topic of the Dissertation, he can do so with the approval of the DRC. However, the DRC shall examine whether or not the change of topic/supervisor leads to a major change of his initial plans of Dissertation proposal. If yes, his date of registration for the project work starts from the date of change of Supervisor or topic as the case may be.
- 7.10 A candidate shall submit his Dissertation progress report in two stages at least with a gap of three months between them.
- 7.11 The work on the Dissertation shall be initiated at the beginning of the II year and the duration of the Dissertation is two semesters. A candidate is permitted to submit Dissertation Thesis only after successful completion of all theory and practical courses with the approval of DRC not earlier than 40 weeks from the date of approval of the Dissertation work. For the approval of DRC the candidate shall submit the draft copy of thesis to the Head of the Department and make an oral presentation before the DRC.
- 7.12 The Dissertation Work Review - II in II Year I Sem. carries internal marks of 100. Evaluation should be done by the DRC for 50 marks and the Supervisor will evaluate the work for the other 50 marks. The Supervisor and DRC will examine the Problem Definition, Objectives, Scope of Work, Literature Survey in the same domain and progress of the Dissertation Work. A candidate has to secure a minimum of 50% of marks to be declared successful in Dissertation Work Review - II. If he fails to obtain the minimum required marks, he has to reappear for Dissertation Work Review - II as and when conducted.
- 7.13 The Dissertation Work Review - III in II Year II Sem. carries 100 internal marks. Evaluation should be done by the DRC for 50 marks and the Supervisor will evaluate it for the other 50 marks. The DRC will examine the overall progress of the Dissertation Work and decide whether or not the Dissertation is eligible for final submission. A candidate has to secure a minimum of 50% of marks to be declared successful in Dissertation Work Review - III. If he fails to obtain the required minimum marks, he has to reappear for Dissertation Work Review - III as and when conducted. For Dissertation Evaluation (Viva Voce) in II Year II Sem. there are external marks of 100 and it is evaluated by the external examiner. The candidate has to secure a minimum of 50% marks in Dissertation Evaluation (Viva-Voce) examination.
- 7.14 Dissertation Work Reviews - II and III shall be conducted in phase I (Regular) and Phase II (Supplementary). Phase II will be conducted only for unsuccessful students in Phase I. The unsuccessful students in Dissertation Work Review - II (Phase II) shall reappear for it at the time of Dissertation Work Review - III (Phase I). These students shall reappear for Dissertation Work Review - III in the next academic year at the time of Dissertation Work Review - II only after completion of Dissertation Work Review - II, and then Dissertation Work Review - III follows. The unsuccessful students in Dissertation Work Review - III (Phase II) shall reappear for Dissertation Work Review - III in the next academic year only at the time of Dissertation Work Review - II (Phase I).



- 7.15 After approval from the DRC, a soft copy of the thesis should be submitted for ANTI-PLAGIARISM check and the plagiarism report should be submitted to the University and be included in the final thesis. The Thesis will be accepted for submission, if the similarity index is less than 30%. If the similarity index has more than the required percentage, the student is advised to modify accordingly and re-submit the soft copy of the thesis after one month. The maximum number of re-submissions of thesis after plagiarism check is limited to TWO. The candidate has to register for the Dissertation work and work for two semesters. After three attempts, the admission is liable to be cancelled. The college authorities are advised to make plagiarism check of every soft copy of theses before submissions.
- 7.16 Three copies of the Dissertation Thesis certified by the supervisor shall be submitted to the College/School/Institute, after submission of a research paper related to the Dissertation work in a UGC approved journal. A copy of the submitted research paper shall be attached to thesis.
- 7.17 The thesis shall be adjudicated by an external examiner selected by the University. For this, the Principal of the College/School/Institute shall submit a panel of **three** examiners from among the list of experts in the relevant specialization as submitted by the supervisor concerned and Head of the Department.
- 7.18 If the report of the external examiner is unsatisfactory, the candidate shall revise and resubmit the Thesis. If the report of the examiner is unsatisfactory again, the thesis shall be summarily rejected. Subsequent actions for such dissertations may be considered, only on the specific recommendations of the external examiner and /or Dissertation Review Committee. No further correspondence in this matter will be entertained, if there is no specific recommendation for resubmission.
- 7.19 If the report of the examiner is satisfactory, the Head of the Department shall coordinate and make arrangements for the conduct of Dissertation Viva-Voce examination. The Dissertation Viva-Voce examination shall be conducted by a board consisting of the Supervisor, Head of the Department and the external examiner who adjudicated the Thesis. The candidate has to secure a minimum of 50% of marks in Dissertation Evaluation (Viva-Voce) examination.
- 7.20 If he fails to fulfill the requirements as specified in 7.19, he will reappear for the Dissertation Viva-Voce examination only after three months. In the reappeared examination also, if he fails to fulfill the requirements, he will not be eligible for the award of the degree, unless he is asked to revise and resubmit his Dissertation Work by the board within a specified time period (within **four** years from the date of commencement of his first year first semester).
- 7.21 The Dissertation Viva-Voce External examination marks must be submitted to the University on the day of the examination.
- 7.22 ***For mandatory(audit) courses, a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course. These marks should also be uploaded along with the internal marks of other subjects.***
- 7.23 ***No marks or letter grades shall be allotted for mandatory(audit) courses. Only Pass/Fail shall be indicated in Grade Card.***
- 8.0 Re-Admission/Re-Registration
- 8.1 Re-Admission for Discontinued Student

A student, who has discontinued the M.Pharm. degree programme due to any reason whatsoever, may be considered for 'readmission' into the same degree programme (with the same specialization) with the academic regulations of the batch into which he gets readmitted, with prior permission from the authorities concerned, subject to item 6.6.



- 8.2 If a student is detained in a subject (s) due to shortage of attendance in any semester, he may be permitted to **re-register** for the same subject(s) in the same category (core or elective group) or equivalent subject, if the same subject is not available, as suggested by the Board of Studies of that department, as and when offered in the subsequent semester(s), with the academic regulations of the batch into which he seeks re-registration, with prior permission from the authorities concerned, subject to item 3.2
- 8.3 A candidate shall be given one chance to re-register and attend the classes for a maximum of two subjects, if the internal marks secured by a candidate are less than 50% and failed in those subjects but fulfilled the attendance requirement. A candidate must re-register for failed subjects within four weeks of commencement of the class work and secure the required minimum attendance. In the event of the student taking this chance, his Continuous Internal Evaluation (internal) marks and Semester End Examination marks obtained in the previous attempt stand cancelled.

9.0 Examinations and Assessment - The Grading System

- 9.1 Grades will be awarded to indicate the performance of each student in each Theory Subject, or Lab/Practicals, or Mini Project with Seminar, Dissertation, etc., based on the percentage of marks obtained in CIE + SEE (Continuous Internal Evaluation + Semester End Examination, both taken together) as specified in Item 7 above, and a corresponding Letter Grade shall be given.
- 9.2 As a measure of the student's performance, a 10-point Absolute Grading System using the following Letter Grades (UGC Guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
90% and above ($\geq 90\%$, $\leq 100\%$)	O (Outstanding)	10
Below 90% but not less than 80% ($\geq 80\%$, $< 90\%$)	A ⁺ (Excellent)	9
Below 80% but not less than 70% ($\geq 70\%$, $< 80\%$)	A (Very Good)	8
Below 70% but not less than 60% ($\geq 60\%$, $< 70\%$)	B ⁺ (Good)	7
Below 60% but not less than 50% ($\geq 50\%$, $< 60\%$)	B (above Average)	6
Below 50% ($< 50\%$)	F (FAIL)	0
Absent	Ab	0

- 9.3 A student obtaining F Grade in any Subject is deemed to have 'failed' and is required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted. In such cases, his Internal Marks (CIE Marks) in those subjects will remain as obtained earlier.
- 9.4 If a student has not appeared for the examinations, 'Ab' Grade will be allocated to him for any subject and shall be considered 'failed' and will be required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted.
- 9.5 A Letter Grade does not imply any specific marks percentage; it is only the range of percentage of marks.
- 9.6 In general, a student shall not be permitted to repeat any Subject/ Course (s) only for the sake of 'Grade Improvement' or 'SGPA/ CGPA Improvement'.



- 9.7 A student earns Grade Point (GP) in each Subject/ Course, on the basis of the Letter Grade obtained by him in that Subject/ Course. The corresponding 'Credit Points' (CP) are computed by multiplying the Grade Point with Credits for that particular Subject/ Course.

$$\text{Credit Points (CP)} = \text{Grade Point (GP)} \times \text{Credits} \dots \text{For a Course}$$

- 9.8 The student passes the Subject/ Course only when he gets GP ≥ 6 (B Grade or above).
- 9.9 The Semester Grade Point Average (SGPA) is calculated by dividing the Sum of Credit Points (ΣCP) secured from ALL Subjects/ Courses registered in a Semester, by the Total Number of Credits registered during that Semester. SGPA is rounded off to TWO Decimal Places. SGPA is thus computed as

$$\text{SGPA} = \left\{ \sum_{i=1}^N C_i G_i \right\} / \left\{ \sum_{i=1}^N C_i \right\} \dots \text{For each Semester,}$$

where 'i' is the Subject indicator index (taking into account all Subjects in a Semester), 'N' is the no. of Subjects 'REGISTERED' for the Semester (as specifically required and listed under the Course Structure of the parent Department), C_i is the no. of Credits allotted to the i^{th} Subject, and G_i represents the Grade Points (GP) corresponding to the Letter Grade awarded for that i^{th} Subject.

- 9.10 The Cumulative Grade Point Average (CGPA) is a measure of the overall cumulative performance of a student over all Semesters considered for registration. The CGPA is the ratio of the Total Credit Points secured by a student in ALL registered Courses in ALL Semesters, and the Total Number of Credits registered in ALL the Semesters. CGPA is rounded off to TWO Decimal Places. CGPA is thus computed from the I Year Second Semester onwards, at the end of each Semester, as per the formula

$$\text{CGPA} = \left\{ \sum_{i=1}^M C_i G_i \right\} / \left\{ \sum_{i=1}^M C_i \right\} \dots \text{for all S Semesters registered}$$

(ie., upto and inclusive of S Semesters, $S \geq 2$),

where 'M' is the TOTAL no. of Subjects (as specifically required and listed under the Course Structure of the parent Department) the Student has 'REGISTERED' for from the 1st Semester onwards upto and inclusive of the Semester S (obviously $M > N$), 'j' is the Subject indicator index (taking into account all Subjects from 1 to S Semesters), C_j is the no. of Credits allotted to the j^{th} Subject, and G_j represents the Grade Points (GP) corresponding to the Letter Grade awarded for that j^{th} Subject. After registration and completion of I Year I Semester however, the SGPA of that Semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade points	Credit Points
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	O	10	$4 \times 10 = 40$
Course 3	4	B	6	$4 \times 6 = 24$
Course 4	3	B	6	$3 \times 6 = 18$
Course 5	3	A+	9	$3 \times 9 = 27$
Course 6	3	B	6	$3 \times 6 = 18$
	21			159



$$\text{SGPA} = 159/21 = 7.57$$

Illustration of calculation of CGPA

Semester	Credits	SGPA	Credits * SGPA
Semester I	24	7	$24 \times 7 = 168$
Semester II	24	6	$24 \times 6 = 144$
Semester III	24	6.5	$24 \times 6.5 = 156$
Semester IV	24	6	$24 \times 6 = 144$
	96		612

$$\text{CGPA} = 612/96 = 6.37$$

10.0 Award of Degree and Class

- 10.1 If a student who registers for all the specified Subjects/ Courses as listed in the Course Structure, satisfies all the Course Requirements, and passes the examinations prescribed in the entire PG Programme (PGP), and secures the required number of **68 Credits** (with $\text{CGPA} \geq 6.0$), shall be declared to have 'QUALIFIED' for the award of the M.Pharm. Degree in the chosen specialization of Pharmacy that he was admitted into.

10.2 Award of Class

After a student has earned the requirements prescribed for the completion of the programme and is eligible for the award of M.Pharm. Degree, he shall be placed in one of the following three classes based on the CGPA:

Class Awarded	CGPA
First Class with Distinction	≥ 7.75
First Class	$6.75 \leq \text{CGPA} < 7.75$
Second Class	$6.00 \leq \text{CGPA} < 6.75$

A student with final CGPA (at the end of the **PGP**) **< 6.00** shall not be eligible for the Award of Degree.

11.0 Withholding of Results

If the student has not paid the dues, if any, to the University or if any case of indiscipline is pending against him, the result and degree of the student will be withheld and he will not be allowed into the next semester.

12.0 General

- 12.1 **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.
- 12.2 **Credit Point:** It is the product of grade point and number of credits for a course.
- 12.3 Wherever the words "he", "him", "his", occur in the regulations, they shall include "she", "her".
- 12.4 The academic regulation should be read as a whole for the purpose of any interpretation.



- 12.5 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the University is final.
- 12.6 The University may change or amend the academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the University.

PRINCIPAL
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**MALPRACTICES RULES****DISCIPLINARY ACTION FOR IMPROPER CONDUCT IN EXAMINATIONS**

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



	answer book or additional sheet, during or after the examination.	appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the Chief Superintendent/Assistant – Superintendent/ any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in- charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	Incase of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the



		remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat.
9.	If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the University for further action to award suitable punishment.	

