



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA Ananthapuramu)

Recognized u/s 2(f) & 12(B) of the UGC Act, 1956, New Delhi,

ISO 9001:2015 Certified Institution

Chinthareddypalem, Nellore-524003, A.P. India.

Phone & Fax No :0861-2317966; Cell No :+91- 9392901053

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2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient


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Mechanism of Internal/External Assessment

S. No	Name of the program	Regulation	Mechanism
1.	B. Pharmacy	R19	B. Pharm R15 Academic Regulations as per JNTUA
2.	B. Pharmacy	R23	B. Pharm R23 Academic Regulations as per JNTUA
3.	Pharm D	R17	Pharm D R17 Academic Regulations as per JNTUA
4.	M. Pharmacy	R17	M. Pharm R17 Academic Regulations as per JNTUA
5.	M. Pharmacy	R21	M. Pharm R21 Academic Regulations as per JNTUA


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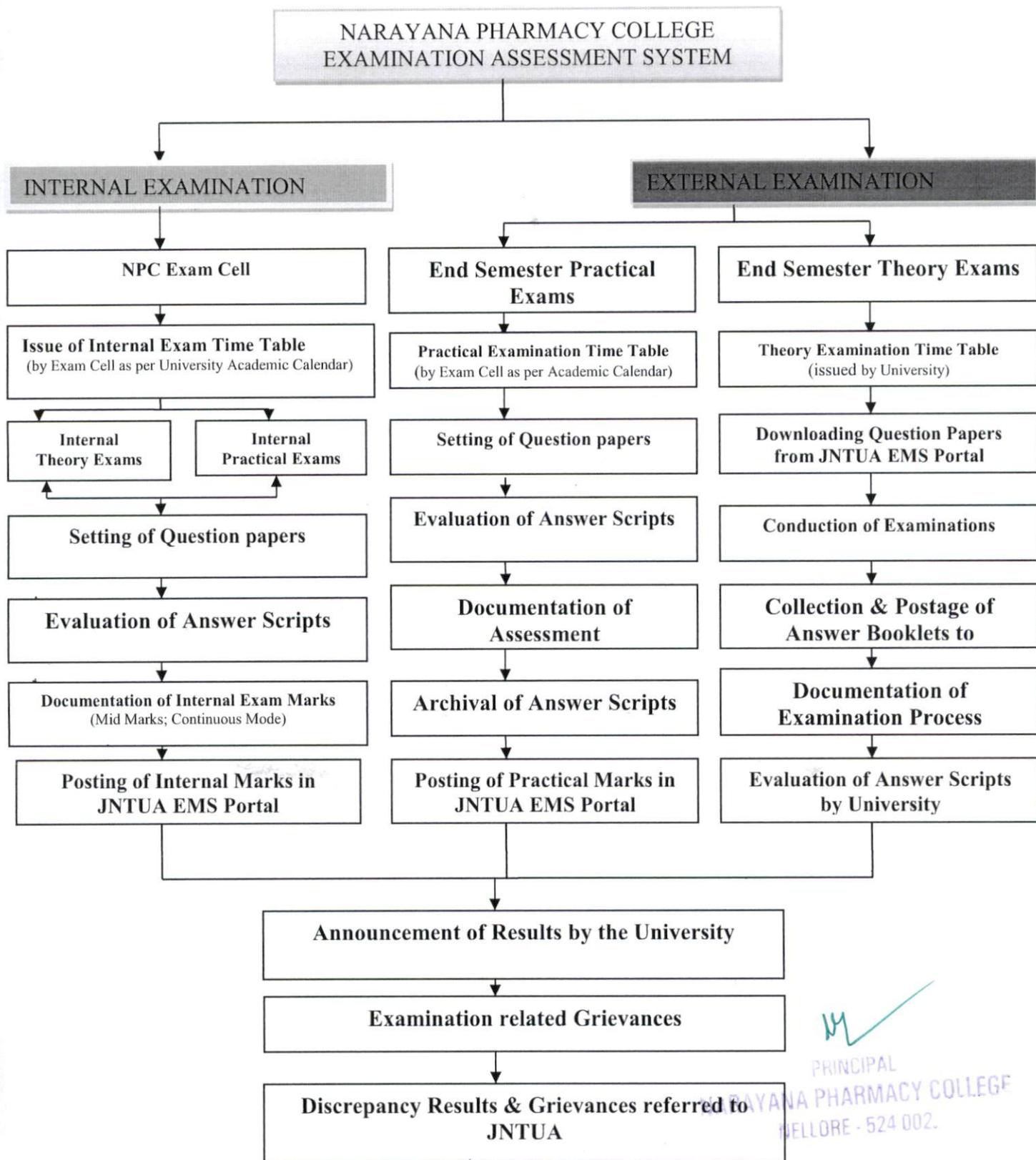
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Examination Assessment System





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Academic Regulations (R19) for B.Pharm

CHAPTER – I : REGULATIONS

1. Short Title and Commencement

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

2. Minimum qualification for admission

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

2.2. B.Pharm lateral entry (to third semester): A pass in D. Pharm. course from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act.

3. Duration of the program

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

4. Medium of instruction and examinations

Medium of instruction and examination shall be in English.

5. Working days in each semester

Each semester shall consist of not less than 100 working days. The odd semesters shall be conducted from the month of June/July to November/December and the even semesters shall be conducted from December/January to May/June in every calendar year.

6. Attendance and progress

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

7. Program/Course credit structure

As per the philosophy of Credit Based Semester System, certain quantum of academic work viz. theory classes, tutorial hours, practical classes, etc. are measured in terms of credits. On satisfactory completion of the courses, a candidate earns credits. The amount of credit associated with a course is dependent upon the


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number of hours of instruction per week in that course. Similarly, the credit associated with any of the other academic, co/extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week.

7.1. Credit assignment

7.1.1. Theory and Laboratory courses

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

7.2. Minimum credit requirements

The minimum credit points required for award of a B. Pharm. degree is 208. These credits are divided into Theory courses, Tutorials, Practical, over the duration of eight semesters. Courses generally progress in sequences, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester-wise schedule of courses given in the syllabus. The lateral entry students shall get 52 credit points transferred from their D. Pharm program. Such students shall take up additional remedial courses of 'Communication Skills' (Theory and Practical) and 'Computer Applications in Pharmacy' (Theory and Practical) equivalent to 3 and 4 credit points respectively, a total of 7 credit points to attain 59 credit points, the maximum of I and II semesters.

8. Academic work

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

8.1. Induction program (zero semester)

Induction program for students to be offered at zero semester to bring the conducive atmosphere among the students community right at the start of the first year for duration of three weeks.

- | | |
|--|---|
| a) Physical activity – Sports, Yoga, Heartfulness
relaxation and meditation | e) Proficiency Modules |
| b) Creative Arts | f) Lectures by Eminent People |
| c) Universal Human Values | g) Visits to Local Areas |
| d) Literary | h) Familiarization to Dept. Innovations |

9. Course of study

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

Table-I: Course of study for semester I

Course Code	Name of the course	No. of Hours	Tutorial	Credit Points
BP101T	Human Anatomy and Physiology I- Theory	3	1	4
BP102T	Pharmaceutical Analysis I - Theory	3	1	4
BP103T	Pharmaceutics I - Theory	3	1	4
BP104T	Pharmaceutical Inorganic Chemistry - Theory	3	1	4
BP105T	Communication skills - Theory *	2	-	2
BP106RBT BP106RMT	Remedial Biology/ Mathematics - Theory*	2	-	2
BP107P	Human Anatomy and Physiology - Practical	4	-	2
BP108P	Pharmaceutical Analysis I - Practical	4	-	2
BP109P	Pharmaceutics I - Practical	4	-	2
BP110P	Pharmaceutical Inorganic Chemistry - Practical	4	-	2
BP111P	Communication skills - Practical*	2	-	1
BP112RBP	Remedial Biology - Practical*	2	-	1
BP113CV	Comprehensive Viva-Voce ^c - I	-	-	-
	Total	32/34^s/ 36[#]	4	27/29^s/ 30[#]

^sApplicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM) course.

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

* Non University Examination (NUE)

^c Non University Examination (NUE) with grading

Table-II: Course of study for semester II

Course Code	Name of the course	No. of Hours	Tutorial	Credit Points
BP201T	Human Anatomy and Physiology II - Theory	3	1	4
BP202T	Pharmaceutical Organic Chemistry I - Theory	3	1	4
BP203T	Biochemistry - Theory	3	1	4
BP204T	Pathophysiology - Theory	3	1	4
BP205T	Computer Applications in Pharmacy - Theory*	3	-	3
BP206T	Environmental sciences - Theory*	3	-	3
BP207P	Human Anatomy and Physiology II - Practical	4		2
BP208P	Pharmaceutical Organic Chemistry I- Practical	4		2
BP209P	Biochemistry - Practical	4		2
BP210P	Computer Applications in Pharmacy - Practical*	4		2
BP211CV	Comprehensive Viva-Voce ^c - II	-	-	-

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	Total	32	4	29
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* Non University Examination (NUE)

© Non University Examination (NUE) with grading

Table-III: Course of study for semester III

Course Code	Name of the course	No. of Hours	Tutorial	Credit Points
BP301T	Pharmaceutical Organic Chemistry II - Theory	3	1	4
BP302T	Physical Pharmaceutics I -Theory	3	1	4
BP303T	Pharmaceutical Microbiology - Theory	3	1	4
BP304T	Pharmaceutical Engineering - Theory	3	1	4
BP305P	Pharmaceutical Organic Chemistry II - Practical	4	-	2
BP306P	Physical Pharmaceutics I - Practical	4	-	2
BP307P	Pharmaceutical Microbiology -Practical	4	-	2
BP308P	Pharmaceutical Engineering - Practical	4	-	2
BP309CV	Comprehensive Viva-Voce [©] - III	-	-	-
BP310MC	Universal Human Values	-	-	-
	Total	28	4	24

© Non University Examination (NUE) with grading

Table-IV: Course of study for semester IV

Course Code	Name of the course	No. of Hours	Tutorial	Credit Points
BP401T	Pharmaceutical Organic Chemistry III - Theory	3	1	4
BP402T	Medicinal Chemistry I - Theory	3	1	4
BP403T	Physical Pharmaceutics II - Theory	3	1	4
BP404T	Pharmacology I - Theory	3	1	4
BP405T	Pharmacognosy & Phytochemistry I - Theory	3	1	4
BP406P	Medicinal Chemistry I - Practical	4	-	2
BP407P	Physical Pharmaceutics II -Practical	4	-	2
BP408P	Pharmacology I - Practical	4	-	2
BP409P	Pharmacognosy & Phytochemistry I - Practical	4	-	2
BP410CV	Comprehensive Viva-Voce [©] - IV	-	-	-
	Total	31	5	28