Malpractices identified by squad or special invigilators

1. Punishments to the candidates as per the above guidelines.
2. Punishment for institutions: (if the squad reports that the college is also involved in encouraging malpractices)
 - (i) A show cause notice shall be issued to the college.
 - (ii) Impose a suitable fine on the college.
 - (iii) Shifting the examination centre from the college to another college for a specific period of not less than one year

PRINCIPAL
Bharat Institute of Technology
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R.R. Dist - 501 510, Telangana

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
REVISED ACADEMIC CALENDAR (2019-20)
B. Pharmacy I Year I & II Semesters

I Sem

S. No	EVENT	DATE	Duration
1	Commencement of Instruction	26 th Aug. 2019	--
2	Dussehra recess	7 th to 19 th Oct. 2019	2 weeks
3	First Mid Term Examinations	31 st Oct. to 2 nd Nov. 2019	--
4	Submission of First Mid Term Exam Marks to University on or before	8 th Nov. 2019	--
5	Parent-Teacher Meeting	9 th Nov. 2019	--
6	Last date of Instruction	24 th Dec. 2019	--
7	Second Mid Term Examinations	27 th to 30 th Dec. 2019	16 weeks
8	Preparation Holidays and Practical Examinations	31 st Dec. 2019 to 7 th Jan 2020	1 week
9	Submission of Second Mid Term Exam Marks to University on or before	7 th Jan. 2020	--
10	End Semester / Supplementary Examinations	8 th to 25 th Jan. 2020	2 weeks

II Sem

S. No	EVENT	DATE	Duration
1	Commencement of Instruction	27 th Jan. 2020	--
2	First Mid Term Examinations	19 th to 21 st March 2020	--
3	Submission of First Mid Term Exam Marks to University on or before	28 th March 2020	--
4	Parent-Teacher Meeting	11 th April 2020	--
5	Last date of Instruction	13 th May 2020	--
6	Second Mid Term Examinations	14 th to 16 th May 2020	16 weeks
7	Preparation Holidays and Practical Examinations	18 th to 23 rd May 2020	--
8	Submission of Second Mid Term Exam Marks to University on or before	23 rd May 2020	--
9	End Semester / Supplementary Examinations	25 th May to 6 th June 2020	2 weeks
10	Summer Vacation	8 th June to 4 th July 2020	4 weeks

Rubhaani
 23.11.2019
 DIRECTOR
 ACADEMIC & PLANNING, JNTUH

SK *SK*

S. S. C. S. S.
 PRINCIPAL
 Bharat Institute of Technology
 Mangalagiri (V), Ibrahimpatnam (SA)
 Dist. Nellore, Andhra Pradesh

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
REVISED ACADEMIC CALENDAR (2019-20)
FOR NON-AUTONOMOUS CONSTITUENT & AFFILIATED COLLEGES
B. TECH./B.PHARM. II, III & IV YEARS I & II SEMESTERS

I SEM

S. No	EVENT	DATE	Duration
1	Commencement of Instruction	15 th July 2019	--
2	First Mid Term Examinations	12 th to 14 th Sept. 2019	--
3	Submission of First Mid Term Exam Marks to University on or before	20 th Sept. 2019	--
4	Parent-Teacher Meeting	21 st Sept. 2019	--
5	Dussehra recess	7 th to 19 th Oct. 2019	2 weeks
6	Last date of Instruction	20 th Nov. 2019	17 weeks
7	Second Mid Term Examinations	21 st to 23 rd Nov. 2019	--
8	Preparation Holidays and Practical Examinations	25 th to 30 th Nov. 2019	1 week
9	Submission of Second Mid Term Exam Marks to University on or before	30 th Nov. 2019	--
10	End Semester Examinations	2 nd to 14 th Dec. 2019	2 weeks

II SEM

S. No	EVENT	DATE	Duration
1	Commencement of Instruction	16 th Dec. 2019	--
2	First Mid Term Examinations	10 th to 12 th Feb. 2020	--
3	Submission of First Mid Term Exam Marks to University on or before	19 th Feb. 2020	--
4	Parent-Teacher Meeting	14 th March 2020	--
5	Last date of Instruction	7 th April 2020	16 weeks
6	Second Mid Term Examinations	8 th to 11 th April 2020	--
7	Preparation Holidays and Practical Examinations	13 th to 18 th April 2020	1 week
8	Submission of Second Mid Term Exam Marks to University on or before	18 th April 2020	--
9	End Semester Examinations	20 th April to 2 nd May 2020	2 weeks
10	Summer Vacation	4 th May to 4 th July 2020	9 weeks

Prabhakar
21.10.19
DIRECTOR

ACADEMIC & PLANNING, JNTUH

Dr. S. S. S. S.
Bharat Institute of Technology
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R.R. Dist - 501 510, Telangana

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

REVISED ACADEMIC CALENDAR (2019-20)

PHARM.D (Regular) and (PB) I YEAR

PHARM. D (Regular) and (Post Baccalaureate) I YEAR

Description	Period	Duration
Commencement of instruction	26 th Aug. 2019	--
Dussehra Recess	7 th to 19 th Oct. 2019	(2 weeks)
First mid examinations	18 th to 23 rd Nov. 2019	(1 week)
Submission of First Mid Term Exam Marks to University on or before	30 th Nov. 2019	--
Parent-Teacher Meeting	14 th Dec. 2019	--
Second mid examinations	10 th to 15 th Feb. 2020	(1 week)
Submission of Second Mid Term Exam Marks to University on or before	22 nd Feb. 2020	--
Parent-Teacher Meeting	14 th March 2020	--
Last date of Instruction	2 nd May 2020	(32 weeks)
Third mid examinations	3 rd to 9 th May 2020	(1 week)
Preparation and Practical Examinations	11 th to 23 rd May 2020	(2 weeks)
Submission of Third Mid Term Exam Marks to University on or before	16 th May 2020	--
End / Supplementary Examinations	25 th to 6 th June 2020	(2 w)
Summer vacation	8 th June to 4 th July 2020	(4 w)

B. K. S. S.

DIRECTOR
ACADEMIC & PLANNING, JNTUH

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S. S. S.
PRINCIPAL

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R.R. Dist - 501 510, Telangana

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
REVISED ACADEMIC CALENDAR (2019-20)
PHARM. D (Regular) II, III, IV, V, VI YEARS and PHARM.D (PB) II YEAR

PHARM. D (Regular) II, III, IV, V YEAR and PHARM.D (PB) II YEAR


Description	Period	Duration
Commencement of instruction	1 st July 2019	--
First mid examinations	16 th to 21 st Sept. 2019	(1 week)
Submission of First Mid Term Exam Marks to University on or before	30 th Sept. 2019	--
Dussehra Recess	7 th to 19 th Oct.2019	(2 weeks)
Parent-Teacher Meeting	9 th Nov. 2019	--
Supplementary Examinations	2 nd to 8 th Nov. 2019	(1 week)
Second mid examinations	6 th to 11 th Jan. 2020	(1 week)
Submission of Second Mid Term Exam Marks to University on or before	18 th Jan. 2020	--
Parent-Teacher Meeting	8 th Feb. 2020	--
Last date of Instruction	28 th Mar. 2020	(34 weeks)
Third mid examinations	30 th Mar. to 4 th April 2020	(1 week)
Submission of Third Mid Term Exam Marks to University on or before	13 th April 2020	--
Preparation and Practical Examinations	6 th to 18 th April 2020	(2 weeks)
End / Supplementary Examinations	20 th April to 2 nd May 2020	(2 weeks)
Summer vacation	4 th April to 4 th July 2020	(9 weeks)

PHARM. D (Regular) VI YEAR and PHARM.D (PB) III YEAR

Description	Period	Duration
Commencement of internship in general ward	1 st July to 28 th Dec. 2019	(6 months)
Report submission of internship in general ward	30 th Dec. 2019	--
Commencement of internship in Specialty ward -1	31 st Dec. 2019 to 29 th Feb. 2020	(2 months)
Report submission of internship in Specialty ward -1	2 nd Mar. 2020	--
Commencement of internship in Specialty ward - 2	3 rd Mar. to 2 nd May 2020	(2 months)
Report submission of internship in Specialty ward-2	4 th May 2020	--
Commencement of internship in Specialty ward - 3	5 th May to 4 th July 2020	(2 months)
Report submission of internship in Specialty ward - 3	6 th July 2020	--
Final viva of internship	8 th July 2020	--


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14


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
REVISED ACADEMIC CALENDAR (2019-20)
M.Tech. / M.Pharm. I Year - I & II Semesters

M.Tech. / M.Pharm. I Year - I Semester

S. No	EVENT	DATE	Duration
1	Commencement of Instruction	26 th Aug. 2019	--
2	Dussehra recess	7 th to 19 th Oct. 2019	2 weeks
3	First Mid Term Examinations	31 st Oct. to 2 nd Nov. 2019	--
4	Submission of First Mid Term Exam Marks to University on or before	8 th Nov. 2019	--
5	Parent-Teacher Meeting	9 th Nov. 2019	--
6	Last date of Instruction	24 th Dec. 2019	--
7	Second Mid Term Examinations	27 th to 30 th Dec. 2019	16 weeks
8	Preparation Holidays and Practical Examinations	31 st Dec. 2019 to 7 th Jan 2020	1 week
9	Submission of Second Mid Term Exam Marks to University on or before	7 th Jan. 2020	--
10	End Semester / Supplementary Examinations	8 th to 25 th Jan. 2020	2 weeks

M.Tech. / M.Pharm. I Year - II Semester

S. No	EVENT	DATE	Duration
1	Commencement of Instruction	27 th Jan. 2020	--
2	First Mid Term Examinations	19 th to 21 st March 2020	--
3	Submission of First Mid Term Exam Marks to University on or before	28 th March 2020	--
4	Parent-Teacher Meeting	11 th April 2020	--
5	Last date of Instruction	13 th May 2020	--
6	Second Mid Term Examinations	14 th to 16 th May 2020	16 weeks
7	Practical Examinations	18 th to 20 th May 2020	--
8	Submission of Second Mid Term Exam Marks to University on or before	20 th May 2020	--
9	Summer Vacation	21 st May to 30 th June 2020	6 weeks
10	End Semester / Supplementary Examinations	1 st to 15 th July 2020	2 weeks

B. Subhasini
23.10.19
DIRECTOR

ACADEMIC & PLANNING, JNTUH

12/11/20

R. S. C. S. S.

PRINCIPAL
Bharat Institute of Technology
Hyderabad (V), Bhadrachalam (M)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
ACADEMIC CALENDAR (2019-20)
 FOR NON-AUTONOMOUS CONSTITUENT & AFFILIATED COLLEGES
M.TECH./M.PHARMACY II YEAR - I & II SEMESTER

M.Tech./M. Pharmacy II Year - I Semester

S. No	EVENT	DATE	Duration
1	Commencement of III Semester	15 th July 2019	
2	Preparation of Project Work Proposals	10 th Aug. 2019	4 weeks
3	Project Work Review -I, Project approval (Part-I commencement)	13 th to 19 th Aug. 2019	—
4	Last date for submission of list of approved students	20 th Aug. 2019	—
5	Comprehensive Viva-Voce	21 st Aug. to 25 th Oct. 2019	—
6	Dussehra recess	7 th to 12 th Oct. 2019	1 week
7	Last date for submission of Comprehensive Viva-Voce Marks	28 th Oct. 2019	—
8	Project Work Review -II (Phase-I)	11 th to 14 th Dec. 2019	—
9	# Project Work Review -II(Phase-II)	27 th to 30 th Dec. 2019	—
10	Last date for submission of PRC-II marks	2 nd Jan. 2020	—
11	Part-I Duration	13 th Aug. to 14 th Dec 2019	18 weeks

M.Tech./M.Pharmacy II Year - II Semester

S. No	EVENT	DATE	Duration
1	Commencement of IV Semester (Project Work Continuation)	16 th Dec. 2019	
2	Project Work Review -III (Phase -I)	12 th to 16 th May 2020	—
3	Last date for submission of Project Work Review-III (Phase-I) Marks	20 th May 2020	—
4	* Date of eligibility of thesis submission	20 th May 2020	
5	Submission of Thesis and Project Viva - Voce Examination (Phase-I) follows	—	—
6	Part-II Duration	16 th Dec. 2019 to 16 th May 2020	22 weeks
7	# Project Work Review - III (Phase -II)	19 th to 23 rd Aug. 2020	—
8	Last date for submission of Project Work Review -III (Phase-II) Marks	26 th Aug. 2020	—
9	Submission of Thesis and Project Viva -Voce Examination (Phase-II) follows		

* After completion of 40 weeks from the date of approval of project work proposal and subject to approval of Project Work Review-III.

Phase-II will be conducted only for unsuccessful students in Phase -I

Note: 1 The unsuccessful students in Project Work Review-II (Phase-II) shall appear for Project Work Review-II at the time of Project Work Review-III. These students shall reappear for Project Work Review-III in the next academic year at the time of Project Work Review -II only after completion of Project Work Review -II, and then Project Work Review -III follows.

2 The unsuccessful students in Project Work Review -III (Phase-II) shall reappear for Project Work Review -III in the next academic year at the time of Project Work Review -II only.

3 The Project Viva-Voce External examination Marks must be submitted on the day of examination to the University.

B. Subhas
DIRECTOR

ACADEMIC & PLANNING, JNTUH

Bharat Institute of Technology
 Hyderabad
 Date: 15.10.2019
 501 510



BHARAT INSTITUTE OF TECHNOLOGY

Mangalpally (V), Ibrahimpatnam (M) R.R. Dist – 501510

(Approved by AICTE & PCI, New Delhi and Affiliated to JNTU, Hyderabad,
Phone: 08414-252645, e-mail: bitpharm2009@gmail.com)

Branch: Pharm D

Date: 6/05/2020

Sub: Programm schedule for Pharm D II, III, IV years as per UGC guidelines for internal assessment

Instructions:

1. Every student has to present a case 5 members in day according to their roll numbers and the cycle continues. The case presentation has to be presented through ppt in SOAP format.
2. The ppt of case has to be submitted in google class room once after the presentation is done and if any corrections needed (if any changes faculty ask).
3. The presented case will be evaluated by faculty for 30 marks considering certain and will give the marks secured by the students depending on their abilities.
4. During the session if any students, couldn't answer the question asked by the faculty or even their fellow classmates the person has to refer it later and submit the answer along with case ppt.

All the attendance of the students will be taken & recorded by the faculty who are taking care of the particular session according to allotted slots. It is the responsibility of the session holder to ensure that link has been shared to students priorly.

5. All class incharges are requested to circulate the information of session and the link to the students.

The following is the schedule or action plan:

Day	PharmD 2 nd Year Time: 10:30-12:00 pm	PharmD 3 rd Year Time: 10:30-12:00pm	PharmD 4 th Year Time: 2:10-3:40 pm
3 week: Case presentation/ ADR Reporting / DI review			
Monday	Dr. Ch. Ascharya	Dr. Kezia S.	Dr. Shibnath Kamila
Tues	Dr. Ch. Ascharya	Dr. Kezia S.	Dr. Shibnath Kamila
Wed	Dr. Ch. Ascharya	Dr. Kezia S.	Dr. Shibnath Kamila
Thurs	Dr. Ch. Ascharya	Dr. Kezia S.	Dr. Shibnath Kamila
Fri	Dr. Ch. Ascharya	Dr. Kezia S.	Dr. Shibnath Kamila
Sat	Dr. Ch. Ascharya	Dr. Kezia S.	Dr. Shibnath Kamila
Note: Atleast five students present their Case or ADR (10-15 mins) everyday			

I/C : Dr. Shibnath Kamila

Members: Dr. Ch. Ascharya & Dr. Kezia Sam

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R.R. Dist - 501 510, Telangana.

PROJECT TITLE LIST

PHARM.D 5TH YEAR

2019-2020

Batch.no	Roll.no	Guide	Topic
1	15171T0006 15171T0011 15171T0017	Dr. V. Satti Reddy	Incidence of NODAT in post kidney transplant
2.	15171T0002 15171T0013 15171T0028	Mrs. Haritha Pasupulati	A study on Antibiotic efficacy in elective orthopedic surgery
3.	15171T0007 15171T0009 15171T0021	Dr. Narender kumar thota	Pemetrexed induced Nephrotoxicity in NSCLC- patients
4.	15171T0003 15171T0004 15171T0015	Dr.Sethu Babu	Impact of Antibiotics and current antibiotics on the clinical outcome of patients
5.	15171T0012 15171T0016 15171T0026	Ms.Twila puspha	Camparative study between short acting and long acting ESA in CKD patient s
6.	15171T0010 15171T0025 15171T0029	Dr.CH. Ascharya	Clinical study on Ratinalization of Meropenem among critically ill patients
7.	15171T0008	Mrs Twila puspha	A prospective open lable comparative study of efficacy of otilonium bromide and Mebeverine hydrochloride
8.	15171T0001 15171T0005 15171T0014	Dr.sai krushna reddy	A Prospective study Management of COPD and clinical outcome in patients
9.	15171T0019 15171T0020 15171T0018	Dr. S.Gurunath	Assesment of Prescriptin pattern of antibiotics in pediatric population of secondary care hospital

Principal
Cham Institute of Technology
Mangalpally (V), Ibrahimpatnam (MD).
R.R. Dist - 501 510 Tel-



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY, HYDERABAD-500 085

PROCEEDINGS OF THE DIRECTOR OF EVALUATION

Procs.No.JNTUH/EB/M.Pharmacy/VV/2019, Dt:15.7.2019

Sub: JNTUH - Examinaton Branch-Appointment of External Examiner for conduct of Project Viva-Voce -Orders-Issued.

ORDER

The Principal, Bharat Inst. of Technology, has sent the panel of external examiners for conducting project viva-voce examination in respect of M.Pharmacy. Course students has requested the university to issue necessary orders appointing the external examiners. The following is the list of examiners appointed to conduct Project Viva-Voce Examination.

Name Of The Course & Panel Id	Hall Ticket No's	External Examiner Appointed
M.Pharmacy(01) Panel_Id : 17_S_3_75	16171S0104 16171S0107 16171S0111	Dr.Nishat Fatima Professor, Shadan Womens's College of Pharmacy, Khairtabad, Hyderabad, Telangana 500004 nishat_fatima50004@yahoo.com 9949215578
M.Pharmacy(03) Panel_Id : 17_S_1_75	16171S0307 16171S0313 16171S0315	Dr.P Shashaidhar Professor, Shadan Women's College of Pharmacy, Khairtadbad, Hyderabad shashi9608@gmail.com 9441119901

The Principal is requested to arrange for conduct of viva-voce examination with in one month from the date of issue of this order, otherwise they have to resubmit the panel. Upload the project viva-MARKS to the JNTUH portal using URL: <http://registrations1.jntuh.ac.in/r15projectthesisismarch2019>. Take the printout of system generated confidential report and get it signed with internal & external examiners and submit the same to DE/JNTUH immediately.

TO
THE PRINCIPAL
Bharat Inst. of Technology

DIRECTOR OF EVALUATION

PRINCIPAL
Bharat Institute of Technology
Mangalpally (V), Ibrahimpatnam
R.R. Dist - 501 510, Telangana



BHARAT INSTITUTE OF TECHNOLOGY

Mangalpally (V), Ibrahimpatnam (M), R. R. District (AP) - 501510
(Approved by AICTE & PCI, New Delhi and Affiliated to JNTUH, Hyderabad)

Sponsored by: CHMR EDUCATIONAL SOCIETY

Phone: 08414-252645, e-mail: bitpharm@yahoo.com

20-01-2020

CIRCULAR

This is to inform that B. Pharmacy IV-II project guides have been assigned and following is the list of guides and their respective students. The project title and one page protocol must be submitted by 31-01-2020.

BHARAT INSTITUTE OF TECHNOLOGY		
Bpharmacy IV Year II SEM SECTION -A		
PROJECT GUIDES ALLOTMENT		
S.NO	NAME OF FACULTY	STUDENT ROLL NO
1	Dr. N. Srinivas	15,46,29,51
2	Dr. P.Hyma	1,16,23,4
3	Dr. Shibnath	3,41,21,37
4	Dr. Y. Phalguna	42,31,32,12
5	Dr. CH.Vijaya vani	74,64,70,55
6	Dr. S. Gurunath	33,22,62,28
7	Dr. Marina D souza	17,61,65,26
8	Dr. G. Sumalatha	14,11,43,6
9	Dr. Mirinmay Das	50,34,20,30
10	Dr. Badrinath	09,71,73,75
11	Dr. Kithika	59,2,38,47
12	Mrs. Haritha	60,40,7,53
13	Mrs. Namratha	8,69,18,13
14	Mr. Dinesh	24,27,72,44
15	Mrs. Sangeetha	161F14,49,19,25
16	Ms. Rachel Nivedita	10,8,45

Class In charges

Academic In charge

Admin In charge



BHARAT INSTITUTE OF TECHNOLOGY (BIT)

Approved by AICTE, Pharmacy Council of India and Affiliated to JNTU,
Sponsored by: CHINTA REDDY MADHUSUDHAN REDDY EDUCATIONAL SOCIETY,
Mamalapalle (Village), Ibrahimpatnam (Mandali), Rajahmundry District - 501570
Accredited by NAAC

EAMCET CODE : BITL

ABOUT US ACADEMICS ADMISSIONS FACILITIES R & D ACTIVITIES GALLERY DISTANCE EDUCATION CONTACT US CAREER ACCREDITATION IQAC (QAAR)

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year -end examination
B. Pharm	B. PH	Semester	5/18/2019	7/30/2019
Pharm D	PD	Year	5/4/2019	8/30/2019
M. Pharm	M. PH	Semester	7/6/2019	9/30/2019

PRINCIPAL
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Mamalapalle, Ibrahimpatnam Dist
Rajahmundry - 501570
Principal bit@bharat.ac.in, 9646909041



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

ACADEMIC REGULATIONS OF B.PHARM. (REGULAR/FULL TIME) STUDENTS **WITH EFFECT FROM THE ACADEMIC YEAR 2017-18 (R-17)**

1.0 Under-Graduate Degree Programme in Pharmacy

1.1 JNTUH offers a 4-year (8 semesters) **Bachelor of Pharmacy (B.Pharm.)** degree programme, under Choice Based Credit System (CBCS) at its affiliated colleges with effect from the academic year 2017-18.

2.0 Eligibility for admission

2.1 Admission to the under graduate programme shall be made either on the basis of the merit rank obtained by the qualified candidate in entrance test conducted by the Telangana State Government (EAMCET) or the University or on the basis of any other order of merit approved by the University, subject to reservations as prescribed by the government from time to time.

2.2 The medium of instructions for the entire under graduate programme in Pharmacy will be **English only**.

3.0 B.Pharm. Programme structure

3.1 A student after securing admission shall pursue the under graduate programme in B.Pharm. in a minimum period of **four** academic years (8 semesters), and a maximum period of **eight** academic years (16 semesters) starting from the date of commencement of first year first semester, failing which student shall forfeit seat in B.Pharm course.

A student shall register for all subjects for covering 196 credits and each student shall secure 196 credits (with CGPA ≥ 5) required for the completion of the under graduate programme and award of the B.Pharm. degree.

3.2 **UGC/ AICTE** specified definitions/ descriptions are adopted appropriately for various terms and abbreviations used in these academic regulations/ norms, which are listed below.

3.2.1 Semester scheme

Each under graduate programme is of 4 academic years (8 semesters) with the academic year being divided into two semesters of 22 weeks (≥ 90 instructional days) each, each semester shall have - 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester

System (CBSS) as indicated by UGC and curriculum / course structure as suggested by AICTE are followed.

3.2.2 Credit courses

All subjects/ courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/ course in an L: T: P: C (lecture periods: tutorial periods: practical periods: credits) structure based on the following general pattern.

- One credit for one hour/ week/ semester for theory/ lecture (L) courses.
- One credit for two hours/ week/ semester for laboratory/ practical (P) courses or tutorials (T).

Courses like environmental science, human values and professional ethics, gender sensitization lab and other student activities like NCC/NSO and NSS are identified as mandatory courses. These courses will not carry any credits.

3.2.3 Subject Course Classification

All subjects/ courses offered for the under graduate programme in Pharmacy (B.Pharm. degree programmes) are broadly classified as follows. The university has followed almost all the guidelines issued by AICTE/UGC.

S. No.	Broad Course Classification	Course Group/ Category	Course Description
1	Foundation Courses (FnC)	BS – Basic Sciences	Includes mathematics, physics and chemistry subjects.
2		PS - Pharmaceutical Sciences	Includes fundamental Pharmacy Subjects.
3		HS – Humanities and Social sciences	Includes subjects related to humanities, social sciences and management.
4	Core Courses (CoC)	PC – Professional Core	Includes core subjects related to the parent discipline.
5	Elective Courses (ElC)	OE – Open Electives	Includes elective subjects related to inter-disciplinary areas of Pharmacy or other than Pharmacy
6	Core Courses	Project Work	B.Pharm. project or UG project or UG major project
7		Seminar	Seminar/ Colloquium based on core contents related to parent discipline.
10	Minor courses	-	1 or 2 Credit courses (subset of HS)
11	Mandatory Courses (MC)	-	Mandatory courses (non-credit)

4.0 Course registration

- 4.1 A 'faculty advisor or counselor' shall be assigned to a group of 15 students, who will advise student about the under graduate programme, its course structure and curriculum, choice/option for subjects/ courses, based on their competence, progress, pre-requisites and interest.
- 4.2 The academic section of the college invites 'registration forms' from students before the beginning of the semester through 'on-line registration', ensuring 'date and time stamping'. The on-line registration requests for any 'current semester' shall be **completed before the commencement of semester end examinations of the 'preceding semester'**.
- 4.3 A student can apply for **on-line** registration, **only after** obtaining the 'written approval' from faculty advisor/counselor, which should be submitted to the college academic section through the Head of the Department. A copy of it shall be retained with Head of the Department, faculty advisor/ counselor and the student.
- 4.4 If the student submits ambiguous choices or multiple options or erroneous entries during **on-line** registration for the subject(s) / course(s) under a given/ specified course group/ category as listed in the course structure, only the first mentioned subject/ course in that category will be taken into consideration.
- 4.5 Subject/ course options exercised through **on-line** registration are final and cannot be changed or inter-changed; further, alternate choices also will not be considered. However, if the subject/ course that has already been listed for registration by the Head of the Department in a semester could not be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to have alternate choice either for a new subject (subject to offering of such a subject), or for another existing subject (subject to availability of seats). Such alternate arrangements will be made by the Head of the Department, with due notification and time-framed schedule, within the **first week** after the commencement of class-work for that semester.
- 4.6 **Open Electives:** Students have to choose one open elective (OE-I) in II year II semester, one (OE-II) in III year I semester, and one (OE-III) in III year II semester and one (OE-IV) in IV year II semester from the list of Open Electives.

5.0 Subjects/ courses to be offered

- 5.1 A typical section (or class) strength for each semester shall be 60.
- 5.2 A subject/ course may be offered to the students, **only if** a minimum of 20 students (1/3 of the section strength) opt for it. The maximum strength of a section is limited to 80 (60 + 1/3 of the section strength).
- 5.3 If more entries for registration of a subject come into picture, then the Head of Department concerned shall decide, whether or not to offer such a subject/ course for **two (or multiple) sections**.


PRINCIPAL

6.0 Attendance requirements:

- 6.1 Attendance in all classes (Lectures/Laboratories/Project Work) is compulsory. The minimum required attendance in aggregate of all the subjects/ courses including the attendance of mid-term examination / Laboratory etc. is 75%. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than 75% (excluding attendance in mandatory courses environmental science, human values and professional ethics, gender sensitization Lab, NCC/NSO, NSS and Industrial Training) for that semester.
- 6.2 Condoning of shortage of attendance (between 65% and 75%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each semester shall be granted by the College Academic Committee on genuine and valid grounds, based on the student's representation with supporting evidence.
- 6.3 A stipulated fee shall be payable towards condoning of shortage of attendance.
- 6.4 Shortage of attendance below 65% in aggregate shall in **no case be condoned**.
- 6.5 Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examinations of that semester. They get detained and their registration for that semester shall stand cancelled. They will not be promoted to the next semester. They may seek re-registration for all those subjects registered in that semester in which student was detained, by seeking re-admission into that semester as and when offered; in case if there are any open electives, the same may also be re-registered if offered. However, if those electives are not offered in later semesters, then alternate electives may be chosen from the **same** set of elective subjects offered under that category.
- 6.6 A student fulfilling the attendance requirement in the present semester shall not be eligible for readmission into the same class.

7.0 Academic requirements

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in item no.6.

- 7.1 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course, if student secures not less than 35% marks (26 out of 75 marks) in the semester end examination, and a minimum of 40% of marks in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of letter grades, this implies securing 'C' grade or above in that subject/ course.