© Non University Examination (NUE) with grading

Table-V: Course of study for semester V

Course Code	Name of the course	No. of Hours	Tutorial	Credit Point
BP501T	Medicinal Chemistry II - Theory	3	1	4
BP502T	Industrial Pharmacy I- Theory	3	1	4
BP503T	Pharmacology II - Theory	3	1	4
BP504T	Pharmacognosy & Phytochemistry II - Theory	3	1	4
BP505T	Pharmaceutical Jurisprudence -Theory	3	1	4
BP506P	Industrial Pharmacy I- Practical	4	-	2
BP507P	Pharmacognosy & Phytochemistry II - Practical	4	-	2
BP508P	Pharmacognosy II - Practical	4	-	2

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BP509CV	Comprehensive Viva-Voce [‡] - V	-	-	-
	Total	27	5	26

[‡] Non University Examination (NUE) with grading

Table-VI: Course of study for semester VI

Course Code	Name of the course	No. of Hours	Tutorial	Credit Points
BP601T	Medicinal Chemistry III - Theory	3	1	4
BP602T	Pharmacology III - Theory	3	1	4
BP603T	Herbal Drug Technology -Theory	3	1	4
BP604T	Biopharmaceutics and Pharmacokinetics Theory	3	1	4
BP605T	Pharmaceutical Biotechnology -Theory	3	1	4
BP606T	Quality Assurance- Theory	3	1	4
BP607P	Medicinal chemistry III -Practical	4	-	2
BP608P	Pharmacology III Practical	4	-	2
BP609P	Herbal Drug Technology - Practical	4	-	2
BP610CV	Comprehensive Viva-Voce [‡] - VI	-	-	-
	Total	30	6	30

[‡] Non University Examination (NUE) with grading

Table-VII: Course of study for semester VII

Course Code	Name of the course	No. of Hours	Tutorial	Credit Points
BP701T	Instrumental Methods of Analysis - Theory	3	1	4
BP702T	Industrial Pharmacy - Theory	3	1	4
BP703T	Pharmacy Practice - Theory	3	1	4
BP704T	Novel Drug Delivery System - Theory	3	1	4
BP705P	Instrumental Methods of Analysis -Practical	4	-	2
BP706PS	Practice School*	12	-	6
BP707MC	Constitution of India [‡]	-	-	-
BP708CV	Comprehensive Viva-Voce [‡] - VII	-	-	-
	Total	28	5	24

* Non University Examination (NUE)

[‡] Non University Examination (NUE) with grading

Table-VIII: Course of study for semester VIII

Course Code	Name of the course	No. of Hours	Tutorial	Credit Points			
BP801T	Biostatistics and Research Methodology - Theory	3	1	4			
BP802T	Social and Preventive Pharmacy - Theory	3	1	4			
BP803ET	Pharmaceutical Marketing - Theory	3	1	4			
BP804ET	Pharmaceutical Regulatory Science - Theory						
BP805ET	Pharmacovigilance - Theory						
BP806ET	Quality Control and Standardization of Herbals - Theory						
BP807ET	Computer Aided Drug Design - Theory						
BP808ET	Cell and Molecular Biology - Theory						
BP809ET	Cosmetic Science - Theory						
BP810ET	Experimental Pharmacology - Theory						
BP811ET	Advanced Instrumentation Techniques - Theory						
BP812ET	Dietary Supplements & Nutraceuticals						
	Total						4 = 8

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BP813PW	Project Work	12	-	6
BP814MC	Essence of India Traditional Knowledge [€]	-	-	-
BP815MC	Comprehensive Viva-Voce [€] - VIII	-	-	-
	Total	24	4	22

[€] Non University Examination (NUE) with grading

Table-IX: Semester wise credits distribution

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

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

^{\$}Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics course.

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

9.1. Mandatory Courses (Non-credit Courses)

Mandatory courses shall be conducted at

Semester III – Universal Human Values

Semester VII – Constitution of India

Semester VIII – Essence of India Traditional Knowledge

Comprehensive Viva-Voce should be introduced with internal evaluation.

Comprehensive viva-voce shall be conducted at the end of every semester.

10. Program Committee

1. The B. Pharm. program shall have a Program Committee constituted by the Head of the institution in consultation with all the Heads of the departments.
2. The composition of the Program Committee shall be as follows:
A senior teacher shall be the Chairperson; One Teacher from each department handling B.Pharm courses; and four student representatives of the program (one from each academic year), nominated by the Head of the institution.
3. Duties of the Program Committee:
 - i. Periodically reviewing the progress of the classes.
 - ii. Discussing the problems concerning curriculum, syllabus and the conduct of classes.


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- iii. Discussing with the course teachers on the nature and scope of assessment for the course and the same shall be announced to the students at the beginning of respective semesters.
- iv. Communicating its recommendation to the Head of the institution on academic matters.
- v. The Program Committee shall meet at least thrice in a semester preferably at the end of each Sessional exam (Internal Assessment) and before the end semester exam.

11. Examinations/Assessments The scheme for internal assessment and end semester examinations is given in Table - X.

11.1. End semester examinations

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

Table - X. Schemes for internal assessments and end semester examinations semester wise Semester I

Course Code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP101T	Human Anatomy and Physiology I- Theory	10	15	1 Hr	25	75	3 Hrs	100
BP102T	Pharmaceutical Analysis I - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP103T	Pharmaceutics I - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP104T	Pharmaceutical Inorganic Chemistry - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP105T	Communication skills - Theory *	5	10	1 Hr	15	35	1.5 Hrs	50
BP106RBT BP106RMT	Remedial Biology/ Mathematics - Theory*	5	10	1 Hr	15	35	1.5 Hrs	50
BP107P	Human Anatomy and Physiology - Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP108P	Pharmaceutical Analysis I - Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP109P	Pharmaceutics I - Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP110P	Pharmaceutical Inorganic Chemistry - Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP111P	Communication skills - Practical*	5	5	2 Hrs	10	15	2 Hrs	25
BP112RBP	Remedial Biology - Practical*	5	5	2 Hrs	10	15	2 Hrs	25
BP113CV	Comprehensive Viva-Voce ^c - I	-	-	-	-	-	-	-



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	Total	70/75 ⁵ /80 ⁶	115/125 ⁵ /130 ⁶	23/24 ⁵ /26 ⁶ Hrs	185/200 ⁵ /210 ⁶	490/525 ⁵ / 540 ⁶	31.5/33 ⁵ /35 ⁶ Hrs	675/725 ⁵ / 750 ⁶
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⁴Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB) course.

⁵Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM) course.

⁶ Non University Examination (NUE)

⁶ Non University Examination (NUE) shall be graded as satisfactory (50%and above) / Unsatisfactory (less than 50%)

Semester II

Course Code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP201T	Human Anatomy and Physiology II - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP202T	Pharmaceutical Organic Chemistry I - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP203T	Biochemistry - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP204T	Pathophysiology - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP205T	Computer Applications in Pharmacy - Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP206T	Environmental sciences - Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP207P	Human Anatomy and Physiology II -Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP208P	Pharmaceutical Organic Chemistry I- Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP209P	Biochemistry - Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP210P	Computer Applications in Pharmacy - Practical*	5	5	2 Hrs	10	15	2 Hrs	25
BP211CV	Comprehensive Viva-Voce ⁶ - II	-	-	-	-	-	-	-
	Total	80	125	20 Hrs	205	520	30 Hrs	725

* The subject experts at college level shall conduct examinations

⁶ Non University Examination (NUE) shall be graded as satisfactory (50%and above) / Unsatisfactory (less than 50%)

Semester III

Course Code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP301T	Pharmaceutical Organic Chemistry II - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP302T	Physical Pharmaceutics I -Theory	10	15	1 Hr	25	75	3 Hrs	100
BP303T	Pharmaceutical Microbiology - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP304T	Pharmaceutical Engineering - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP305P	Pharmaceutical Organic Chemistry II - Practical	5	10	4 Hr	15	35	4 Hrs	50
BP306P	Physical Pharmaceutics I - Practical	5	10	4 Hr	15	35	4 Hrs	50
BP307P	Pharmaceutical Microbiology -Practical	5	10	4 Hr	15	35	4 Hrs	50
BP308P	Pharmaceutical Engineering - Practical	5	10	4 Hr	15	35	4 Hrs	50
BP309CV	Comprehensive Viva-Voce ⁶ - III	-	-	-	-	-	-	-
BP310MC	Universal Human	-	-	-	50	-	-	-

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Values								
Total	60	100	20	160	440	28Hrs	600	

* Non University Examination (NUE) shall be graded as satisfactory (50%and above) / Unsatisfactory (less than 50%)

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Semester IV

Course Code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP401T	Pharmaceutical Organic Chemistry III - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP402T	Medicinal Chemistry I - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP403T	Physical Pharmaceutics II - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP404T	Pharmacology I - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP405T	Pharmacognosy I - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP406P	Medicinal Chemistry I - Practical	5	10	4 Hr	15	35	4 Hrs	50
BP407P	Physical Pharmaceutics II - Practical	5	10	4 Hr	15	35	4 Hrs	50
BP408P	Pharmacology I - Practical	5	10	4 Hr	15	35	4 Hrs	50
BP409P	Pharmacognosy I - Practical	5	10	4 Hr	15	35	4 Hrs	50
BP410CV	Comprehensive Viva-Voce ⁶ - IV	-	-	-	-	-	-	-
Total		70	115	21 Hr	185	515	31 Hrs	700

⁶ Non University Examination (NUE) shall be graded as satisfactory (50% and above) / Unsatisfactory (less than 50%)

Semester V

Course Code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP501T	Medicinal Chemistry II - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP502T	Industrial Pharmacy I - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP503T	Pharmacology II - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP504T	Pharmacognosy II - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP505T	Pharmaceutical Jurisprudence - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP506P	Industrial Pharmacy I - Practical	5	10	4 Hr	15	35	4 Hrs	50
BP507P	Pharmacology II - Practical	5	10	4 Hr	15	35	4 Hrs	50
BP508P	Pharmacognosy II - Practical	5	10	4 Hr	15	35	4 Hrs	50
BP509CV	Comprehensive Viva-Voce ⁶ - V	-	-	-	-	-	-	-
Total		65	105	17 Hr	170	480	27 Hrs	650

⁶ Non University Examination (NUE) shall be graded as satisfactory (50% and above) / Unsatisfactory (less than 50%)