7.2 Promotion Rules

S. No.	Promotion	Conditions to be fulfilled
1	First year first semester to first year second semester	Regular course of study of first year first semester.

2	First year second semester to second year first semester	(i) Regular course of study of first year second semester. (ii) Must have secured at least 24 credits out of 48 credits i.e., 50% of credits up to first year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3.	Second year first semester to second year second semester	Regular course of study of second year first semester.
4	Second year second semester to third year first semester	(i) Regular course of study of second year second semester. (ii) Must have secured at least 58 credits out of 96 credits i.e., 60% of credits up to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	Third year first semester to third year second semester	Regular course of study of third year first semester.
6	Third year second semester to fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 86 credits out of 144 credits i.e., 60% of credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
7	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

7.3 A student shall register for all subjects covering 196 credits as specified and listed in the course structure, fulfills all the attendance and academic requirements for 196 credits, 'earn all 196 credits' by securing SGPA ≥ 5.0 (in each semester) and CGPA (at the end of each successive semester) ≥ 5.0 to successfully complete the under graduate programme.

7.4 After securing the necessary 196 credits as specified for the successful completion of the entire under graduate programme, the student can avail exemption of two subjects up to 6 credits, that is, two open elective subjects for optional drop out from these 196 credits earned; resulting in 190 credits for under graduate programme performance evaluation, i.e., the performance of the student in these 190 credits shall alone be taken into account for the calculation of 'the final CGPA (at the end of under graduate programme, which takes the SGPA of the IV year II semester into account), and shall be indicated in the

grade card of IV year II semester. However, the performance of student in the earlier individual semesters, with the corresponding SGPA and CGPA for which grade cards have already been given will not be altered.

- 7.5 If a student registers for some more 'extra subjects' other than those listed subjects totaling to 196 credits as specified in the course structure, the performances in those 'extra subjects' (although evaluated and graded using the same procedure as that of the required 196 credits) will not be taken into account while calculating the SGPA and CGPA. For such 'extra subjects' registered, % of marks and letter grade alone will be indicated in the grade card as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations 6 and 7.1 – 7.4 above.
- 7.6 A student eligible to appear in the end semester examination for any subject/ course, but absent from it or failed (thereby failing to secure 'C' grade or above) may reappear for that subject/ course in the supplementary examination as and when conducted. In such cases, CIE assessed earlier for that subject/ course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.
- 7.7 A student **detained in a semester due to shortage of attendance, may be re-admitted when the same semester is offered in the next academic year for fulfillment of academic requirements.** The academic regulations under which student has been readmitted shall be applicable. However, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which student has been detained.
- 7.8 A student **detained due to lack of credits, shall be promoted to the next academic year only after acquiring the required academic credits.** The academic regulations under which student has been readmitted shall be applicable to him.

Note: (1) The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum B grade in all the subjects.

(2) CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters.

8.0 Evaluation - Distribution and Weightage of marks

- 8.1 The performance of a student in every subject/course (including practicals and UG major project) will be evaluated for 100 marks each, with 25 marks allotted for CIE (Continuous Internal Evaluation) and 75 marks for SEE (Semester End-Examination).
- 8.2 For theory subjects, during a semester, there shall be two mid-term examinations. Each mid-term examination consists of one objective paper, one descriptive paper and one assignment. The objective paper and the essay paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for objective and 60 minutes for essay paper). The objective paper is set with 20 bits of multiple choice, fill-in the blanks and matching type of questions for a total of 10 marks. The essay paper shall contain 4 full

questions out of which, the student has to answer 2 questions, each carrying 5 marks. While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus. Five marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first mid-examination, and the second assignment should be submitted before the conduct of the second mid-examination. The total marks secured by the student in each mid-term examination are evaluated for 25 marks, and the average of the two mid-term examinations shall be taken as the final marks secured by each student in internals/sessionals. If any student is absent from any subject of a mid-term examination, an on-line test will be conducted for him by the university. The details of the question paper pattern are as follows,

- The end semester examinations will be conducted for 75 marks consisting of two parts viz. i) **Part- A** for 25 marks, ii) **Part - B** for 50 marks.
- Part-A is compulsory question which consists of ten sub-questions. The first five sub-questions are from each unit and carry 2 marks each. The next five sub-questions are one from each unit and carry 3 marks each.
- Part-B consists of five questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an "either" "or" choice, which means that there will be two questions from each unit and the student should answer either of the two questions.

- 8.3** For practical subjects there shall be a continuous internal evaluation during the semester for 25 sessional marks and 75 semester end examination marks. Out of the 25 marks for internal evaluation, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 10 marks conducted by the laboratory teacher concerned. The semester end examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the clusters of colleges which are decided by the examination branch of the university.
- 8.4** There shall be an Industrial Training in IV year I semester. For the Industrial Training, the student 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 IV year I semester and before the commencement of IV year II semester, the student shall submit satisfactory report of the work and certificate duly signed by the authority of training organization to the head of the institute.
- 8.5 Practice School:** In the IV year I semester, every candidate shall undergo a 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 departmental 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). The report shall be submitted to the departmental committee consisting of Head of the Institution, Head of the Department and a senior faculty member. The practice school report shall be evaluated for 100 marks and grade point shall be awarded.

- 8.6 Out of a total of 100 marks for the UG major project, 25 marks shall be allotted for internal evaluation and 75 marks for the end semester examination (viva voce). The end semester examination of the project work shall be conducted by a committee consisting of external examiner, Head of the Department, supervisor of the project and a senior faculty member. The evaluation of UG major project shall be made at the end of IV year II semester. The internal evaluation shall be on the basis of two seminars given by each student on the topic of UG major project.
- 8.7 The laboratory marks and the sessional marks awarded by the college are subject to scrutiny and scaling by the university wherever necessary. In such cases, the sessional and laboratory marks awarded by the college will be referred to a committee. The committee will arrive at a scaling factor and the marks will be scaled accordingly. The recommendations of the committee are final and binding. The laboratory records and internal test papers shall be preserved in the respective institutions as per the university rules and produced before the committees of the university as and when asked for.
- 8.8 For mandatory courses environmental science, human values and professional ethics, gender sensitization lab and Industrial Training a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course.
- 8.9 For mandatory courses NCC/ NSO and NSS, a 'satisfactory participation certificate' shall be issued to the student from the authorities concerned, only after securing $\geq 65\%$ attendance in such a course.
- 8.10 No marks or letter grade shall be allotted for all mandatory/non-credit courses.
- 9.0 **Grading procedure**
- 9.1 Marks will be awarded to indicate the performance of student in each theory subject, laboratory / practicals and UG major project. Based on the percentage of marks obtained (Continuous Internal Evaluation plus Semester End Examination, both taken together) as specified in item 8 above, a corresponding letter grade shall be given.
- 9.2 As a measure of the performance of student, a 10-point absolute grading system using the following letter grades (as per UGC/AICTE guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10

80 and less than 90%	A ⁺ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B ⁺ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	Ab	0

- 9.3 A student obtaining 'F' grade in any subject shall be deemed to have 'failed' and is required to reappear as a 'supplementary student' in the semester end examination, as and when offered. In such cases, internal marks in those subjects will remain the same as those obtained earlier.
- 9.4 A student who has not appeared for examination in any subject, 'Ab' grade will be allocated in that subject, and student shall be considered 'failed'. Student will be required to reappear as a 'supplementary student' in the semester end examination, as and when offered.
- 9.5 A letter grade does not indicate any specific percentage of marks secured by the student, but it indicates only the range of percentage of marks.
- 9.6 A student earns grade point (GP) in each subject/ course, on the basis of the letter grade secured in that subject/ course. The corresponding 'credit points' (CP) are computed by multiplying the grade point with credits for that particular subject/ course.

Credit points (CP) = grade point (GP) x credits For a course

- 9.7 The student passes the subject/ course only when $GP \geq 5$ ('C' grade or above)
- 9.8 The semester grade point average (SGPA) is calculated by dividing the sum of credit points ($\sum CP$) secured from all subjects/ courses registered in a semester, by the total number of credits registered during that semester. SGPA is rounded off to two decimal places. SGPA is thus computed as

$$SGPA = \{ \sum_{i=1}^N C_i G_i \} / \{ \sum_{i=1}^N C_i \} \dots \text{For each semester,}$$

where 'i' is the subject indicator index (takes into account all subjects in a semester), 'N' is the no. of subjects 'registered' for the semester (as specifically required and listed under the course structure of the parent department), C_i is the no. of credits allotted to the i^{th} subject, and G_i represents the grade points (GP) corresponding to the letter grade awarded for that i^{th} subject.

- 9.9 The cumulative grade point average (CGPA) is a measure of the overall cumulative performance of a student in all semesters considered for registration. The CGPA is the ratio of the total credit points secured by a student in all registered courses in all semesters, and the total number of credits registered in all the semesters. CGPA is rounded off to two decimal places. CGPA is thus computed from the I year II semester onwards at the end of each semester as per the formula

$$CGPA = \{ \sum_{j=1}^M C_j G_j \} / \{ \sum_{j=1}^M C_j \} \dots \text{for all S semesters registered}$$

(i.e., up to and inclusive of S semesters, $S \geq 2$),

where 'M' is the total no. of subjects the student has 'registered' i.e., from the 1st semester onwards up to and inclusive of the 8th semester, 'j' is the subject indicator index (takes into account all subjects from 1 to 8 semesters), C_j is the no. of credits allotted to the jth subject, and G_j represents the grade points (GP) corresponding to the letter grade awarded for that jth subject. After registration and completion of first year first semester, the SGPA of that semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	O	10	$4 \times 10 = 40$
Course 3	4	C	5	$4 \times 5 = 20$
Course 4	3	B	6	$3 \times 6 = 18$
Course 5	3	A+	9	$3 \times 9 = 27$
Course 6	3	C	5	$3 \times 5 = 15$
	Total Credits = 21			Total Credit Points = 152

$$\text{SGPA} = 152/21 = 7.24$$

Illustration of calculation of CGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
I Year I Semester				
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	A+	9	$4 \times 9 = 36$
Course 3	4	B	6	$4 \times 6 = 24$
Course 4	3	O	10	$3 \times 10 = 30$
Course 5	3	B+	7	$3 \times 7 = 21$
Course 6	3	A	8	$3 \times 8 = 24$
I Year II Semester				
Course 7	4	B+	7	$4 \times 7 = 28$
Course 8	4	O	10	$4 \times 10 = 40$
Course 9	4	A	8	$4 \times 8 = 32$
Course 10	3	B	6	$3 \times 6 = 18$
Course 11	3	C	5	$3 \times 5 = 15$
Course 12	3	A+	9	$3 \times 9 = 27$
	Total Credits = 42			Total Credit Points = 327

$$\text{CGPA} = 327/42 = 7.79$$

9.10 For merit ranking or comparison purposes or any other listing, **only the 'rounded off'** values of the CGPAs will be used.

9.11 For calculations listed in regulations 9.6 to 9.9, performance in failed subjects/ courses (securing F grade) will also be taken into account, and the credits of such subjects/ courses will also be included in the multiplications and summations. After passing the failed subject(s) newly secured letter grades will be taken into account for calculation of SGPA and CGPA. However, mandatory courses will not be taken into consideration.

10.0 Passing standards

10.1 A student shall be declared successful or 'passed' in a semester, if student secures a $GP \geq 5$ ('C' grade or above) in every subject/course in that semester (i.e. when student gets an $SGPA \geq 5.00$ at the end of that particular semester); and a student shall be declared successful or 'passed' in the entire under graduate programme, only when gets a $CGPA \geq 5.00$ for the award of the degree as required.

10.2 After the completion of each semester, a grade card or grade sheet (or transcript) shall be issued to all the registered students of that semester, indicating the letter grades and credits earned. It will show the details of the courses registered (course code, title, no. of credits, and grade earned etc.), credits earned, SGPA, and CGPA.

11.0 Declaration of results

11.1 Computation of SGPA and CGPA are done using the procedure listed in 9.6 to 9.9.

11.2 For final percentage of marks equivalent to the computed final CGPA, the following formula may be used.

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

12.0 Award of degree

12.1 A student who registers for all the specified subjects/ courses as listed in the course structure and secures the required number of 196 credits (with $CGPA \geq 5.0$), within 8 academic years from the date of commencement of the first academic year, shall be declared to have '**qualified**' for the award of the B.Pharm. degree.

12.2 A student who qualifies for the award of the degree as listed in item 12.1 shall be placed in the following classes.

12.3 Students with final CGPA (at the end of the under graduate programme) ≥ 8.00 , and fulfilling the following conditions -

- (i) Should have passed all the subjects/courses in '**first appearance**' within the first 4 academic years (or 8 sequential semesters) from the date of commencement of first year first semester.
- (ii) Should have secured a $CGPA \geq 8.00$, at the end of each of the 8 sequential semesters, starting from first year first semester onwards.

- (iii) Should not have been detained or prevented from writing the end semester examinations in any semester due to shortage of attendance or any other reason, shall be placed in '**first class with distinction**'.
- 12.4 Students with final CGPA (at the end of the under graduate programme) ≥ 6.50 but < 8.00 , shall be placed in '**first class**'.
- 12.5 Students with final CGPA (at the end of the under graduate programme) ≥ 5.50 but < 6.50 , shall be placed in '**second class**'.
- 12.6 All other students who qualify for the award of the degree (as per item 12.1), with final CGPA (at the end of the under graduate programme) ≥ 5.00 but < 5.50 , shall be placed in '**pass class**'.
- 12.7 A student with final CGPA (at the end of the under graduate programme) < 5.00 will not be eligible for the award of the degree.
- 12.8 Students fulfilling the conditions listed under item 12.3 alone will be eligible for award of '**university rank**' and '**gold medal**'.
- 13.0 **Withholding of results**
- 13.1 If the student has not paid the fees to the university/ college at any stage, or has dues pending due to any reason whatsoever, or if any case of indiscipline is pending, the result of the student may be withheld, and student will not be allowed to go into the next higher semester. The award or issue of the degree may also be withheld in such cases.
- 14.0 **Transitory regulations**
- A. **For students detained due to shortage of attendance:**
1. A Student who has been detained in I year of R09/R13/R15/R16 Regulations due to lack of attendance, shall be permitted to join I year I Semester of R17 Regulations and he is required to complete the study of B. Pharmacy programme within the stipulated period of eight academic years from the date of first admission in I Year.
 2. A student who has been detained in any semester of II, III and IV years of R09/R13/R15/R16 regulations for want of attendance, shall be permitted to join the corresponding semester of R17 regulations and is required to complete the study of B. Pharmacy within the stipulated period of eight academic years from the date of first admission in I Year. The R17 Academic Regulations under which a student has been readmitted shall be applicable to that student from that semester.
- See rule (C) for further Transitory Regulations.
- B. **For students detained due to shortage of credits:**
3. A student of R09/R13/R15/R16 Regulations who has been detained due to lack of credits, shall be promoted to the next semester of R17 Regulations only after acquiring the required credits as per the corresponding regulations of his/her first admission. The student is required to complete the study of B. Pharmacy within the stipulated period of

eight academic years from the year of first admission. The R17 Academic Regulations are applicable to a student from the year of readmission onwards.