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Semester VI

Course Code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP601T	Medicinal Chemistry III - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP602T	Pharmacology III - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP603T	Herbal Drug Technology -Theory	10	15	1 Hr	25	75	3 Hrs	100
BP604T	Biopharmaceutics and Pharmacokinetics Theory	10	15	1 Hr	25	75	3 Hrs	100
BP605T	Pharmaceutical Biotechnology -Theory	10	15	1 Hr	25	75	3 Hrs	100
BP606T	Quality Assurance-Theory	10	15	1 Hr	25	75	3 Hrs	100
BP607P	Medicinal chemistry III -Practical	5	10	4 Hr	15	35	4 Hrs	50
BP608P	Pharmacology III Practical	5	10	4 Hr	15	35	4 Hrs	50
BP609P	Herbal Drug Technology - Practical	5	10	4 Hr	15	35	4 Hrs	50
BP610CV	Comprehensive Viva-Voce [€] - VI	-	-	-	-	-	-	-
Total		75	120	18 Hr	195	555	30 Hrs	750

[€] Non University Examination (NUE) shall be graded as satisfactory (50%and above) / Unsatisfactory (less than 50%)

Semester VII

Course Code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP701T	Instrumental Methods of Analysis - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP702T	Industrial Pharmacy - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP703T	Pharmacy Practice - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP704T	Novel Drug Delivery System - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP705P	Instrumental Methods of Analysis -Practical	5	10	4 Hr	15	35	4 Hrs	50
BP706PS	Practice School*	25	-	-	25	125	5 Hrs	150
BP707MC	Constitution of India [€]	-	-	-	-	-	-	-
BP708T	Comprehensive Viva-Voce [€] - VII	-	-	-	-	-	-	-
Total		70	70	8Hrs	140	460	21 Hrs	600

*The subject experts at college level shall conduct examinations

[€] Non University Examination (NUE) shall be graded as satisfactory (50%and above) / Unsatisfactory (less than 50%)

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Semester VIII

Course Code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP801T	Biostatistics and Research Methodology - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP802T	Social and Preventive Pharmacy - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP803ET	Pharmaceutical Marketing - Theory	10 + 10 = 20	15 + 15 = 30	1 + 1 = 2Hrs	25 + 25 = 50	75 + 75 = 150	3 + 3 = 6 Hrs	100 + 100 = 200
BP804ET	Pharmaceutical Regulatory Science - Theory							
BP805ET	Pharmacovigilance - Theory							
BP806ET	Quality Control and Standardization of Herbals - Theory							
BP807ET	Computer Aided Drug Design - Theory							
BP808ET	Cell and Molecular Biology - Theory							
BP809ET	Cosmetic Science - Theory							
BP810ET	Experimental Pharmacology - Theory							
BP811ET	Advanced Instrumentation Techniques - Theory							
BP812ET	Dietary Supplements & Nutraceuticals - Theory							
BP813PW	Project Work	-	-	-	-	150	4 Hrs	150
BP814MC	Essence of India Traditional Knowledge ^c	-	-	-	-	-	-	-
BP815MC	Comprehensive Viva-Voce ^c - VIII	-	-	-	-	-	-	-
Total		40	60	4Hrs	100	450	16 Hrs	550

^c Non University Examination (NUE) shall be graded as satisfactory (50% and above) / Unsatisfactory (less than 50%)

Internal assessment: Continuous mode

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

Table-XI Scheme for awarding internal assessment: Continuous mode

Theory	
Criteria	Maximum Marks
Attendance	4
Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	3
Student - Teacher interaction	3
Total	10
Practical	
	5



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Attendance	2
Based on Practical Records, Regular viva voce, etc.	3
Total	5

Table-XII Guidelines for the allotment of marks for attendance

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

11.2.1. Sessional Exams

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

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

Question paper pattern for theory Sessional examinations

For subjects having University Examination

I. Multiple Choice Questions (MCQs)	= 10 x 1	= 10
OR	OR	
Objective Type Questions (Answer all the questions)	= 5 x 2	= 10
II. Long Answers (Answer 1 out of 2)	= 1 x 10	= 10
III. Short Answers (Answer 2 out of 3)	= 2 x 5	= 10
Total	=	30 Marks

For subjects having Non University Examination

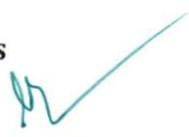
I. Long Answers (Answer 1 out of 2)	= 1 x 10	= 10
II. Short Answers (Answer 4 out of 6)	= 4 x 5	= 20
Total	=	30 Marks

Question paper pattern for practical Sessional examinations

I. Synopsis	= 10
II. Experiments	= 25
III. Viva voce	= 05
Total	= 40 Marks

12. Promotion and award of grades

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


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continuous mode of assessment and end semester theory examination and has to secure a minimum of 25 marks for the total 50 including internal assessment and end semester practical examination.


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13. Carry forward of marks

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

14. Improvement of internal assessment

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

Clarification for Improvement of Internal Assessment

Whomever is opting for Improvement of internal assessment he/she must appear for end semester examination. In case of improvement of internal assessment the better marks should be considered. The re-conduct of the sessional exam shall be completed before the commencement of next semester theory examinations.

15. Re-examination of end semester examinations

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

Table-XIII. Tentative schedule of end semester examinations

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

Question paper pattern for End Semester theory examinations

For 75 marks paper

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

Note: Not more than One question from any one unit (II. For Long Answers)

Note: One question from each unit and not more than two questions from any one unit (III. For Short Answers)

Total = 75 Marks

For 50 marks paper

- I. Long Answers (Answer 2 out of 3)
- II. Short Answers (Answer 6 out of 8)

Total = 50 Marks

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For 35 marks paper

I. Long Answers (Answer 1 out of 2)	=	1 x 10	=	10
II. Short Answers (Answer 5 out of 7)	=	5 x 5	=	25
Total	=			35 Marks

Question paper pattern for end semester practical examinations

I. Synopsis	=	5
II. Experiments	=	25
III. Viva voce	=	5
Total	=	35 Marks

16. Academic Progression:

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

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

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

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

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

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

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

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

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

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

17. Grading of performances

Letter grades and grade points allocations:

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

Table-XIV: Letter grades and grade points equivalent to Percentage of marks and performances

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

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

For mandatory courses, "Satisfactory" or "Unsatisfactory" shall be indicated instead of the letter grade and this will not be conducted for the completion of SGPA/CGPA

18. The Semester grade point average (SGPA)

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

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

The SGPA is calculated to two decimal points. It should be noted that, the SGPA for any semester shall take into consideration the F and ABS grade awarded in that



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

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

19. Cumulative Grade Point Average (CGPA)

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

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

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

20. Declaration of class

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

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

21. Project work

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

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

Evaluation of Dissertation Book:

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

Total 75 Marks

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Evaluation of Presentation:

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

Total 75 Marks

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

22. Industrial training (Desirable)

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

23. Practice School

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

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

Details for conduct of Practice school

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

The program committee shall discuss with various departments in the college and shall provide the Practice School module which the students can opt to enhance their specific skills as desired by them and perform in the college premises only.

For example:

Quality Control & Quality Assurance of Pharmaceuticals, Manufacturing of Dosage forms and their Evaluation, Extraction of Phytoconstituents etc.,

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24. Award of Ranks

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

25. Award of degree

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

26. Duration for completion of the program of study

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

27. Re-admission after break of study

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

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

28. A Socially/Community Health relevant Projects/Extracurricular/Co-curricular activities

The student has to spend 15 Hrs./semester on any socially' community health relevant projects (Health awareness - communicable, non-communicable disorders and diseases, nutritional deficiency disorders, Health as per WHO guidelines, prevention of disorder and diseases, Immunization significance and life style modification) and submit a report for evaluation. This shall be evaluated by a committee consisting of Principal, Head of the department, Project mentor and one senior faculty member of the department.


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Academic Regulations (R19) for B.Pharm (Lateral Entry Scheme)

*(Effective for the students getting admitted into II year through Lateral Entry Scheme
from the Academic Year 2020-2021 onwards)*

1. Award or B.Pharm Degree

A student admitted in Lateral Entry Scheme (LES) will be declared eligible for the award of the B.Pharm degree if the student fulfills the following academic regulations:

- Pursues a course of study for not less than three academic years and not more than six academic years.
- A student shall register and put up minimum 157/159[§]/160[#] credits and the minimum credit points required for award of a B.Pharm. degree is 156.

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

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

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

- Students who fail to earn 208 credits as indicated in the course structure within eight academic years from the year of their admission shall forfeit their seat in B.Pharm course and their admission shall stand cancelled

Students, who fail to fulfill the requirement for the award of the degree within Six consecutive academic years from the year of admission, shall forfeit their seat.

2. The regulations are to be adopted as that of B.Pharm (Regular).

All other regulations as applicable for B. Pharmacy Four-year degree course (Regular) will hold good for B. Pharm (Lateral Entry Scheme).


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Academic Regulations (R23) for B.Pharm (Regular –Full time)

1. Award of the Degree

a) Award of the B. Pharm. Degree

A student will be declared eligible for the award of the B. Pharm. degree if he/she fulfils the following:

- i) Pursues a course of study for not less than four academic years and not more than eight academic years. However, for the students availing Gap year facility this period shall be extended by two years at the most and these two years would in addition to the maximum period permitted for graduation (Eight years).
- ii) Registers for 208 credits and secures all 208 credits.

b) Award of B. Pharm. degree with Honors / Research

A student will be declared eligible for the award of the B. Pharm. with Honors/Research if he/she fulfils the following:

- i) A Student secures an additional 15 credits fulfilling all the requisites of a B. Pharm. programme i.e., 208 credits.
- ii) A student is permitted to register either for Honors or Research but not for both.
- iii) Registering for Honours/Research is optional.
- iv) Honors/Research is to be completed simultaneously with B. Pharm. programme.

2. Students who fail to fulfil all the academic requirements for the award of the degree within eight academic years from the year of their admission shall forfeit their seat in B. Pharm. course and their admission stands cancelled. This clause shall be read along with clause 1 a) i).

3. Admissions

Admission to the B. Pharm. programme shall be made subject to the eligibility, qualifications and specialization prescribed by the A.P. State Government/University from time to time. Admissions shall be made either based on the merit rank obtained by the student in the common entrance examination conducted by the A.P. Government/University or any other order of merit approved by the A.P. Government/University, subject to reservations as prescribed by the Government/University from time to time.

4. Program related terms:

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

Credit definition

1 Hr. Lecture (L) per week	1 credit
Hr. Tutorial (T) per week	1 credit
1 Hr. Practical (P) per week	0.5 credit
2 Hrs. Practical (Lab) per	week 1 credit

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

iii) **Choice Based Credit System (CBCS):** The CBCS provides a choice for students to select from the prescribed courses.

5. Course Classification

All subjects/ courses offered for the B.Pharm. programme are broadly classified as follows. The University has followed the guidelines issued by UGC/PCI.