See rule (C) for further Transitory Regulations.

C. For readmitted students in R17 Regulations:

4. A student who has failed in any subject under any regulation has to pass those subjects in the same regulations.
5. The maximum credits that a student acquires for the award of degree, shall be the sum of the total number of credits secured in all the regulations of his/her study including R17 Regulations. The performance evaluation of the student will be done after the exemption of two subjects if total credits acquired are ≤ 206 , three subjects if total credits acquired are > 206 (see R17 Regulations for exemption details).
6. If a student readmitted to R17 Regulations, has any subject with 80% of syllabus common with his/her previous regulations, that particular subject in R17 Regulations will be substituted by another subject to be suggested by the University.

Note: If a student readmitted to R17 Regulations, has not studied any subjects/topics in his/her earlier regulations of study which is prerequisite for further subjects in R17 Regulations, the College Principals concerned shall conduct remedial classes to cover those subjects/topics for the benefit of the students.

15.0 Student transfers

- 15.1 There shall be no branch transfers after the completion of admission process.
- 15.2 There shall be no transfers from one college/stream to another within the constituent colleges and units of Jawaharlal Nehru Technological University Hyderabad.
- 15.3 The students seeking transfer to colleges affiliated to JNTUH from various other Universities/institutions have to pass the failed subjects which are equivalent to the subjects of JNTUH, and also pass the subjects of JNTUH which the students have not studied at the earlier institution. Further, though the students have passed some of the subjects at the earlier institutions, if the same subjects are prescribed in different semesters of JNTUH, the students have to study those subjects in JNTUH in spite of the fact that those subjects are repeated.
- 15.4 The transferred students from other Universities/institutions to JNTUH affiliated colleges who are on rolls to be provide one chance to write the CBT (internal marks) in the **failed subjects and/or subjects not studied** as per the clearance letter issued by the university.
- 15.5 The autonomous affiliated colleges have to provide one chance to write the internal examinations in the **failed subjects and/or subjects not studied**, to the students transferred from other universities/institutions to JNTUH autonomous affiliated colleges who are on rolls, as per the clearance (equivalence) letter issued by the University.

16.0 Scope

- 16.1 The academic regulations should be read as a whole, for the purpose of any interpretation.
- 16.2 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- 16.3 The university may change or amend the academic regulations, course structure or syllabi at any time, and the changes or amendments made shall be applicable to all students with effect from the date notified by the university authorities.



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD (Established by Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

Academic Regulations for B.Pharm. (Lateral Entry Scheme) w.e.f the AY 2018-19

1. Eligibility for award of B. Pharm. Degree (LES)

- The LES students after securing admission shall pursue a course of study for not less than three academic years and not more than six academic years.
2. The student shall register for 147 credits and secure 147 credits with CGPA ≥ 5 from II year to IV year B.Pharm. programme (LES) for the award of B.Pharm. degree. **Out of the 147 credits secured, the student can avail exemption up to 6 credits**, that is, two open elective subjects resulting in 141 credits for B.Pharm programme performance evaluation.
3. The students, who fail to fulfil the requirement for the award of the degree in six academic years from the year of admission, shall forfeit their seat in B.Pharm.
4. The attendance requirements of B. Pharm. (Regular) shall be applicable to B.Pharm. (LES).

5. Promotion rule

S. No	Promotion	Conditions to be fulfilled
1	Second year first semester to second year second semester	Regular course of study of second year first semester.
2	Second year second semester to third year first semester	(i) Regular course of study of second year second semester. (ii) Must have secured at least 29 credits out of 48 credits i.e., 60% of credits up

		to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3	Third year first semester to third year second semester	Regular course of study of third year first semester.
4	Third year second semester to fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 58 credits out of 96 credits i.e., 60% of credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

6. All the other regulations as applicable to B. Pharm. 4-year degree course (Regular) will hold good for B. Pharm. (Lateral Entry Scheme).

MALPRACTICES RULES

DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS

	Nature of Malpractice/Improper conduct	Punishment
	If the student:	
1. (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which student is appearing but has not made use of (material shall include any marks on the body of the student which can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	Gives assistance or guidance or receives it from any other student orally or by any other body language methods or	Expulsion from the examination hall and cancellation of the performance in that subject only of all the students involved. In case of an

	communicates through cell phones with any student or persons in or outside the exam hall in respect of any matter.	outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the student is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The hall ticket of the student is to be cancelled and sent to the university.
3.	Impersonates any other student in connection with the examination.	The student who has impersonated shall be expelled from examination hall. The student is also debarred and forfeits the seat. The performance of the original student who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and UG major project) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.

6.	Refuses to obey the orders of the chief superintendent/assistant superintendent / any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the college campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the student(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The students also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all university examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat.
9.	If student of the college, who is not a student for the particular examination or	Student of the colleges expulsion from the examination hall and cancellation of the

	any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat. Person(s) who do not belong to the college will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and UG major project and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the student has appeared including practical examinations and UG major project of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the university for further action to award suitable punishment.	

Malpractices identified by squad or special invigilators

1. Punishments to the students as per the above guidelines.
2. Punishment for institutions : (if the squad reports that the college is also involved in encouraging malpractices)
 - a. A show cause notice shall be issued to the college.
 - b. Impose a suitable fine on the college.
 - c. Shifting the examination centre from the college to another college for a specific period of not less than one year.

* * * * *



भारत का राजपत्र The Gazette of India

साप्ताहिक/WEEKLY

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

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No. 19] NEW DELHI, SATURDAY, MAY 10—MAY 16, 2008 (VAISAKHA 20, 1930)

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

भाग III—खण्ड 4

[PART III—SECTION 4]

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

भारतीय रिज़र्व बैंक

मुंबई-400001, दिनांक 9 अप्रैल 2008

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

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

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आनन्द सिन्हा
कार्यपालक निदेशक

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

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

New Delhi, 10th May, 2008.

Pharm.D. Regulations 2008

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

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

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

CHAPTER-I

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

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CHAPTER-II

3. Duration of the course. –

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

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

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

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

Phase I – consisting of First and Second academic year.

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

4. Minimum qualification for admission to. –

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

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

Mathematics or Biology.

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

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

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

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


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

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

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

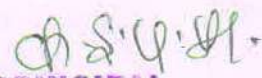
5. Number of admissions in the above said programmes shall be as prescribed by the Pharmacy Council of India from time to time and presently be restricted as below -
 - i) Pharm.D. Programme - 30 students.
 - ii) Pharm.D. (Post Baccalaureate) Programme - 10 students.
6. Institutions running B.Pharm programme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

TABLES

First Year :

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

* For Biology

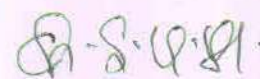

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Second Year:

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

Third Year:

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



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Fourth Year:

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

Fifth Year:

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

* Attending ward rounds on daily basis.


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Sixth Year:

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

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

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

TABLES**First Year examination :**

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

* for Biology.

Second Year examination :

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

Third Year examination :

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

Fourth Year examination :

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


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Fifth Year examination :

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

* Attending ward rounds on daily basis.

** 30 marks – viva-voce (oral)

70 marks – Thesis work

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

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

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

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

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

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

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

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

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

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

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

Ch. S. V. S.

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CHAPTER-III

Practical training

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

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23. Reporting .— (1) Student working on the project shall submit jointly to the Head of the Department or Head of the Institution a project report of about 40-50 pages. Project report should include a certificate issued by the authorised teacher, Head of the Department as well as by the Head of the Institution

(2) Project report shall be computer typed in double space using Times Roman font on A4 paper. The title shall be in bold with font size 18, sub-titles in bold with font size 14 and the text with font size 12. The cover page of the project report shall contain details about the name of the student and the name of the authorised teacher with font size 14.

(3) Submission of the project report shall be done at least one month prior to the commencement of annual or supplementary examination.

24. Evaluation.— The following methodology shall be adopted for evaluating the project work—

(i) Project work shall be evaluated by internal and external examiners.

(ii) Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of four students).

(iii) Three seminars presented by students shall be evaluated for twenty marks each and the average of best two shall be forwarded to the university with marks of other subjects.


(iv) Evaluation shall be done on the following items:

	Marks
a) Write up of the seminar	(7.5)
b) Presentation of work	(7.5)
c) Communication skills	(7.5)
d) Question and answer skills	(7.5)
Total	(30 marks)

(v) Final evaluation of project work shall be done on the following items:

	Marks
a) Write up of the seminar	(17.5)
b) Presentation of work	(17.5)
c) Communication skills	(17.5)
d) Question and answer skills	(17.5)
Total	(70 marks)

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


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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
HYDERABAD**

(Established by Act No.30 of 2008)

Kukatpally, Hyderabad-500085, Telangana State (India)

**Academic Regulations of M.Pharm (Regular/Full Time) Programmes, 2017-18 (R17)
(CBCS)**

(Effective for the students admitted into I year from the Academic Year 2017-18 and onwards)

1.0 Post-Graduate Degree Programmes in Pharmacy (PGP in Pharmacy) Jawaharlal Nehru Technological University Hyderabad (JNTUH) offers **Two Years (Four Semesters)** full-time Master of Pharmacy (M.Pharm.) Degree programmes, under Choice Based Credit System (CBCS) at its constituent (non- autonomous) and affiliated colleges in different specializations.

2.0 Eligibility for Admissions

2.1 Admission to the PGPs shall be made subject to eligibility, qualification and specializations prescribed by the University from time to time, for each specialization under each M.Pharm programme.

2.2 Admission to the post graduate programme shall be made on the basis of either the merit rank or Percentile obtained by the qualified student in the relevant qualifying GPAT Examination/ the merit rank obtained by the qualified student in an entrance test conducted by Telangana State Government (PGE CET) for M.Pharm. programmes / an entrance test conducted by JNTUH/ on the basis of any other exams approved by the University, subject to reservations as laid down by the Govt. from time to time.

2.3 The medium of instructions for all PG Programmes will be **ENGLISH** only.

3.0 M. Pharm. Programme (PGP in Pharmacy) Structure

3.1 The M.Pharm Programmes in Pharmacy of JNTUH are of Semester pattern, with **Four Semesters** consisting of **Two** academic years, each academic year having **Two Semesters** (First/Odd and Second/Even Semesters). Each Semester shall be of 22 weeks duration (inclusive of Examinations), with a minimum of 90 instructional days per Semester.

3.2 The student shall not take more than four academic years to fulfill all the academic requirements for the award of M.Pharm. degree from the date of commencement of first year first semester, failing which the student shall forfeit the seat in M.Pharm. programme.

3.3 **UGC/AICTE** specified definitions/descriptions are adopted appropriately for various terms and abbreviations used in these PG academic regulations, as listed below:

3.3.1 Semester Scheme

Each Semester shall have 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) are taken as 'references' for the present set of Regulations. The terms 'SUBJECT' and 'COURSE' imply the same meaning here and refer to 'Theory Subject', or 'Lab Course', or 'Seminar', or 'Comprehensive Viva', or 'Project' as the case may be.



3.3.2 Credit Courses

All subjects/courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/course in an L: T: P: C (Lecture Periods: Tutorial Periods: Practical Periods: Credits) structure based on the following general pattern:

- One credit for one hour/week/semester for theory/lecture (L) courses
- One credit for two hours/ week/semester for laboratory/ practical (P) courses or tutorials (T)

Other student activities like study tour, guest lecture, conference/workshop participations, technical paper presentations, and identified mandatory courses, if any, will not carry credits.

3.3.3 Subject Course Classification

All subjects/courses offered for the Post-Graduate Programme in Pharmacy (M.Pharm. Degree Programme) are broadly classified as follows. The University has followed in general the guidelines issued by AICTE/UGC.

S.No.	Broad Course Classification	Course Group/ Category	Course Description
1	Core Courses (CoC)	PC- Professional Core	Includes subjects related to the parent discipline/ department
		Project Work	M.Pharm Project or PG Project or Major Project
		Seminar	Seminar/Colloquium based on core contents related to parent discipline/department
		Comprehensive Viva-Voce	Viva-voce covering all the PG subjects studied during the course work and related aspects
2	Elective Courses (Ele)	PE - Professional Electives	Includes elective subjects related to the parent discipline/ department
		OE - Open Electives	Elective subjects which include inter-disciplinary subjects or subjects in an area outside the parent discipline/ department
Total number of Credits			

4.0 Course Registration

- 4.1 A 'Faculty Advisor or Counselor' shall be assigned to each specialization, who will advise on the Post Graduate Programme (PGP), its Course Structure and Curriculum, Choice/Option for Subjects/ Courses, based on his competence, progress, pre-requisites and interest.
- 4.2 The Academic Section of the College invites 'Registration Forms' from students within 15 days from the commencement of class work through 'ON-LINE SUBMISSIONS', ensuring 'DATE and TIME Stamping'. The ON-LINE Registration Requests for any 'CURRENT SEMESTER' shall be completed BEFORE the commencement of SEEs (Semester End Examinations) of the 'PRECEDING SEMESTER'.


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- 4.3 A Student can apply for ON-LINE Registration, ONLY AFTER obtaining the 'WRITTEN APPROVAL' from his Faculty Advisor, which should be submitted to the College Academic Section through the Head of Department (a copy of it being retained with Head of Department, Faculty Advisor and the Student).
- 4.4 If the Student submits ambiguous choices or multiple options or erroneous entries during ON-LINE Registration for the Subject(s) / Course(s) under a given/ specified Course Group/ Category as listed in the Course Structure, only the first mentioned Subject/ Course in that Category will be taken into consideration.
- 4.5 Subject/ Course Options exercised through ON-LINE Registration are final and CANNOT be changed, nor can they be inter-changed; further, alternate choices also will not be considered. However, if the Subject/ Course that has already been listed for Registration by the University in a Semester could not be offered due to unforeseen or unexpected reasons, then the Student will be allowed to have alternate choice either for a new Subject, if it is offered, or for another existing Subject (subject to availability of seats). Such alternate arrangements will be made by the Head of Department, with due notification and time-framed schedule, within the FIRST WEEK from the commencement of Class-work for that Semester.

5.0 Attendance Requirements

The programmes are offered on the basis of a unit system with each subject being considered a unit.

- 5.1 Attendance in all classes (Lectures/Laboratories/Seminar) is compulsory. The minimum required attendance in each theory including the attendance of mid-term examination / Laboratory etc. is 75%. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than 75%.
- 5.2 A student's seminar report and seminar presentation will be eligible for evaluation, only if he ensures a minimum of 75% of his attendance in seminar presentation classes during that semester.
- 5.3 **Condoning of shortage of attendance** (between 65% and 75%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each subject of a semester shall be granted by the College Academic Committee.
- 5.4 Shortage of Attendance below 65% in any subject shall in **no case** be condoned.
- 5.5 A Student, whose shortage of attendance is **not condoned** in any subject(s) in any semester, is considered detained in that subject(s) and is not eligible to write Semester End Examination(s) of such subject(s) in that semester, and he has to seek re-registration for those subject(s) in subsequent semesters, and attend the same as and when offered.
- 5.6 A student fulfills the attendance requirement in the present semester, shall not be eligible for readmission into the same class.
- 5.7 A prescribed fee per subject shall be payable for condoning shortage of attendance.


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- 5.8 A student shall put in a minimum required attendance in at least three theory subjects in I Year I semester for promotion to I Year II Semester.

6.0 Academic Requirements

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in item no. 5. The performance of the candidate in each semester shall be evaluated subject-wise, with a maximum of 100 marks per subject / course (theory / practical), on the basis of Internal Evaluation and Semester End Examination.

- 6.1 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/course, if he secures not less than 40% of marks (30 out of 75 marks) in the End Semester Examination, and a minimum of 50% of marks in the sum total of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of Letter Grades and this implies securing 'B' Grade or above in a subject.
- 6.2 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to a subject/ course, if he secures not less than 50% of the total marks. The student is deemed to have failed, if he (i) does not attend the comprehensive viva-voce as per the schedule given, or (ii) does not present the seminar as required. In such a case, he may reappear for comprehensive viva-voce in supplementary examinations and for seminar in the subsequent semesters, as and when scheduled.
- 6.3 A student shall register for all subjects for total of 88 credits as specified and listed in the course structure for the chosen specialization, put in required the attendance and fulfill the academic requirements for securing 88 credits obtaining a minimum of 'B' Grade or above in each subject, and all 88 credits securing Semester Grade Point Average (SGPA) ≥ 6.0 (in each semester) and final Cumulative Grade Point Average (CGPA) (i.e., CGPA at the end of PGP) ≥ 6.0 , to complete the PGP successfully.

Note: (1) The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum B grade in all the subjects.

(2) CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters

- 6.4 Marks and Letter Grades obtained in all those subjects covering the above specified 88 credits alone shall be considered for the calculation of final CGPA, which will be indicated in the Grade Card /Marks Memo of second year second semester.
- 6.5 If a student registers for extra subject(s) (in the parent department or other departments/ branches of Engineering) other than those listed subjects totaling to 88 credits as specified in the course structure, the performance in extra subject(s) (although evaluated and graded using the same procedure as that of the required 88 credits) will not be taken into account while calculating the SGPA and CGPA. For such extra subject(s) registered, percentage of marks and Letter Grade alone will be indicated in the Grade Card/Marks Memo, as a performance measure, subject to completion of the attendance and academic requirements as stated in items 5 and 6.1 - 6.3.




- 6.6 When a student is detained due to shortage of attendance in any subject(s) in any semester, no Grade allotment will be made for such subject(s). However, he is eligible for re-registration of such subject(s) in the subsequent semester(s), as and when next offered, with the academic regulations of the batch into which he is re-registered, by paying the prescribed fees per subject. In all these re-registration cases, the student shall have to secure a fresh set of internal marks and Semester End Examination marks for performance evaluation in such subject(s), and SGPA/CGPA calculations.
- 6.7 A student eligible to appear for the Semester End Examination in any subject, but absent from it or failed (failing to secure 'B' Grade or above), may reappear for that subject at the supplementary examination as and when conducted. In such cases, his internal marks assessed earlier for that subject will be carried over, and added to the marks secured in the supplementary examination, for the purpose of evaluating his performance in that subject.
- 6.8 A Student who fails to earn 88 credits as per the specified course structure, and as indicated above, within **four** academic years from the date of commencement of his first year first semester, shall forfeit his seat in M.Pharm. programme and his admission shall **stand cancelled**.

7.0 Evaluation - Distribution and Weightage of Marks

The performance of a student in each semester shall be evaluated subject- wise (irrespective of credits assigned) for a maximum of 100 marks. The M. Pharm. project work (major project) will also be evaluated for 100 marks.

- 7.1 For the theory subjects 75 marks shall be awarded for the performance in the Semester End Examination and 25 marks shall be awarded for Continuous Internal Evaluation (CIE). The Continuous Internal Evaluation shall be made based on the average of the marks secured in the two Mid-Term Examinations conducted, first Mid-Term examinations in the middle of the Semester and second Mid-Term examinations during the last week of instruction. Each Mid-Term Examination shall be conducted for a total duration of 120 minutes with Part 'A' as compulsory consisting of 5 questions carrying 2 marks each (10 marks), and Part 'B' with 3 questions to be answered out of 5 questions, each question carrying 5 marks (15 marks). The details of the Question Paper pattern for Semester End Examination (Theory) are given below:
- The Semester End Examination will be conducted for 75 marks. It consists of two parts. i) Part A for 25 marks, ii) Part B for 50 marks.
 - Part A is compulsory and consists of 5 questions, one from each unit and carrying 5 marks each.
 - Part B consists of 5 questions carrying 10 marks each. There will be two questions from each unit and only one should be answered.
- 7.2 For practical subjects, 75 marks shall be awarded for performance in the Semester End Examinations and 25 marks shall be awarded for day-to-day performance as Internal Marks.
- 7.3 For conducting laboratory end examinations of all PG Programmes, one internal examiner and one external examiner are to be appointed by the Principal of the College and this is to be informed to the Director of Evaluation of JNTUH within two weeks, before


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commencement of the lab end examinations. The external examiner should be selected from outside the College concerned but within the cluster. No external examiner should be appointed from any other College in the same cluster/any other cluster which is run by the same Management.

- 7.4 There shall be two seminar presentations during I year I semester and II semester respectively. For seminar, a student shall collect the literature on the advanced topic in relevant fields and critically review the literature and submit it to the department in a form of report and shall make an oral presentation before the Department Academic Committee consisting of Head of the Department, seminar coordinator and two other senior faculty members of the department. For each Seminar there will be only internal evaluation for 100 marks. A candidate has to secure a minimum of 50% of marks to be declared successful. If he fails to obtain the minimum mark, he has to reappear for the seminar during the supplementary examinations. The word 'Seminar' implies presentation of Technical Report, presentation/ discussion on the state of Art of Technology.
- 7.5 There shall be a Comprehensive Viva-Voce in II year I Semester. The Comprehensive Viva-Voce is intended to assess the student's understanding of various subjects he has studied during the M.Pharm. course of study. The Head of the Department shall be associated with the conduct of the Comprehensive Viva-Voce through a Committee. The Committee shall consist of Head of the Department, one senior faculty member and an external examiner. The external examiner shall be appointed by the Principal of the college concerned and this is to be informed to the Director of Evaluation of JNTUH within two weeks. The external examiner should be selected from outside the College concerned but within the cluster. No external examiner should be appointed from any other College in the same cluster/any other cluster which is run by the same Management. There are no internal marks for the Comprehensive Viva-Voce and it is evaluated for a maximum of 100 marks. A candidate has to secure a minimum of 50% of marks to be declared successful. If he fails to obtain the minimum marks, he has to reappear for the viva-voce during the supplementary examinations.
- 7.6 Every candidate shall be required to submit a thesis or dissertation on a topic approved by the Project Review Committee.
- 7.7 A Project Review Committee (PRC) shall be constituted with the Head of the Department as Chairperson, Project Supervisor and one senior faculty member of the Departments offering the M.Pharm. programme.
- 7.8 Registration of Project Work: A candidate is permitted to register for the project work after satisfying the attendance requirement in all the subjects, both theory and practicals.
- 7.9 After satisfying 7.8, a candidate has to present in Project Work Review I, in consultation with his Project Supervisor, the title, objective and plan of action of his project work to the Project Work Review Committee (PRC) for approval within four weeks from the commencement of Second year First Semester. Only after obtaining the approval of the PRC can the student initiate the Project work.
- 7.10 If a candidate wishes to change his supervisor or topic of the project, he can do so with the approval of the PRC. However, the PRC shall examine whether or not the change of topic/supervisor leads to a major change of his initial plans of project proposal. If yes, his date of registration for the project work starts from the date of change of Supervisor or topic as the case may be.


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- 7.11 A candidate shall submit his project progress report in two stages at least with a gap of **three** months between them.
- 7.12 The work on the project shall be initiated at the beginning of the II year and the duration of the project is two semesters. A candidate is permitted to submit Project Thesis only after successful completion of all theory and practical courses with the approval of PRC not earlier than 40 weeks from the date of approval of the project work. For the approval of PRC the candidate shall submit the draft copy of thesis to the Head of the Department and make an oral presentation before the PRC.
- 7.13 The Project Work Review II in II Year I Sem. carries internal marks of 100. Evaluation should be done by the PRC for 50 marks and the Supervisor will evaluate the work for the other 50 marks. The Supervisor and PRC will examine the Problem Definition, Objectives, Scope of Work, Literature Survey in the same domain and progress of the Project Work. A candidate has to secure a minimum of 50% of marks to be declared successful in Project Work Review II. If he fails to obtain the minimum required marks, he has to reappear for Project Work Review II as and when conducted.
- 7.14 The Project Work Review III in II Year II Sem. carries 100 internal marks. Evaluation should be done by the PRC for 50 marks and the Supervisor will evaluate it for the other 50 marks. The PRC will examine the overall progress of the Project Work and decide whether or not the Project is eligible for final submission. A candidate has to secure a minimum of 50% of marks to be declared successful in Project Work Review III. If he fails to obtain the required minimum marks, he has to reappear for Project Work Review III as and when conducted. For Project Evaluation (Viva Voce) in II Year II Sem. there are external marks of 100 and it is evaluated by the external examiner. The candidate has to secure a minimum of 50% marks in Project Evaluation (Viva-Voce) examination.
- 7.15 Project Work Reviews II and III shall be conducted in phase I (Regular) and Phase II (Supplementary). Phase II will be conducted only for unsuccessful students in Phase I. The unsuccessful students in Project Work Review II (Phase II) shall reappear for it at the time of Project Work Review III (Phase I). These students shall reappear for Project Work Review III in the next academic year at the time of Project Work Review II only after completion of Project Work Review II, and then Project Work Review III follows. The unsuccessful students in Project Work Review III (Phase II) shall reappear for Project Work Review III in the next academic year only at the time of Project Work Review II (Phase I).
- 7.16 After approval from the PRC, a soft copy of the thesis should be submitted for ANTI-PLAGIARISM check and the plagiarism report should be submitted to the University and be included in the final thesis. The Thesis will be accepted for submission, if the similarity index is less than 30%. If the similarity index has more than the required percentage, the student is advised to modify accordingly and re-submit the soft copy of the thesis after one month. The maximum number of re-submissions of thesis after plagiarism check is limited to TWO. The candidate has to register for the Project work and work for two semesters. After three attempts, the admission is liable to be cancelled. The college authorities are advised to make plagiarism check of every soft copy of theses before submissions.
- 7.17 Three copies of the Project Thesis certified by the supervisor shall be submitted to the College/School/Institute, after submission of a research paper related to the project work in a UGC approved journal. A copy of the submitted research paper shall be attached to thesis.



- 7.18 The thesis shall be adjudicated by an external examiner selected by the University. For this, the Principal of the College/School/Institute shall submit a panel of **three** examiners from among the list of experts in the relevant specialization as submitted by the supervisor concerned and Head of the Department.
- 7.19 If the report of the external examiner is unsatisfactory, the candidate shall revise and resubmit the Thesis. If the report of the examiner is unsatisfactory again, the thesis shall be summarily rejected. Subsequent actions for such dissertations may be considered, only on the specific recommendations of the external examiner and /or Project work Review Committee. No further correspondence in this matter will be entertained, if there is no specific recommendation for resubmission.
- 7.20 If the report of the examiner is satisfactory, the Head of the Department shall coordinate and make arrangements for the conduct of Project Viva- Voce examination. The Project Viva-Voce examination shall be conducted by a board consisting of the Supervisor, Head of the Department and the external examiner who adjudicated the Thesis. The candidate has to secure a minimum of 50% of marks in Project Evaluation (Viva-Voce) examination.
- 7.21 If he fails to fulfill the requirements as specified in 7.20, he will reappear for the Viva-Voce examination only after three months. In the reappeared examination also, if he fails to fulfill the requirements, he will not be eligible for the award of the degree, unless he is asked to revise and resubmit his project work by the board within a specified time period (within **four** years from the date of commencement of his first year first semester).
- 7.22 The Project Viva-Voce External examination marks must be submitted to the University on the day of the examination.