S.No.	Broad Course Classification	Course Category	Description
1.	Foundation Courses	Fundamental courses	Includes sciences, humanities, social sciences and engineering courses
2.	Core Courses	Professional Courses (PC)	Core Includes core subjects related to the programme.
3.	Elective Courses	Professional Elective Courses (PE)	Includes elective subjects related to the programme.
		Open Elective Courses (OE)	Electives which include multidisciplinary subjects in an area outside the programme.
4.	Skill Courses	Skill Enhancement Courses (SEC)	Courses to develop and strengthen the necessary skills to gain, maintain, and advance in a chosen area.
5.	Project & Internships	Project	B. Pharm. Project or Major Project
		Internships	Community based and Industry Internships
6.	Audit Courses	Mandatory noncredit courses	Covering subjects of developing desired attitude among the learners

6. Programme Pattern

i) The total duration of the B. Pharm. (Regular) programme is four academic years.

ii) Each academic year of study is divided into two semesters.

iii) The minimum number of instruction days in each semester is 90.

iv) There shall be a mandatory student induction program for freshers, with a one week duration before the commencement of the first semester. Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures on eminent People, Visits to local Areas, Familiarization to Branch & Innovations etc., are to be included as per the AICTE guidelines.

v) Increased flexibility for students through an increase in the elective component of the curriculum.

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vi) A pool of job-oriented/domain skill courses which are relevant to the industry are integrated into the curriculum. There shall be 05 skill-oriented courses offered during III to VII semesters.

Among the five skill courses, four courses shall focus on the basic and advanced skills related to the domain and the other shall be a soft skills course.

vii) Students shall undergo practice school and mandatory internships.

viii) An undergraduate degree either with Honours or Research is introduced by the University for the students having good academic record.

ix) Each college shall assign a faculty advisor/mentor after admission to a group of students to provide guidance in courses registration / career growth / placements / opportunities for higher studies / GPAT / other competitive exams etc.

x) Preferably 25% of course work for the theory courses in every semester shall be conducted in the blended mode of learning.

1. Evaluation Process

The performance of a student in each semester shall be evaluated subject-wise with a maximum of **100 marks for theory** and **100 marks for practical** subject. **Practice School** and **Internships** shall be evaluated for **50 marks**, **Project work** in the final semester shall be evaluated for **200 marks**, **mandatory courses** with no credits shall be evaluated for **30** mid semester marks.

A student has to secure **not less than 35% of marks in the end examination** and a **minimum of 40% of marks in the sum total** of the mid semester and end examination marks taken together for the theory, practical or project etc. In the case of a mandatory course, he/she should secure 40% of the total marks.

1.1. For the theory subject, the distribution shall be 30 marks for Internal Evaluation and 70 marks for the End-Examination.

1.2. For practical subjects, the distribution shall be 30 marks for the Internal Evaluation and 70 marks for the End- Examination.

1.3. If any subject has both theory and practical components, they will be evaluated separately as theory subject and practical subject.

A. Guidelines for the conduct of Examinations for Theory Courses

Assessment Method	Marks
Continuous Internal Assessment	30
Semester End Examination	70
Total	100


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Continuous Internal Evaluation

- For theory subjects, during the semester, there shall be **two midterm examinations**. Each **midterm** examination shall be evaluated for **30 marks** of which **10 marks for objective paper** (20 minutes duration), **15 marks for subjective paper** (90 minutes duration) and 5 marks for assignment.
- Objective Paper** shall contain for **05 short answer questions** with **2 marks each** or maximum of **20 bits for 10 marks**. **Subjective Paper** shall contain **3 either or type questions** (totally six questions from 1 to 6) of which student has to answer one from each either-or type of questions. Each question carries **10 marks**. The marks obtained in the subjective paper are **condensed to 15 marks**.

Note:

- The objective paper shall be prepared in line with the quality of competitive examinations questions.
 - The subjective paper shall contain 3 either or type questions of equal weightage of 10 marks. Any fraction shall be rounded off to the next higher mark.
 - The objective paper shall be conducted by the respective institution on the day of subjective paper test.
 - Assignments shall be in the form of mini projects, slip tests, quizzes etc., depending on the course content. It should be continuous assessment throughout the semester and the average marks shall be considered.
- If the student is absent** for the mid semester examination, **no re-exam shall be conducted** and mid semester marks for that examination shall be considered as **zero**.
 - First midterm** examination shall be conducted for **I, II units** of syllabus with one either or type question from each unit and third either or type question from both the units. The **second midterm** examination shall be conducted for **III, IV and V units** with one either or type question from each unit.
 - Final mid semester marks** shall be arrived at **by considering** the marks secured by the student in both the mid examinations with **80% weightage given to the better mid exam and 20% to the other**.

For Example:

Marks obtained in first mid	: 25
Marks obtained in second mid	: 20
Final mid semester Marks	: $(25 \times 0.8) + (20 \times 0.2) = 24$

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If the student is absent for any one midterm examination, the final mid semester marks shall be arrived at by considering 80% weightage to the marks secured by the student in the appeared examination and zero to the other. For Example:

Marks obtained in first mid	: Absent
Marks obtained in second mid	: 25
Final mid semester Marks	: $(25 \times 0.8) + (0 \times 0.2) = 20$

End Examination Evaluation

End examination of theory subjects shall have the following pattern:

- I. There shall be 6 questions and all questions are compulsory.
- II. Question I shall contain 10 compulsory short answer questions for a total of 20 marks such that each question carries 2 marks.
- III. There shall be 2 short answer questions from each unit.
- IV. In each of the questions from 2 to 6, there shall be either/or type questions of 10 marks each. Student shall answer any one of them.
- V. The questions from 2 to 6 shall be set by covering one unit of the syllabus for each question.

B. Guidelines for the conduct of Examinations for Practical Courses

Assessment Method	Marks
Continuous Internal Assessment	30
Semester End Examination	70
Total	100

- a) For practical courses, there shall be a **continuous evaluation** during the semester for **30 sessional marks** and the **end examination** shall be for **70 marks**.
- b) **Day-to-day work** in the laboratory shall be **evaluated for 15 marks** by the concerned laboratory teacher **based on the record/viva** and **15 marks for the internal test**.
- c) The **end examination** shall be evaluated for **70 marks**, conducted by the concerned laboratory teacher and a senior expert in the subject from the same department.

Procedure: 20 marks

Experimental work & Results: 30 marks

Synopsis: 10 marks

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Viva voce: 10 marks.

C. Guidelines for Mandatory Courses with ZERO credits

There shall be **no external examination** for mandatory courses with **zero credits**. However, attendance shall be considered while calculating aggregate attendance and student shall be declared to have **passed the mandatory course** only when he/she **secures 40% or more in the internal examinations**. In case the student fails, a re-examination shall be conducted for failed candidates for 30 marks satisfying the conditions mentioned in item 1 & 2 of the R23 regulations.

D. The **laboratory records and mid semester test papers** shall be **preserved for a minimum of 3 years** in the respective institutions as per the University norms and shall be produced to the Committees of the University as and when the same are asked for.

2. Skill oriented Courses

- 2.1. There shall be **five skill-oriented courses** offered during III to VII semesters.
- 2.2. Out of the five skill courses, **FOUR shall be domain specific and OTHER soft skills course**.
- 2.3. The course shall carry **100 marks** and shall be evaluated through **continuous assessments** during the semester for **30 sessional marks** and **end examination** shall be for **70 marks**. **Day-to-day work** in the class / laboratory shall be evaluated for 30 marks by the concerned teacher based on the regularity/assignments/viva/mid semester test. The **end examination** similar to practical examination pattern shall be conducted by the concerned teacher and an expert in the subject nominated by the principal.
- 2.4. The Head of the Department shall identify a faculty member as coordinator for the course. A committee consisting of the Head of the Department, coordinator and a senior Faculty member nominated by the Head of the Department shall monitor the evaluation process. The marks/grades shall be assigned to the students by the above committee based on their performance.
- 2.5. The student shall be given an option to choose either the skill courses being offered by the college or to choose a certificate course being offered by industries/Professional bodies or any other accredited bodies. If a student chooses to take a Certificate Course offered by external agencies, the credits shall be awarded to the student upon producing the Course Completion Certificate from the agency. A



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committee shall be formed at the level of the college to evaluate the grades/marks given for a course by external agencies and convert to the equivalent marks/grades.

2.6. The recommended courses offered by external agencies, conversions and appropriate grades/marks are to be approved by the University at the beginning of the semester. The principal of the respective college shall forward such proposals to the University for approval.

2.7. If a student prefers to take a certificate course offered by external agency, the department shall mark attendance of the student for the remaining courses in that semester excluding the skill course in all the calculations of mandatory attendance requirements upon producing a valid certificate as approved by the University.

3. Massive Open Online Courses (MOOCs):

3.1. A Student has to pursue and complete one course compulsorily through MOOCs approved by the BOS/University. A student can pursue courses other than core through MOOCs and it is mandatory to complete one course successfully through MOOCs for awarding the degree. A student is not permitted to register and pursue core courses through MOOCs.

3.2. A student shall register for the course (Minimum of either 8 weeks or 12 weeks) offered through MOOCs with the approval of Head of the Department. The Head of the Department shall appoint one mentor to monitor the student's progression. The student needs to earn a certificate by passing the exam. The student shall be awarded the credits assigned in the curriculum only by submission of the certificate. Examination fee, if any, will be borne by the student.

3.3. Students who have qualified in the proctored examinations conducted through MOOCs platform can apply for credit transfer as specified and are exempted from appearing internal as well as external examination (for the specified equivalent credit course only) conducted by the BOS/university.

3.4. Necessary amendments in rules and regulations regarding adoption of MOOC courses would be proposed from time to time.

4. Credit Transfer Policy

Adoption of MOOCs is mandatory, to enable Blended model of teaching/learning as also envisaged in the NEP 2020. As per University Grants Commission (Credit Framework for Online Learning Courses through SWAYAM) Regulation, 2016, the University shall allow up to a maximum of 20% of the total courses being offered in a particular programme through MOOCs platform.

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- I. The Institute shall offer credit mobility for MOOCs and give the equivalent credit weightage to the students for the credits earned through online learning courses.
- II. Student registration for the MOOCs shall be only through the respective department of the institution, it is mandatory for the student to share necessary information with the department.
- III. Credit transfer policy will be applicable to the Professional & Open Elective courses only.
- IV. The concerned department shall identify the courses permitted for credit transfer.
- V. The institution shall notify at the beginning of semester the list of the online learning courses eligible for credit transfer.
- VI. The institution shall designate a faculty member as a Mentor for each course to guide the students from registration till completion of the credit course.
- VII. The BOS/university shall ensure no overlap of MOOC exams with that of the end examination schedule. In case of delay in results, the Examination Branch will re-issue the marks sheet for such students.
- VIII. Student pursuing courses under MOOCs shall acquire the required credits only after successful completion of the course and submitting a certificate issued by the competent authority along with the percentage of marks and grades.
- IX. The Department shall submit the following to the examination section of the Institute:
 - a) List of students who have passed MOOC courses in the current semester along with the certificate of completion.
 - b) Undertaking form filled by the students for credit transfer.
- X. The universities shall resolve any issues that may arise in the implementation of this policy from time to time and shall review its credit transfer policy in the light of periodic changes brought by UGC, SWAYAM, NPTEL and state government.

Note: Students shall be permitted to register for MOOCs offered through online platforms approved by the Institute from time to time.

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11. Academic Bank of Credits (ABC)

The University has implemented Academic Bank of Credits (ABC) to promote flexibility in curriculum as per NEP 2020 to

- 11.1. provide option of mobility for learners across the universities of their choice
- 11.2. provide option to gain the credits through MOOCs from approved digital platforms.
- 11.3. facilitate award of certificate/diploma/degree in line with the accumulated credits in

ABC



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11.4.execute Multiple Entry and Exit system with credit count, credit transfer and credit acceptance from students' account.

12. Summer Internships & Project Work

Summer Internships: Two summer internships either onsite or virtual each with a minimum of **08 weeks duration**, done at the **end of second and third years**, respectively are mandatory. **One of the two summer internships at the end of second year (Community Service Project)** shall be society oriented and shall be completed in collaboration with government organizations/NGOs & others. **The other internship at the end of third year is Industry Internship** and shall be completed in collaboration with Industries. The student shall register for the internship as per course structure after commencement of academic year. The guidelines issued by the APSCHE / University shall be followed for carrying out and evaluation of Community Service Project and Industry Internship.

Evaluation of the summer internships shall be through the **departmental committee**. A student will be required to submit a summer internship report to the concerned department and appear for an oral presentation before the departmental committee comprising of Head of the Department, supervisor of the internship and a senior faculty member of the department. A certificate of successful completion from industry shall be included in the report. **The report and the oral presentation shall carry 50% weightage each.** It shall be evaluated for **50 external marks**. There shall be **no internal marks** for Summer Internship. A student shall **secure minimum 40% of marks for successful completion**. In case, if a student fails, he/she shall reappear as and when semester supplementary examinations are conducted by the Autonomous Institute.

Full Semester Internship and Project work: In the **final semester**, the student should mandatorily register and undergo internship (onsite/virtual) and in parallel he/she should work on a project with well-defined objectives. At the end of the semester the candidate shall submit an internship completion certificate and a project report. A student shall also be permitted to submit project report on the work carried out during the internship. **The project report shall be evaluated with an external examiner. The total marks for project work 200 marks and distribution shall be 60 marks for internal and 140 marks for external evaluation.** The **supervisor assesses the student for 30 marks (Report: 15 marks, Seminar:15 marks)**. At the end of the semester, all projects shall be showcased at the department for the benefit of all students and staff and the same is to be evaluated by the **departmental Project Review Committee** consisting of supervisor, a senior faculty and

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HOD for 30 marks. The external evaluation of Project Work is a **Viva-Voce Examination** conducted in the presence of internal examiner and external examiner appointed by the Autonomous Institute and is evaluated for **140 marks**.

The college shall facilitate and monitor the student internship programs. **Completion of internships is mandatory**, if any student fails to complete internship, he/she will not be eligible for the award of degree. In such cases, the student shall repeat and complete the internship.

13. Guidelines for offering B. Pharm. with Honors / Research

The objective is to facilitate the students to choose specialized courses of their choice and build their competence in a specialized area at the UG level. This is an opportunity for students who have a good academic record and interest in higher studies and research.

B. Pharm. with Honors / Research is applicable to all the Regular and Lateral Entry students.

1. A student shall earn an additional 15 credits for the award of B. Pharm. (Honors / Research) degree. This is in addition to the credits essential for obtaining the B. Pharm. degree (i.e., 208credits).
2. A student is permitted to register for Honors / Research in IV semester after the results of III Semester are declared and students may be allowed to take maximum two subjects per semester pertaining to the Honors / Research from V Semester onwards.
3. The Concerned Principal of the college shall arrange separate class work and timetable of the courses offered under Honors / Research program.
4. Courses that are used to fulfil the student's primary major may not be double counted towards the Honors / Research.
5. Courses with content substantially equivalent to courses in the student's primary Major may not be counted towards the Honors / Research.
6. Students can complete the courses offered under Honors / Research either in the college or in online platforms like SWAYAM with a minimum duration of 12 weeks for a 3-credit course and 8 weeks duration for a 2-credit course satisfying the criteria for credit mobility. If the courses under Honors / Research are offered in conventional mode, then the teaching and evaluation procedure shall be like the regular B. Pharm. programme.
7. The attendance for the registered courses under Honors / Research and regular courses offered for Major degree in a semester are to be considered separately.
8. A student shall maintain an attendance of 75% in all registered courses under Honors / Research to be eligible for attending semester end examinations.

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9. A student registered for Honors / Research shall pass in all subjects that constitute the requirement for the Honors / Research degree program. No class/division (i.e., second class, first class and distinction, etc.) shall be awarded.
10. If a student drops or is terminated from the Honors / Research program, the additional credits so far earned cannot be converted into open or core electives; they will remain extra. However, such students will receive a separate grade sheet mentioning the additional courses completed by them.
11. The Honors / Research will be mentioned in the degree certificate as Bachelor of Pharmacy (Honors / Research).

Enrolment into Honors / Research:

1. The enrolment of students into Honors / Research is based on the percentage of marks obtained in the major degree program.
2. The percentage of marks shall be taken up to III semester in case of regular entry students and only III semester in case of lateral entry students.
3. Students having 7 CGPA without any backlog subjects will be permitted to register for Honors / Research.
4. If a student is detained due to lack of attendance either in Major or in Honors / Research, registration shall be cancelled.
5. The minimum strength required for offering Honors / Research offline is considered as 20% of the sanctioned intake. If a minimum enrolments criterion is not met, then the students may be permitted to register for the equivalent MOOC courses as approved by the concerned Head of the department satisfying criteria for credit mobility.
6. Transfer of credits from Honors / Research to regular B. Pharm. degree and vice versa shall not be permitted.
7. Honors / Research is to be completed simultaneously with a Major degree program.

Registration for Honors / Research:

1. The institution will announce courses offered under Honors / Research before the start of the semester.
2. The eligible and interested students shall apply through the HOD of the department. The whole process should be completed within one week before the start of every semester. Selected students shall be permitted to register for the courses under Honors / Research.
3. The selected students shall submit their willingness to the Principal through the department and the department shall maintain the record of students pursuing the Honors / Research.

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4. The students enrolled for the Honors/Research courses will be monitored continuously. An advisor/mentor from the department shall be assigned to monitor the progress.
5. There is no fee for registration of subjects for Honors / Research program offered in offline at the respective institutions.

14. Attendance Requirement

- I. A student shall be eligible to appear for the external examinations if he/she acquires a minimum of 40% attendance in each subject and 75% of attendance in aggregate of all the subjects. Condonation of shortage of attendance in aggregate up to 10% (65% and above and below 75%) in each semester may be granted by the College Academic Committee.
- II. Shortage of Attendance below 65% in aggregate shall in NO CASE be condoned.
- III. A stipulated fee shall be payable towards condonation of shortage of attendance.
- IV. Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examination of that class and their registration shall stand cancelled.
- V. A student will not be promoted to the next semester unless he satisfies the attendance requirements of the present semester. They may seek readmission for that semester from the date of commencement of class work.
- VI. If any candidate fulfils the attendance requirement in the present semester, he shall not be eligible for readmission into the same class.
- VII. If the learning is carried out in blended mode (both offline & online), then the total attendance of the student shall be calculated considering the offline and online attendance of the student.
- VIII. For induction programme attendance shall be maintained as per PCI/AICTE norms.

15. Promotion Rules:

The following academic requirements must be satisfied in addition to the attendance requirements.

- a. A student shall be **promoted from first year to second year** if he/she fulfils the **minimum attendance requirement** as per norms.
- b. A student will be **promoted from II to III year** if he/she fulfils the academic requirement of **securing 40% of the credits (any decimal fraction should be rounded off to lower digit)** up to in the subjects that have been studied up to III semester.

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- c. A student shall be **promoted from III year to IV year** if he/she fulfils the academic requirements of **securing 40% of the credits (any decimal fraction should be rounded off to lower digit)** in the subjects that have been studied up to V semester. And in case a student is detained for want of credits for a particular academic year by 12.2 & 12.3 above, the student may make up the credits through supplementary examinations and only after securing the required credits he/she shall be permitted to join in the V semester or VII semester respectively as the case may be.
- d. When a student is detained due to lack of credits/shortage of attendance he/she may be re-admitted when the semester is offered after fulfilment of academic regulations. In such case, he/she shall be in the academic regulations into which he/she is readmitted.

16. Grading

As a measure of the student's performance, a 10-point Absolute Grading System using the following Letter Grades and corresponding percentage of marks shall be followed: After each course is evaluated for 100 marks, the marks obtained in each course will be converted to a corresponding letter grade as given below, depending on the range in which the marks obtained by the student fall.

Structure of Grading of Academic Performance

Range in which the marks in the subject fall	Grade	Grade points Assigned
90 & above	Superior	10
80 - 89	A (Excellent)	9
70 - 79	B (Very Good)	8
60 - 69	C (Good)	7
50 - 59	D (Average)	6
40 - 49	E (Pass)	5
< 40	F (Fail)	0
Absent	Ab (Absent)	0

- a) A student obtaining Grade 'F' or Grade 'Ab' in a subject shall be considered failed and will be required to reappear for that subject when it is offered the next supplementary examination.
- b) For non-credit audit courses, "Satisfactory" or "Unsatisfactory" shall be indicated instead of the letter grade and this will not be counted for the computation of SGPA/CGPA/ Percentage.

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- c) **Computation of Semester Grade Point Average (SGPA) & Cumulative Grade Point Average (CGPA):**

The Semester Grade Point Average (SGPA) is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e.,

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

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

- d) The Cumulative Grade Point Average (CGPA) will be computed in the same manner considering all the courses undergone by a student over all the semesters of a program, i.e.,

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

where "S_i" is the SGPA of the i^{th} semester and C_i is the total number of credits up to that semester.

Both SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts. While computing the SGPA the subjects in which the student is awarded Zero grade points will also be included.

Grade Point: It is a numerical weight allotted to each letter grade on a 10-point scale. **Letter Grade:** It is an index of the performance of students in a said course. Grades are denoted by the letters S, A, B, C, D and F.

Award of Class

After a student has satisfied the requirements prescribed for the completion of the program and is eligible for the award of B. Pharm. Degree, he/she shall be placed in one of the following four classes:

Class Awarded	CGPA Secured
First Class with Distinction	≥ 7.5
First Class	≥ 6.5 < 7.5
Second Class	≥ 5.5 < 6.5
Pass Class	≥ 5 < 5.5

CGPA to Percentage conversion Formula: $(CGPA - 0.5) \times 10$

17. With-holding of Results



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If the candidate has any dues not paid to the university or if any case of indiscipline or malpractice is pending against him/her, the result of the candidate shall be withheld in such cases.