8.0 Re-Admission/Re-Registration

8.1 Re-Admission for Discontinued Student

A student, who has discontinued the M. Pharm. degree programme due to any reason whatsoever, may be considered for 'readmission' into the same degree programme (with the same specialization) with the academic regulations of the batch into which he gets readmitted, with prior permission from the authorities concerned, subject to item 6.6.

- 8.2 If a student is detained in a subject (s) due to shortage of attendance in any semester, he may be permitted to **re-register** for the same subject(s) in the same category (core or elective group) or equivalent subject, if the same subject is not available, as suggested by the Board of Studies of that department, as and when offered in the subsequent semester(s), with the academic regulations of the batch into which he seeks re-registration, with prior permission from the authorities concerned, subject to item 3.2
- 8.3 A candidate shall be given one chance to re-register for a maximum of two subjects, if the internal marks secured by a candidate are less than 50% and failed in those subjects. A candidate must re-register for failed subjects within four weeks of commencement of the class work and secure the required minimum attendance. In the event of the student taking this chance, his Continuous Internal Evaluation (internal) marks and Semester End Examination marks obtained in the previous attempt stand cancelled.


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9.0 Examinations and Assessment - The Grading System

- 9.1 Grades will be awarded to indicate the performance of each student in each Theory Subject, or Lab/Practicals, or Seminar, or Project, etc., based on the % of marks obtained in CIE + SEE (Continuous Internal Evaluation + Semester End Examination, both taken together) as specified in Item 7 above, and a corresponding Letter Grade shall be given.
- 9.2 As a measure of the student's performance, a 10-point Absolute Grading System using the following Letter Grades (UGC Guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
90% and above ($\geq 90\%$, $\leq 100\%$)	O (Outstanding)	10
Below 90% but not less than 80% ($\geq 80\%$, $< 90\%$)	A ⁺ (Excellent)	9
Below 80% but not less than 70% ($\geq 70\%$, $< 80\%$)	A (Very Good)	8
Below 70% but not less than 60% ($\geq 60\%$, $< 70\%$)	B ⁺ (Good)	7
Below 60% but not less than 50% ($\geq 50\%$, $< 60\%$)	B (above Average)	6
Below 50% ($< 50\%$)	F (FAIL)	0
Absent	Ab	0

- 9.3 A student obtaining F Grade in any Subject is deemed to have 'failed' and is required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted. In such cases, his Internal Marks (CIE Marks) in those subjects will remain as obtained earlier.
- 9.4 If a student has not appeared for the examinations, 'Ab' Grade will be allocated to him for any subject and shall be considered 'failed' and will be required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted.
- 9.5 A Letter Grade does not imply any specific marks percentage; it is only the range of percentage of marks.
- 9.6 In general, a student shall not be permitted to repeat any Subject/ Course (s) only for the sake of 'Grade Improvement' or 'SGPA/ CGPA Improvement'.
- 9.7 A student earns Grade Point (GP) in each Subject/ Course, on the basis of the Letter Grade obtained by him in that Subject/ Course. The corresponding 'Credit Points' (CP) are computed by multiplying the Grade Point with Credits for that particular Subject/ Course.

$$\text{Credit Points (CP)} = \text{Grade Point (GP)} \times \text{Credits For a Course}$$

- 9.8 The student passes the Subject/ Course only when he gets $GP \geq 6$ (B Grade or above).


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- 9.9 The Semester Grade Point Average (SGPA) is calculated by dividing the Sum of Credit Points (ΣCP) secured from ALL Subjects/ Courses registered in a Semester, by the Total Number of Credits registered during that Semester. SGPA is rounded off to TWO Decimal Places. SGPA is thus computed as

$$SGPA = \{ \sum_{i=1}^N C_i G_i \} / \{ \sum_{i=1}^N C_i \} \dots \text{For each Semester,}$$

where 'i' is the Subject indicator index (taking into account all Subjects in a Semester), 'N' is the no. of Subjects 'REGISTERED' for the Semester (as specifically required and listed under the Course Structure of the parent Department), C_i is the no. of Credits allotted to the i^{th} Subject, and G_i represents the Grade Points (GP) corresponding to the Letter Grade awarded for that i^{th} Subject.

- 9.10 The Cumulative Grade Point Average (CGPA) is a measure of the overall cumulative performance of a student over all Semesters considered for registration. The CGPA is the ratio of the Total Credit Points secured by a student in ALL registered Courses in ALL Semesters, and the Total Number of Credits registered in ALL the Semesters. CGPA is rounded off to TWO Decimal Places. CGPA is thus computed from the I Year Second Semester onwards, at the end of each Semester, as per the formula

$$CGPA = \{ \sum_{j=1}^M C_j G_j \} / \{ \sum_{j=1}^M C_j \} \dots \text{for all S Semesters registered}$$

(ie., upto and inclusive of S Semesters, $S \geq 2$),

where 'M' is the TOTAL no. of Subjects (as specifically required and listed under the Course Structure of the parent Department) the Student has 'REGISTERED' for from the 1st Semester onwards upto and inclusive of the Semester S (obviously $M > N$), 'j' is the Subject indicator index (taking into account all Subjects from 1 to S Semesters), C_j is the no. of Credits allotted to the j^{th} Subject, and G_j represents the Grade Points (GP) corresponding to the Letter Grade awarded for that j^{th} Subject. After registration and completion of I Year I Semester however, the SGPA of that Semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade points	Credit Points
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	O	10	$4 \times 10 = 40$
Course 3	4	B	6	$4 \times 6 = 24$
Course 4	3	B	6	$3 \times 6 = 18$
Course 5	3	A+	9	$3 \times 9 = 27$
Course 6	3	B	6	$3 \times 6 = 18$
	21			159

$$SGPA = 159/21 = 7.57$$

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Illustration of calculation of CGPA

Semester	Credits	SGPA	Credits * SGPA
Semester I	24	7	24*7 = 168
Semester II	24	6	24*6 = 144
Semester III	24	6.5	24*6.5 = 156
Semester IV	24	6	24*6 = 144
	96		612

$$\text{CGPA} = 612/96 = 6.37$$

10.0 Award of Degree and Class

- 10.1 If a student who registers for all the specified Subjects/ Courses as listed in the Course Structure, satisfies all the Course Requirements, and passes the examinations prescribed in the entire PG Programme (PGP), and secures the required number of 88 Credits (with CGPA ≥ 6.0), shall be declared to have 'QUALIFIED' for the award of the M.Pharm. Degree with the specialization that he was admitted into.

10.2 Award of Class

After a student has earned the requirements prescribed for the completion of the programme and is eligible for the award of M.Pharm. Degree, he shall be placed in one of the following three classes based on the CGPA:

Class Awarded	CGPA
First Class with Distinction	≥ 7.75
First Class	$6.75 \leq \text{CGPA} < 7.75$
Second Class	$6.00 \leq \text{CGPA} < 6.75$

A student with final CGPA (at the end of the PGP) < 6.00 shall not be eligible for the Award of Degree.

11.0 Withholding of Results

If the student has not paid the dues, if any, to the University or if any case of indiscipline is pending against him, the result and degree of the student will be withheld and he will not be allowed into the next semester.

12.0. Transitory Regulations

- 12.1 A student who has been detained in any semester of I Year of R13/R15 Regulations due to lack of attendance, shall be permitted to join the same semester of I Year of R17 Regulations and he is required to complete the study of M.Pharm programme within the stipulated period of four academic years from the date of first admission in I Year I semester. The R17 Academic Regulations under which a student has been readmitted shall be applicable to that student from that semester.
- 12.2 Candidate detained due to shortage of attendance in one or more subjects is eligible for re-registration of maximum of two earlier or equivalent subjects at a time as and when offered.

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- 12.3 The candidate who fails in any subject under R13/R15 regulations will be given two chances to pass the same subject in the same regulations; otherwise, he has to identify an equivalent subject and fulfill the academic requirements of that subject as per R17 Academic Regulations.
- 12.4 For student readmitted to R17 Regulations, the maximum credits that a student acquires for the award of the degree, shall be the sum of the total number of credits secured in R13/R15 regulations of his/her study including R17 Regulations.
- 12.5 If a student readmitted to R17 Regulations, has any subject with 80% of syllabus common with his/her previous regulations, that particular subject in R17 regulations will be substituted by another subject to be suggested by the university.
- 13.0 **General**
- 13.1 **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.
- 13.2 **Credit Point:** It is the product of grade point and number of credits for a course.
- 13.3 Wherever the words "he", "him", "his", occur in the regulations, they shall include "she", "her".
- 13.4 The academic regulation should be read as a whole for the purpose of any interpretation.
- 13.5 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the University is final.
- 13.6 The University may change or amend the academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the University.


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MALPRACTICES RULES
DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS

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



		semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the Answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the Chief Superintendent/Assistant Superintendent/ any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in- charge, or any person on duty in or outside the examination hall or any	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.



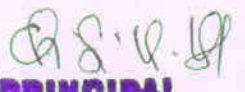
	of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat.
9.	If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them.



10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses it shall be reported to the University for further action to award suitable punishment.	

Malpractices identified by squad or special invigilators

1. Punishments to the candidates as per the above guidelines.
2. Punishment for institutions:- (if the squad reports that the college is also involved in encouraging malpractices)
 - (i) A show cause notice shall be issued to the college.
 - (ii) Impose a suitable fine on the college.
 - (iii) Shifting the examination centre from the college to another college for a specific period of not less than one year.


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

REVISED ACADEMIC CALENDAR (2018-19)


B.PHARMACY I YEAR - I & II SEMESTERS


I SEM

S. No	EVENT	DATE	Duration
1.	Orientation programme	10 th & 11 th August 2018	
2.	Commencement of Instruction	13 th August 2018	--
3.	First Mid Term Examinations	10 th to 12 th Oct. 2018	--
4.	Dussehra Recess	15 th to 20 th Oct. 2018	1 week
5.	Submission of First Mid Term Exam Marks to University on or before	26 th Oct. 2018	--
6.	Parent-Teacher Meeting	10 th Nov. 2018	--
7.	Last date of Instruction	15 th Dec. 2018	16 weeks
8.	Second Mid Term Examinations	17 th to 19 th Dec. 2018	--
9.	Preparation Holidays and Practical Examinations	20 th to 28 th Dec. 2018	1 week
10.	Submission of Second Mid Term Exam Marks to University on or before	28 th Dec. 2018	--
11.	End Semester / Supplementary Examinations	29 th Dec. 2018 to 12 th Jan. 2019	2 weeks

II SEM

S. No	EVENT	DATE	Duration
12.	Commencement of Instruction	16 th Jan. 2019	--
13.	First Mid Term Examinations	14 th to 16 th March 2019	--
14.	Submission of First Mid Term Exam Marks to University on or before	23 rd March 2019	--
15.	Parent-Teacher Meeting	13 th April 2019	--
16.	Last date of Instruction	11 th May 2019	16 weeks
17.	Second Mid Term Examinations	13 th to 15 th May 2019	--
18.	Summer Vacation	16 th May to 1 st June 2019	3 weeks
19.	Submission of Second Mid Term Exam Marks to University on or before	23 rd May 2019	--
20.	End Semester / Supplementary Examinations	3 rd to 22 nd June 2019	3 weeks
21.	Practical Examinations	24 th to 29 th June 2019	1 week
22.	Semester break	1 st to 13 th July 2019	2 weeks


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
REVISED ACADEMIC CALENDAR (2018-19)
FOR NON-AUTONOMOUS CONSTITUENT & AFFILIATED COLLEGES
B. PHARM. II, III & IV YEARS I & II SEMESTERS

I SEM

S. No	EVENT	DATE	Duration
1.	Commencement of Instruction	9 th July 2018	--
2.	First Mid Term Examinations	4 th to 6 th Sept. 2018	--
3.	Submission of First Mid Term Exam Marks to University on or before	15 th Sept. 2018	--
4.	Parent-Teacher Meeting	13 th Oct. 2018	--
5.	Dussehra recess	15 th to 20 th Oct. 2018	1 week
6.	Last date of Instruction	10 th Nov. 2018	16 weeks
7.	Second Mid Term Examinations	12 th to 14 th Nov. 2018	--
8.	Preparation Holidays and Practical Examinations	15 th to 24 th Nov. 2018	1 week
9.	Submission of Second Mid Term Exam Marks to University on or before	24 th Nov. 2018	--
10.	End Semester / Supplementary Examinations	26 th Nov. to 8 th Dec. 2018	2 weeks
11.	Semester Break	10 th to 15 th Dec. 2018	1 week

II SEM

S. No	EVENT	DATE	Duration
1.	Commencement of Instruction	24 th Dec. 2018	--
2.	First Mid Term Examinations	18 th to 20 th Feb. 2019	--
3.	Submission of First Mid Term Exam Marks to University on or before	27 th Feb. 2019	--
4.	Parent-Teacher Meeting	9 th March. 2019	--
5.	Last date of Instruction	20 th April 2019	16 weeks
6.	Second Mid Term Examinations	22 nd to 24 th April 2019	--
7.	Preparation Holidays and Practical Examinations	25 th April to 4 th May 2019	1 week
8.	Submission of Second Mid Term Exam Marks to University on or before	2 nd May 2019	--
9.	End Semester / Supplementary Examinations	6 th to 18 th May 2019	2 weeks
10.	Summer Vacation	20 th May to 13 th July 2019	8 weeks


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR (2018-19)

PHARM.D (Regular) and (PB) I YEAR

PHARM. D (Regular) and (Post Baccalaureate) I YEAR

Description	Period	Duration
Commencement of instruction	13 th Aug. 2018	--
Dussehra Recess	15 th to 20 th Oct. 2018	(1 w)
First mid examinations	29 th Oct. to 3 rd Nov. 2018	(1 w)
Submission of First Mid Term Exam Marks to University on or before	9 th Nov. 2018	--
Parent-Teacher Meeting	10 th Nov. 2018	--
Second mid examinations	21 st to 25 th Jan. 2019	(1 w)
Submission of Second Mid Term Exam Marks to University on or before	2 nd Feb. 2019	--
Parent-Teacher Meeting	9 th Feb. 2019	--
Last date of Instruction	13 th April 2019	(32 w)
Third mid examinations	15 th to 20 th April 2019	(1 w)
Submission of Third Mid Term Exam Marks to University on or before	27 th April 2019	--
Preparation and Practical Examinations	22 nd April to 4 th May 2019	(2 w)
Summer vacation	6 th May to 15 th June 2019	(6 w)
End / Supplementary Examinations	17 th to 29 th June 2019	(2 w)