18. Multiple Entry / Exit Option

(a) Exit Policy:

The students can choose to exit the four-year programme at the end of first/second/third year.

i) **UG Certificate in (Field of study/discipline)** - Programme duration: First year (first two semesters) of the undergraduate programme, 52 credits followed by an additional exit 10credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/ apprenticeship that would help the candidates acquire job-ready competencies required to enter the workforce.

ii) **UG Diploma (in Field of study/discipline)** - Programme duration: First two years (first four semesters) of the undergraduate programme, 104 credits followed by an additional exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/ apprenticeship that would help the candidates acquire job-ready competencies required to enter the workforce.

iii) **Bachelor of Science (in Field of study/discipline)** - Programme duration: First three years (first six semesters) of the undergraduate programme, 160 credits.

(b) Entry Policy:

Modalities on multiple entry by the student into the B. Pharm. programme will be provided in due course of time.

Note: The Universities shall resolve any issues that may arise in the implementation of Multiple Entry and Exit policies from time to time and shall review the policies in the light of periodic changes brought by UGC, AICTE and State government.

19. Gap Year Concept:

Gap year concept for Student Entrepreneur in Residence is introduced and outstanding students who wish to pursue entrepreneurship / become entrepreneur are allowed to take a break of one year at any time after II year to pursue full-time entrepreneurship programme/to establish startups. This period may be extended to two years at the most and these two years would not be counted for the time for the maximum time for graduation. The principal of the respective college shall forward such proposals submitted by the students to the University. An evaluation committee constituted by the University shall evaluate the proposal submitted by the student and the committee shall decide whether to permit the student(s) to avail the Gap Year or not.

20. Transitory Regulations

Discontinued, detained, or failed candidates are eligible for readmission as and when the semester is offered after fulfilment of academic regulations. Candidates who have been detained for want of attendance or not fulfilled academic requirements or who have failed



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after having undergone the course in earlier regulations or have discontinued and wish to continue the course are eligible for admission into the unfinished semester from the date of commencement of class work with the same or equivalent subjects as and when subjects are offered, subject to Section 2 and they will follow the academic regulations into which they are readmitted.

Candidates who are permitted to avail Gap Year shall be eligible for re-joining into the succeeding year of their B. Pharm. from the date of commencement of class work, subject to Section 2 and they will follow the academic regulations into which they are readmitted.

21. Minimum Instruction Days for a Semester:

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

22. Medium of Instruction:

The medium of instruction of the entire B. Pharm. undergraduate programme (including examinations and project reports) will be in English only.

23. Student Transfers:

Student transfers shall be as per the guidelines issued by the Government of Andhra Pradesh and the Universities from time to time.

24. General Instructions:

- i. The academic regulations should be read as a whole for purpose of any interpretation.
- ii. Malpractices rules-nature and punishments are appended.
- iii. Where the words "he", "him", "his", occur in the regulations, they also include "she", "her", "hers", respectively.
- iv. In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- v. The Universities may change or amend the academic regulations or syllabi at any time and the changes or amendments shall be made applicable to all the students on rolls with effect from the dates notified by the Universities.
- vi. In the case of any doubt or ambiguity in the interpretation of the guidelines given, the decision of the Vice-Chancellor / Head of the institution is final.


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Pharm. D Academic Regulations 2017

1. Award of Pharm. D Degree

A student will be declared eligible for the award of the Pharm. D. Degree if he/she fulfils the following academic regulations:

i. 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) Pursue the course of study for not less than SIX academic years and is not more than TWELVE years.

c) Students, who fail to fulfil all the academic requirements for the award of the degree within TWELVE academic years from the year of their admission, shall forfeit their seat in Pharm D. course and their admission is cancelled.

d) To add prefix 'Dr.' before the name of the candidate while awarding the degree 'Doctor of Pharmacy' vide regulation 18 of the Pharm D regulation, 2008.

2. 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.

3. 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.

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COURSE STRUCTURE

First Year

S. No.	Subjects code	Name of the subject	No. of theory hours	No. of tutorial hours	No. of practical hours	Lab	S. No.	Subjects code
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)
1.1	17T00101	Human Anatomy and Physiology	3	1	3		1.7	17T00107
1.2	17T00102	Pharmaceutics	2	1	3		1.8	17T00108
1.3	17T00103	Medicinal Biochemistry	3	1	3		1.9	17T00109
1.4	17T00104	Pharmaceutical Organic Chemistry	3	1	3		2.0	17T00110
1.5	17T00105	Pharmaceutical Inorganic Chemistry	2	1	3		2.1	17T00111
1.6	17T00106	Remedial Mathematics/ Biology	3	1	3*		2.2	17T00112*
		Total hours	16	6 =(40)	18			

Second Year

S. No.	Subjects code	Name of the subject	No. of theory hours	No. of tutorial hours	No. of practical hours	Lab	S. No.	Subjects code
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)
2.1	17T00201	Pathophysiology	3	1	-			
2.2	17T00202	Pharmaceutical Microbiology	3	1	3		2.7	17T00207
2.3	17T00203	Pharmacognosy & Phytopharmaceuticals	3	1	3		2.8	17T00208
2.4	17T00204	Pharmacology-I	3	1				
2.5	17T00205	Community Pharmacy	2	1	-			
2.6	17T00206	Pharmacotherapeutics-I	3	1	3		2.9	17T00209
		Total hours	17	6 =(40)	9			



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Third Year

S. No.	Subjects code	Name of the subject	No. of theory hours	No. of tutorial hours	No. of practical hours	L a b	S. No.	Subjects code
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)
3.1	17T00301	Pharmacology-II	3	1	3		3.7	17T00307
3.2	17T00302	Pharmaceutical Analysis	3	1	3		3.8	17T00308
3.3	17T00303	Pharmacotherapeutics-II	3	1	3		3.9	17T00309
3.4	17T00304	Pharmaceutical Jurisprudence	2	-	-		-	-
3.5	17T00305	Medicinal Chemistry	3	1	3		4.0	17T00310
3.6	17T00306	Pharmaceutical Formulations	2	1	3		4.1	17T00311
		Total hours	16	5 =(40)	15			

Fouth Year

S. No.	Subjects code	Name of the subject	No. of theory hours	No. of tutorial hours	No. of practical hours	L a b	S. No.	Subjects code
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)
4.1	17T00401	Pharmacotherapeutics-III	3	1	3		4.7	17T00407
4.2	17T00402	Hospital Pharmacy	2	1	3		4.8	17T00408
4.3	17T00403	Clinical Pharmacy	3	1	3		4.9	17T00409
4.4	17T00404	Biostatistics & Research Methodology	2	1	-		-	-
4.5	17T00405	Biopharmaceutics & Pharmacokinetics	3	1	3		4.0	17T00410
4.6	17T00406	Clinical Toxicology	2	1	3			
		Total hours	15	6 =(33)	12			

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Fifth Year

S. No	Subjects code	Name of the subject	No. of theory hours	No. of Seminar hours	No. of hours of Hospital posting
(1)	(2)	(3)	(4)	(5)	(6)
5.1	17T00501	Clinical Research	3	1	-
5.2	17T00502	Pharmacoepidemiology and Pharmacoeconomics	3	1	-
5.3	17T00503	Clinical Pharmacokinetics &Pharmacotherapeutic Drug Monitoring	2	1	-
5.4	17T00504	Clerkship*	-	1	-
5.5	17T00505	Project work (Six Months)	-	-	20
		Total hours	08	4 =(32)	20

* Attending ward rounds on daily basis.

Note: The entire class work be spread for the entire Academic Year along with Project work and clerkship

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

4. Syllabus. – The syllabus for each subject of study in the said Tables shall be as specified in **Appendix -A** to these regulations.

5. 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.


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(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

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		-	-	-
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 =



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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			500 =

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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 Pharmacoconomics	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 arks – Thesis work

6. Attendance requirements:

A student shall be eligible to appear for University examinations if he acquires a minimum of 80% of attendance in aggregate of all the subjects in a year.

1. Condonation of shortage of attendance in aggregate from 70% and above and below 80% in each year may be granted by the College Academic Committee, on medical grounds/valid reasons.
2. Shortage of Attendance below 70% in aggregate shall in NO case be condoned.
3. Students whose shortage of attendance is not condoned in any year are not eligible to take their end examination of that class and their registration shall stand cancelled.


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4. A student will not be promoted to the next year unless he/she satisfies the attendance requirements of the present year, as applicable. They may seek readmission for that year when offered next.
5. A stipulated fee shall be payable towards condonation of shortage of attendance to the University.

7. 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.

8. 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).


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9. 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.

10. 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.

Note: At any time of the course study a student should not have failed in more than 3 subjects (excluding Remedial Mathematics/ Biology) to be eligible for promotion to next higher class.

11. Internship.—

(1) Internship is a phase of training wherein a student is expected to conduct actual practice of pharmacy and health care and acquire 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.

12. 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.

13. 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

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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.

14. 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.

15. 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.

16. 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;
- (ii) 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
- (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

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- (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.

17. 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.

18. 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)

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- 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.

APPENDIX A

INTERNSHIP

1. SPECIFIC OBJECTIVES :

- i) to provide patient care in cooperation with patients, prescribers, and other members of an interprofessional health care team based upon sound therapeutic principles and evidence-based data, taking into account relevant legal, ethical, social cultural, economic, and professional issues, emerging technologies, and evolving biomedical, pharmaceutical, social or behavioral or administrative, and clinical sciences that may impact therapeutic outcomes.
- ii) to manage and use resources of the health care system, in cooperation with patients, prescribers, other health care providers, and administrative and supportive personnel, to promote health; to provide, assess, and coordinate safe, accurate, and time-sensitive medication distribution; and to improve therapeutic outcomes of medication use.
- iii) to promote health improvement, wellness, and disease prevention in co-operation with patients, communities, at-risk population, and other members of an interprofessional team of health care providers.
- iv) to demonstrate skills in monitoring of the National Health Programmes and schemes, oriented to provide preventive and promotive health care services to the community.
- v) to develop leadership qualities to function effectively as a member of the health care team organised to deliver the health and family welfare services in existing socio-economic, political and cultural environment.
- vi) to communicate effectively with patients and the community.