B. Bhargava
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DIRECTOR

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR (2018-19)

PHARM.D (Regular) II, III, IV, V, VI YEARS and PHARM.D (PB) II, III YEARS

PHARM. D (Regular) II, III, IV, V YEAR and PHARM.D (PB) II YEAR

Description	Period	Duration
Commencement of instruction	9 th July 2018	--
First mid examinations	24 th to 29 th Sept. 2018	(1 week)
Submission of First Mid Term Exam Marks to University on or before	8 th Oct. 2018	
Parent-Teacher Meeting	13 th Oct. 2018	
Dussehra recess	15 th to 20 th Oct. 2018	(1 week)
Supplementary Examinations	22 nd to 10 th Nov. 2018	(3 weeks)
Second mid examinations	07 th to 12 th Jan. 2019	(1 week)
Submission of Second Mid Term Exam Marks to University on or before	22 nd Jan. 2019	--
Parent-Teacher Meeting	9 th Feb. 2019	--
Last date of Instruction	30 th March 2019	(32 weeks)
Third mid examinations	1 st to 6 th April 2019	(1 week)
Submission of Third Mid Term Exam Marks to University on or before	15 th April 2019	--
Preparation and Practical Examinations	8 th to 20 th April 2019	(2 weeks)
End / Supplementary Examinations	22 nd April to 04 th May 2019	(2 weeks)
Summer vacation	06 th May to 29 th June 2019	(8 weeks)

PHARM. D (Regular) VI YEAR and PHARM.D (PB) III YEAR

Description	Period	Duration
Commencement of internship in general ward	9 th July 2018 to 5 th Jan. 2019	(6 months)
Report submission of internship in general ward	7 th Jan. 2019	--
Commencement of internship in Specialty ward -1	8 th Jan. to 7 th March 2019	(2 months)
Report submission of internship in Specialty ward -1	9 th March 2019	--
Commencement of internship in Specialty ward - 2	11 th March to 10 th May 2019	(2 months)
Report submission of internship in Specialty ward - 2	11 th May 2019	--
Commencement of internship in Specialty ward - 3	13 th May to 12 th July 2019	(2 months)
Report submission of internship in Specialty ward -3	13 th July 2019	--
Final v/va of internship	15 th July 2019	--

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
ACADEMIC CALENDAR (2018-19)
M.PHARM. I YEAR - I & II SEMESTER

I Year - I Semester

S. No	EVENT	DATE	Duration
1.	Commencement of Instruction	9 th August 2018	--
2.	First Mid Term Examinations	4 th to 6 th Oct. 2018	--
3.	Submission of First Mid Term Exam Marks to University on or before	12 th Oct. 2018	--
4.	Parent-Teacher Meeting	13 th Oct. 2018	--
5.	Dussehra recess	15 th to 20 th Oct. 2018	1 week
6.	Last date of Instruction	5 th Dec. 2018	16 weeks
7.	Second Mid Term Examinations	6 th to 8 th Dec. 2018	--
8.	Preparation Holidays and Practical Examinations	10 th to 15 th Dec. 2018	1 week
9.	Submission of Second Mid Term Exam Marks to University on or before	15 th Dec. 2018	--
10.	End Semester / Supplementary Examinations	17 th to 29 th Dec. 2018	2 weeks
11.	Semester Break	31 st Dec. 2018 to 5 th Jan 2019	1 week

I Year - II Semester

S. No	EVENT	DATE	Duration
1.	Commencement of Instruction	7 th Jan. 2019	--
2.	First Mid Term Examinations	5 th to 7 th March 2019	--
3.	Submission of First Mid Term Exam Marks to University on or before	14 th March 2019	--
4.	Parent-Teacher Meeting	13 th April 2019	--
5.	Last date of Instruction	1 st May 2019	16 weeks
6.	Second Mid Term Examinations	2 nd to 4 th May 2019	--
7.	Summer Vacation	6 th May to 15 th June 2019	6 weeks
8.	Submission of Second Mid Term Exam Marks to University on or before	10 th May 2019	--
9.	Preparation Holidays and Practical Examinations	17 th to 22 nd June 2019	1 week
10.	End Semester / Supplementary Examinations	24 th June to 6 th July 2019	2 weeks
11.	Semester Break	8 th to 13 th July 2019	1 week

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
ACADEMIC CALENDAR (2018-19)

M.TECH./M.PHARMACY II YEAR - I & II SEMESTER

M.Tech./M. Pharmacy II Year - I Semester

S. No	EVENT	DATE	Duration
1.	Commencement of III Semester	16 th July 2018	--
2.	Preparation of Project Work Proposals	11 th Aug. 2018	4 weeks
3.	Project Work Review-I, Project approval (Part-I commencement)	13 th to 18 th Aug. 2018	--
4.	Last date for submission of list of approved students	20 th Aug. 2018	--
5.	Comprehensive Viva-Voce	21 st Aug. to 25 th Oct. 2018	--
6.	Dussehra recess	15 th to 20 th Oct. 2018	1 week
7.	Last date for submission of Comprehensive Viva-Voce Marks	27 th Oct. 2018	--
8.	Project Work Review -II (Phase-I)	12 th to 15 th Dec. 2018	--
9.	# Project Work Review -II(Phase-II)	27 th to 29 th Dec. 2018	--
10.	Last date for submission of PRC-II marks	2 nd Jan. 2019	--
11.	Part-I Duration	13 th Aug. to 15 th Dec. 2018	18 weeks

M.Tech./M.Pharmacy II Year - II Semester

S. No	EVENT	DATE	Duration
1.	Commencement of IV Semester (Project Work Continuation)	17 th Dec. 2018	--
2.	Project Work Review -III (Phase -I)	14 th to 18 th May 2019	--
3.	Last date for submission of Project Work Review-III (Phase-I) Marks	20 th May 2019	--
4.	* Date of eligibility of thesis submission	20 th May 2019	--
5.	Submission of Thesis and Project Viva -Voce Examination (Phase-I) follows	---	--
6.	Part-II Duration	17 th Dec. 2018 to 18 th May 2019	22 weeks
7.	# Project Work Review - III (Phase -II)	21 st to 24 th Aug. 2019	--
8.	Last date for submission of Project Work Review - III (Phase-II) Marks	26 th Aug. 2019	--
9.	Submission of Thesis and Project Viva -Voce Examination (Phase-II) follows	---	--
10.	Last date for Submission of Thesis	26 th Oct. 2019	--

* After completion of 40 weeks from the date of approval of project work proposal and subject to approval of Project Work Review-III.

Phase-II will be conducted only for unsuccessful students in Phase -I

- Note: 1. The unsuccessful students in Project Work Review-II (Phase-II) shall appear for Project Work Review-III in the next academic year at the time of Project Work Review -II only after completion of Project Work Review -II, and then Project Work Review -III follows.
2. The unsuccessful students in Project Work Review -III (Phase-II) shall reappear for Project Work Review -III in the next academic year at the time of Project Work Review -II only.
3. The Project Viva-Voce External examination Marks must be submitted on the day of examination to the University.

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KUKATPALLY, HYDERABAD-500 085

PROCEEDINGS OF THE DIRECTOR OF EVALUATION

Procs.No.JNTUH/EB/M.Pharmacy/VV/2018, Dt:12.12.2018

Sub: JNTUH - Examinaton Branch-Appointment of External Examiner for conduct of Project Viva-Voce -Orders-Issued.

ORDER

The Principal, Bharat Inst. of Technology, has sent the panel of external examiners for conducting project viva-voce examination in respect of M.Pharmacy. Course students has requested the university to issue necessary orders appointing the external examiners. The following is the list of examiners appointed to conduct Project Viva-Voce Examination.

Name Of The Course & Panel Id	Hall Ticket No's	External Examiner Appointed
M.Pharmacy(03) Panel_Id : 17_S_1_63	16171S0302 16171S0303 16171S0306 16171S0308 16171S0309	Dr. M. Sunitha Reddy Assistant Professor&JNTUH baddam_sunitha@gmail.com 9849958604
M.Pharmacy(03) Panel_Id : 17_S_2_63	16171S0310 16171S0312 16171S0314	Dr. P. Vishnu Professor& B.V. Raju Institute of Technology vishnu.p@gmail.com 9246237117
M.Pharmacy(05) Panel_Id : 17_S_3_63	16171S0501 16171S0507 16171S0508 16171S0510 16171S0511	Dr. B. Veeresh Professor&Pullareddy college of pharmacy veereshsetty@gmail.com 9676110902
M.Pharmacy(05) Panel_Id : 17_S_4_63	16171S0512 16171S0514	Dr.Syed Safiullah Ghor Professor& Anwarululoom college of pharmacy safiullahghori@gmail.com 9848256006

The Principal is requested to arrange for conduct of viva-voce examination with in one month from the date of issue of this order, otherwise they have to resubmit the panel. Upload the project viva-MARKS to the JNTUH portal using URL: <http://registrations1.jntuh.ac.in/r15projectthesisseptember2018>. Take the printout of system generated confidential report and get it signed with internal & external examiners and submit the same to DE/JNTUH immediately.

TO
THE PRINCIPAL
Bharat Inst. of Technology

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DIRECTOR OF EVALUATION
PRINCIPAL
Bharat Institute of Technology
Mangalpally (V), Ibrahimpetnam (iv),
R.R. Dist - 501 510, Telangana.



BHARAT INSTITUTE OF TECHNOLOGY

Mangalpally (V), Ibrahimpatnam (M), R. R. District (AP) – 501510
(Approved by AICTE & PCL, New Delhi and Affiliated to JNTUH, Hyderabad)

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Phone: 08414-252645, e-mail: bitpharm@yahoo.com

S.NO.	GROUP NO	ROLL NO	PROJECT TITLE	GUIDE NAME	SIGNATURE OF GUIDE
1	1	15171R009		DR. E. HARI KRISHNA	
2		15171R020			
3		15171R022			
4		15171R028			
5	2	15171R008		DR.J.N.NARENDRA SHARATH CHANDRA	
6		15171R011			
7		15171R061			
8		15171R063			
9	3	15171R001		DR.M.KIRANMAI MS. K.N MANEESHA (CO- GUIDE)	
10		15171R037			
11		15171R048			
12		15171R039			
13	4	15171R006		Mrs. KALPANA	
14		15171R023			
15		15171R025			
16		15171R035			
17	5	15171R036		Mrs.UMA RAJESHWARI	
18		15171R049			
19		15171R007			
20		15171R014			
21	6	15171R026		Mrs. S. NAMRATHA	
22		15171R032			
23					
24		15171R019			
25	7	15171R030		Mrs. T. SRAVANTI	
26		15171R042			
27		15171R043			
28		15171R015			
29	8	15171R029		Mrs. NIRMALA BHARATHI	
30		15171R033			
31		15171R005			
32		15171R002			
33	9	15171R004		Dr. VIJAYAVANI	
34		15171R034			
35		15171R068			
36		15171R003			
37		15171R018			
38		15171R055			
39		15171R060			

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Mangalpally (V), Ibrahimpatnam (M),
R.R. Dist - 501 510, Telangana.



BHARAT INSTITUTE OF TECHNOLOGY

Mangalpally (V), Ibrahimpatnam (M), R. R. District (AP) – 501510
 (Approved by AICTE & PCI, New Delhi and Affiliated to JNTUH, Hyderabad)
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40	10	15171R031	DR. SANJAY GUPTA	
41		15171R038		
42		15171R044		
43	11	15171R067	DR.G. SUMALTA	
44		15171R012		
45		15171R016		
46		15171R040		
47	12	15171R027	Ms. T. VIJAYA LAKSHMI	
48		15171R013		
49		15171R017		
50		15171R024		
51	13	15171R041	Dr. Mihir Parmar	
		15171R010		
		15171R021		
		15171R051		
	14	15171R053	Mr. G. Rajasekhar Reddy	
		15171R005		
		7		
		15171R065		
	15	15171R062	Ms. U. Ramya	
		15171R052		
		15171R047		
		15171R050		
		15171R046		
		15171R059		
		15171R056		

VISION: To build the nations one among the best centers of excellence engaged in providing overall pharmaceutical education including training and research. Bharat Institute of Technology (Pharmacy) firmly believes that right knowledge and ethical responsibility drives individual's commitment for the service of mankind.

MISSION: M1: To bring to students India's best education, as a combination of teaching theory and practical application of knowledge and research in pharmaceutical sciences in order to train them to many positions of leadership and responsibility in the pharmaceutical industry, academics and health care sector.

M2: To impart education, in a conducive ambience, as comprehensive as possible, with the support of modern technologies and pedagogic tools, and thereby develop in students the abilities and passion to work wisely, creatively and effectively for the betterment of the society.

M3: To impart a value based education, where the mind, body and the soul are holistically developed. major purpose of life is seen by mankind and meeting the great challenges of the future.

[Signature]
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Date: - 02-08-2018

M.Pharmacy Pharmacology 2nd Year Project Details (2018-2019)

S. No.	Student Roll No.	Name of Student	Allotted Supervisor Name	Supervisor Signature	Student Signature
1	17171S101	A.Ragya	Dr. Sumalatha		
2	17171S102	D. Prathyusha	Dr. Mihir Parmar		
3	17171S103	Jhansi Rani	Mr. Dilip		
4	17171S104	Pramodh	Dr. Sanjay Gupta		
5	17171S105	Rohini K	Mrs. Rubeeya		
6	17171S106	Kotamma	Dr. Sanjay Gupta		
7	17171S107	Prasanth	Mrs. Haritha		
8	17171S108	Anitha	Ms. Ramya		
9	17171S109	Sandeep	Dr. Mihir Parmar		
10	17171S110	Swathi T.	Dr. Narendra		

HOD (Dept of Pharmacology)

Dr. Sanjay Gupta

Academic Incharge

Dr. Kiranmai

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