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2. OTHER DETAILS :



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- i) All parts of the internship shall be done, as far as possible, in institutions in India. In case of any difficulties, the matter may be referred to the Pharmacy Council of India to be considered on merits.
- ii) Where an intern is posted to district hospital for training, there shall be a committee consisting of representatives of the college or university, and the district hospital administration, who shall regulate the training of such trainee. For such trainee a certificate of satisfactory completion of training shall be obtained from the relevant administrative authorities which shall be countersigned by the Principal or Dean of College.
- iii) Every candidate shall be required, after passing the final Pharm.D. or Pharm.D. (Post Baccalaureate) examination as the case may be to undergo compulsory rotational internship to the satisfaction of the College authorities and University concerned for a period of twelve months so as to be eligible for the award of the degree of Pharm.D. or Pharm.D. (Post Baccalaureate) as the case may be.

3. ASSESSMENT OF INTERNSHIP :

i) The intern shall maintain a record of work which is to be verified and certified by the preceptor (teacher practitioner) under whom he works. Apart from scrutiny of the record of work, assessment and evaluation of training shall be undertaken by an objective approach using situation tests in knowledge, skills and attitude during and at the end of the training. Based on the record of work and date of evaluation, the Dean or Principal shall issue certificate of satisfactory completion of training, following which the university shall award the degree or declare him eligible for it.

ii) Satisfactory completion of internship shall be determined on the basis of the following:-

- (1) Proficiency of knowledge required for each case management SCORE 0-5
- (2) The competency in skills expected for providing Clinical Pharmacy Services SCORE 0-5
- (3) Responsibility, punctuality, work up of case, involvement in patient care SCORE 0-5
- (4) Ability to work in a team (Behavior with other healthcare professionals including medical doctors, nursing staff and colleagues). SCORE 05
- (5) Initiative, participation in discussions, research aptitude. SCORE 05

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Poor	Fair	Below Average	Average	Above Average	Excellent
0	1	2	3	4	5



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A Score of less than 3 in any of above items will represent unsatisfactory completion of internship.

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APPENDIX - B

19. Internship

Specific Objectives:

- (i) To provide patient care in cooperation with patients, prescribers, and other members of an interprofessional health care team based upon sound therapeutic principles and evidence-based data, taking into account relevant legal, ethical, social cultural, economic, and professional issues, emerging technologies, and evolving biomedical, pharmaceutical, social or behavioral or administrative, and clinical sciences that may impact therapeutic outcomes.
- (ii) To manage and use resources of the health care system, in cooperation with patients, prescribers, other health care providers, and administrative and supportive personnel, to promote health; to provide, assess, and coordinate safe, accurate, and time-sensitive medication distribution; and to improve therapeutic outcomes of medication use.
- (iii) To promote health improvement, wellness, and disease prevention in co-operation with patients, communities, at-risk population, and other members of an interprofessional team of health care providers.
- (iv) To demonstrate skills in monitoring of the National Health Programmes and schemes, oriented to provide preventive and promotive health care services to the community.
- (v) To develop leadership qualities to function effectively as a member of the health care team organised to deliver the health and family welfare services in existing socio-economic, political and cultural environment.
- (vi) To communicate effectively with patients and the community.

Other details

- 1) All parts of the internship shall be done, as far as possible, in institutions in India. In case of any difficulties, the matter may be referred to the Pharmacy Council of India to be considered on merits.
- 2) Where an intern is posted to district hospital for training, there shall be a committee consisting of representatives of the college or university, and the district hospital administration, who shall regulate the training of such trainee. For such trainee a certificate of satisfactory completion of training shall be obtained from the relevant administrative authorities which shall be countersigned by the Principal or Dean of College.


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3) Every candidate shall be required, after passing the final Pharm.D. examination as the case may be to undergo compulsory rotational internship to the satisfaction of the College authorities and University concerned for a period of twelve months so as to be eligible for the award of the degree of Pharm.D. as the case may be.

Assessment of Internship

(i) Each intern student shall have a minimum of 80% attendance in every month, and a total of 80% at end for satisfactory completion of internship.

(ii) The intern shall maintain a record of work which is to be verified and certified by the preceptor (teacher practitioner) under whom he works. Apart from scrutiny of the record of work, assessment and evaluation of training shall be undertaken by an objective approach using situation tests in knowledge, skills and attitude during and at the end of the training. Based on the record of work and date of evaluation, the Dean or Principal shall issue certificate of satisfactory completion of training, following which the university shall award the degree or declare him eligible for it.

(iii) Satisfactory completion of internship shall be determined on the basis of the following:

1. Proficiency of knowledge required for each case management SCORE 0-5
2. The competency in skills expected for providing Clinical Pharmacy Services SCORE 0-5
3. Responsibility, punctuality, work up of case, involvement in patient care SCORE 0-5
4. Ability to work in a team (Behaviour with other healthcare professionals including medical doctors, nursing staff and colleagues). SCORE 0-5
5. Initiative, participation in discussions, research aptitude. SCORE 0-5

Poor	Fair	Below Average	Average	Above Average	Excellent
0	1	2	3	4	5

A Score of less than 3 in any of above items will represent unsatisfactory completion of internship.


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20. Transitory regulations:

Candidates who have been detained for want of attendance or not fulfilled academic requirements or who have failed after having undergone the course in earlier regulations or have discontinued and wish to continue the course are eligible for admission into the unfinished semester from the date of commencement of class work with the same or equivalent subjects as and when subjects are offered, subject to Section 2. and continue to be in the academic regulations they were first admitted.

21. With – holding of results:

If the candidate has not paid dues to the university or if any case of in-discipline or malpractice is pending against him, the result of the candidate shall be withheld and he will not be allowed/ promoted into the next higher semester. The issue of degree is liable to be withheld in such cases.

22. General:

- i. The academic regulations should be read as a whole for purpose of any interpretation.
- ii. Disciplinary action for Malpractice / improper conduct in examinations is appended
- iii. Where the words “he”, “him”, “his”, occur in the regulations, they include “she”, “her”, “hers”.
- iv. In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- v. The University may change or amend the academic regulations or syllabi at any time and the changes or amendments shall be made applicable to all the students on roles with effect from the dates notified by the University.

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Academic Regulations for the Award of Full Time M.Pharm. P.G. Degree (WITH EFFECT FROM THE ACADEMIC YEAR 2017-18 ONWARDS)

The Jawaharlal Nehru Technological University Anantapur shall confer M. Tech. Post Graduate degree to candidates who are admitted to the Master of Technology Programs and fulfill all the requirements for the award of the degree.

1.0 ELIGIBILITY FOR ADMISSIONS:

Admission to the above programmes shall be made subject to the eligibility, qualifications and specializations prescribed by the University for each programme, from time to time.

Admissions shall be made either on the basis of merit rank obtained by the qualified candidates at an Entrance Test conducted by the University or on the basis of GATE/PGECET score, subject to reservations prescribed by the University or Government policies from time to time.

2.0 COURSE WORK:

- 2.1 A Candidate after securing admission must pursue the M.Tech. course of study for Four semesters duration.
- 2.2 Each semester shall be of 20 weeks duration including all examinations.
- 2.3 A candidate admitted to a programme should complete it within a period equal to twice the prescribed duration of the programme from the date of admission.
- 2.4 The medium of instruction shall be English for all theory and practical courses, examinations, Seminar, Teaching Assignments, Comprehensive Viva-Voce and Project thesis/dissertation reports.

3.0 ATTENDANCE:

- 3.1 A candidate shall be deemed to have eligibility to write end semester examinations if he/she has put in atleast 75% of attendance on cumulative basis of all subjects/courses in the semester.
- 3.2 Condonation of shortage of attendance up to 10% i.e., from 65% and above and less than 75% may be given by the college on the recommendation of the Principal.
- 3.3 Condonation of shortage of attendance shall be granted only on genuine and valid reasons on representation by the candidate with supporting evidence.
- 3.4 If the candidate does not satisfy the attendance requirement he/she is detained for want of attendance and shall reregister for that semester. He/she shall not be promoted to the next semester.

4.0 EVALUATION:

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

- 4.1. There shall be five units in each of the theory subjects. For the theory subjects 60% of the marks will be for the End Examination and 40% of the marks will be for Internal Evaluation.

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- 4.2. Two Internal Examinations shall be held during the semester for 20 marks. First internal examination shall be conducted for half of the syllabus and second internal examination shall be conducted for remaining half of the syllabus. In each internal exam, a student shall answer all three questions in 2 hours of time without seeking any choice. Final Internal marks for a total of 20 marks shall be arrived at by considering the marks secured by the student in both the internal examinations with 70% weightage to the better internal exam and 30% to the other.
- 4.3. For the remaining 20 marks in internal evaluation, the University shall conduct one online examination.
- 4.4. The following pattern shall be followed in the End Examination.
 - a) Five questions shall be set from each of the five units with either/or type for 12 marks each.
 - b) All the questions have to be answered compulsorily.
 - c) Each question may consist of one, two or more bits.
- 4.5. For practical subjects, 60 marks shall be for the End Semester Examinations and 40 marks will be for internal evaluation based on the day to day performance.
- 4.6. For **Comprehensive Viva-Voce** and **Seminar** there will be an internal evaluation of 100 marks in each. A candidate has to secure a minimum of 50% (in each) to be declared successful. The assessment will be made by a board consisting of HOD and two senior internal experts at the end of **III** semester instruction.
- 4.7. For **Teaching Assignments** there will be an internal evaluation of 100 marks. A candidate has to secure a minimum of 50% to be declared successful. Student has to teach 10 Hours in his/her interesting subject/subjects in the entire III Semester instruction period for his juniors at PG level or Under Graduate students who are available on the campus. For each teaching hour maximum of 10 marks are allotted. The assessment will be made by the faculty allotted by the HOD.
- 4.8. Mandatory MOOCs course is introduced in III Semester as an elective without any credits. A student can choose any subject of his/her choice that has more than 30 hours duration from any MOOCs provider and should obtain satisfactory certificate. An Open Elective is introduced in III semester.
- 4.9. A candidate shall be deemed to have secured the minimum academic requirement in a subject if he secures a minimum of 40% of marks in the End Examination and a minimum aggregate of 50% of the total marks in the End Semester Examination and Internal Evaluation taken together.
- 4.10. In case the candidate does not secure the minimum academic requirement in any of the subjects (as specified in 4.9.) he/she has to reappear for the Semester Examination either supplementary or regular in that subject, or repeat the course when next offered or do any other specified subject as may be required.

5.0 RE-REGISTRATION FOR IMPROVEMENT OF INTERNAL EVALUATION MARKS:

Following are the conditions to avail the benefit of improvement of internal evaluation marks.



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- 5.1 The candidate should have completed the course work and obtained examinations results for **I, II and III** semesters.
- 5.2 He should have passed all the subjects for which the Internal Evaluation marks secured are more than 50%.
- 5.3 Out of the subjects the candidate has failed in the examination due to Internal Evaluation marks secured being less than 50%, the candidate shall be given one chance for each Theory subject and for a maximum of **three** Theory subjects for Improvement of Internal evaluation marks.
- 5.4 The candidate has to re-register for the chosen subjects and fulfill the academic requirements.
- 5.5 For each subject, the candidate has to pay a fee equivalent to one third of the semester tuition fee and the amount is to be remitted in the form of D.D. in favour of the Registrar, JNTUA payable at Ananthapuramu along with the requisition through the Principal of the respective college.
- 5.6 In the event of availing the Improvement of Internal evaluation marks, the internal evaluation marks as well as the End Examinations marks secured in the previous attempt(s) for the reregistered subjects stand cancelled.

6.0 EVALUATION OF PROJECT WORK:

Every candidate shall be required to submit thesis or dissertation after taking up a topic approved by the college/institute.

- 6.1 **Registration of Project work:** A candidate is permitted to register for the project work after satisfying the attendance requirement of all the courses (theory and practical courses of I & II Semester)
- 6.2 An Internal Departmental Committee (I.D.C) consisting of HOD, Supervisor and one internal senior expert shall monitor the progress of the project work.
- 6.3 The **first phase of the project work** on the project shall be initiated in the third semester and **second phase of the project work will be** continued in the final semester i.e., fourth semester. The duration of the project work is for two semesters. The candidate can submit Project thesis with the approval of I.D.C. after 36 weeks from the date of registration at the earliest and one calendar year from the date of registration for the project work. Extension of time within the total permissible limit for completing the programme is to be obtained from the Head of the Institution.
- 6.4 The student must submit status report by giving seminars in three different phases (**one in III semester and another two in IV semester**) during the project work period. These seminar reports must be approved by the I.D.C before submission of the Project Report.
- 6.5 A candidate shall be allowed to submit the thesis/dissertation only after obtaining plagiarism report with less than 30% and passing in all the prescribed subjects (both theory and practical), and then take viva-voce examination of the project. The viva-voce examination may be conducted once in two months for all the candidates submitted during that period.
- 6.6 Three copies of the Thesis/Dissertation certified in the prescribed format by the supervisor & HOD shall be presented to the HOD. One copy is to be forwarded to the University and one copy to be sent to the examiner.

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- 6.7 The college shall submit a panel of three experts for a maximum of **five** students at a time. However, the thesis/dissertation will be adjudicated by one examiner nominated by the University.
- 6.8 If the report of the examiner is favorable viva-voce examination shall be conducted by a board consisting of the Supervisor, Head of the Department and the examiner who adjudicated the thesis/dissertation. The board shall jointly report candidates work as:

- | | |
|---------------------|---------|
| 1. Satisfactory | Grade A |
| 2. Not satisfactory | Grade B |

If the report of the viva-voce is not satisfactory (Grade B) the candidate will retake the viva-voce examination after three months. If he fails to get a satisfactory report at the second viva-voce examination he will not be eligible for the award of the degree unless the candidate is permitted to revise and resubmit the thesis.

7.0 GRADING

After each subject is evaluated for 100 marks, the marks obtained in each subject will be converted to a corresponding letter grade as given below, depending on the range in which the marks obtained by the student fall.

Letter Grade	Marks Range	Grade Point
S	91-100	10
A	81-90	9
B	70-80	8
C	60-69	7
D	55-59	6
E	50-54	5
F	<50	0
Absent	Ab (Absent)	0

A student obtaining Grade F shall be considered failed and will be required to reappear for that subject when the next supplementary examination offered.

Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

The Semester Grade Point Average (SGPA) is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e.

$$SGPA = \frac{\sum_{i=1}^n (C_i \times G_i)}{\sum_{i=1}^n C_i}$$

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

The Cumulative Grade Point Average (CGPA) will be computed in the same manner taking into account all the courses undergone by a student over all the semesters of a program, i.e.

$$CGPA = \frac{\sum_{i=1}^n (C_i \times S_i)}{\sum_{i=1}^n C_i}$$

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

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

While computing the SGPA the subjects in which the student is awarded Zero grade points will also be included.

Grade Point: It is a numerical weight allotted to each letter grade on a 10-point scale.

Letter Grade: It is an index of the performance of students in a said course. Grades are denoted by letters as mentioned in the above table.

8.0 AWARD OF DEGREE AND CLASS:

8.1 A candidate shall be eligible for the award of respective degree if he/she fulfils the following academic regulations.

- i. Pursues a course of study for not less than two academic years and in not more than four academic years.
- ii. Registers for 78 credits and secures all 78 credits.

8.2 A candidate shall be eligible for the award of class if he/she satisfies the minimum academic requirements in every subject and secures 'satisfactory' grade report on his/her project thesis viva-voce. Based on overall percentage of marks obtained, the following class is awarded.

Class Awarded	CGPA Secured
First class with Distinction	≥ 8
First class	≥ 7 and < 8
Second class	≥ 5 and < 7

9.0 WITH – HOLDING OF RESULTS:

If the candidate has not paid dues to the university or if any case of in-discipline is pending against him, the result of the candidate shall be withheld and he will not be allowed/promoted into the next higher semester. The issue of degree is liable to be withheld in such cases.

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10.0 TRANSITORY REGULATIONS:

Candidates who have discontinued or have been detained for want of attendance or who have failed after having undergone the course in earlier regulations and wish to continue the course are eligible for admission into the unfinished semester from the date of commencement of class work with the same or equivalent subjects as and when subjects are offered, subject to 4.10 and 2.3 sections. Whereas they continue to be in the academic regulations they were first admitted.

11.0 GENERAL:

- i. The academic regulations should be read as a whole for purpose of any interpretation.
- ii. Disciplinary action for Malpractice/improper conduct in examinations is appended.
- iii. There shall be no places transfer within the constituent colleges and affiliated colleges of Jawaharlal Nehru Technological University Anantapur.
- iv. Where the words "he", "him", "his", occur in the regulations, they include "she", "her", "hers".
- v. In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- vi. The University may change or amend the academic regulations or syllabi at any time and the changes or amendments shall be made applicable to all the students on rolls with effect from the dates notified by the University.

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Academic Regulations of M.Pharmacy (Full Time) Programme

(Effective for the students admitted into I year from the Academic Year 2021-22 and onwards)

Jawaharlal Nehru Technological University Anantapur (JNTUA) offers **Two Years (Four Semesters)** full-time Master of Pharmacy (M.Pharm.) Post Graduate Degree programme, under Choice Based Credit System (CBCS) with different specializations at its constituent unit, OTPRI and non-autonomous affiliated colleges.

The Jawaharlal Nehru Technological University Anantapur shall confer M.Pharm. degree on candidates who are admitted to the programme and fulfill all the requirements for the award of the degree.

1. Award of the M.Pharm. Degree

A student will be declared eligible for the award of the M.Pharm. degree if he/she fulfils the following:

1.1 Pursues a course of study for not less than two academic years and not more than four academic years.

1.2 Registers for 95 credits and secures all 95 credits.

2. Students, who fail to fulfil all the academic requirements for the award of the degree within four academic years from the year of their admission, shall forfeit their seat in M.Pharm. course and their admission stands cancelled.

3. Programme of Study:

The following M.Pharm. specializations are offered at its constituent (non- autonomous) unit, OTPRI & affiliated (non-autonomous) colleges:

S.No.	Discipline	Name of the Specialization	Code
1.	Master of Pharmacy	Pharmacology	
2.		Pharmaceutical Chemistry	
3.		Pharmaceutics	
4.		Pharmaceutical Analysis and Quality Assurance	
5.		Pharmacognosy	
6.		Industrial Pharmacy	
7.		Pharmaceutical Technology	
8.		Pharmaceutical Analysis	
9.		Pharmacy Practice	
10.		Pharmaceutics-Drug Regulatory Affairs	
11.		Pharmaceutical Quality Assurance	

and any other specializations as approved by AICTE/PCI/University from time to time.

4. Eligibility for Admissions:

4.1 Admission to the M.Pharm. programme shall be made subject to the eligibility, qualifications and specialization prescribed by the A.P. State Government/University for each programme, from time to time.

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4.2 Admissions 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 A.P. State Government (APPGE CET) for M.Pharm. programmes/an entrance test conducted by university/ on the basis of any other exams approved by the University, subject to reservations as laid down by the Govt. from time to time.

5. Programme related terms:

5.1 **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/Tutorial) or two hours of practical work/field work per week.

Credit definition:

1 Hr. Lecture (L) per week	1 credit
1 Hr. Tutorial (T) per week	1 credit
1 Hr. Practical (P) per week	0.5 credit

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

5.3 **Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the prescribed courses.

6. Programme Pattern:

6.1 Total duration of the of M.Pharm. programme is two academic years

6.2 Each academic year of study is divided into two semesters.

6.3 Each Semester shall be of 22 weeks duration (inclusive of Examinations), with a minimum of 90 instructional days per semester.

6.4 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.

6.5 The medium of instruction of the programme (including examinations and project reports) will be in English only.

6.6 All subjects/courses offered for the M.Pharm. programme are broadly classified as follows:

S.No.	Broad Course Classification	Course Category	Description
1.	Core Courses	Foundational & Professional Core Courses (PC)	Includes subjects related to the parent discipline.
2.	Elective Courses	Electives	Includes elective subjects related to the parent discipline/inter-disciplinary subjects or subjects in an area outside the parent discipline which are of importance in the context of special



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			skill development.
3.		Research methodology & IPR	To understand importance and process of creation of patents through research.
		Seminar	Ensures preparedness of students to undertake major projects/Dissertation, based on core contents related to specialization
		Cocurricular Activities/Journal Club	Attending conferences, scientific presentations and other scholarly activities
		Dissertation	Major Project
4.	Audit Courses	Mandatory noncredit Courses	Covering subjects of developing desired attitude among the learners is on the line of initiatives such as Unnat Bharat Abhiyan, Yoga, Value education etc

- 6.7 The college shall take measures to implement Virtual Labs (<https://www.vlab.co.in>) which provide remote access to labs in various disciplines of science and will help student in learning basic and advanced concept through remote experimentation. Student shall be made to work on virtual lab experiments during the regular labs.
- 6.8 A faculty advisor/mentor shall be assigned to each specialization to advise students on the programme, its Course Structure and Curriculum, Choice of Courses, based on his competence, progress, pre-requisites and interest.
- 6.9 Preferably 25% course work for the theory courses in every semester shall be conducted in the blended mode of learning.

7. Attendance Requirements:

- 7.1 A student shall be eligible to appear for the University external examinations if he/she acquires i) a minimum of 50% attendance in each course and ii) 75% of attendance in aggregate of all the courses.
- 7.2 Condonation of shortage of attendance in aggregate up to 10% (65% and above and below 75%) in each semester may be granted by the College Academic Committee.
- 7.3 Condonation of shortage of attendance shall be granted only on genuine and valid reasons on representation by the candidate with supporting evidence.
- 7.4 Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examination of that class.
- 7.5 A stipulated fee shall be payable towards condonation of shortage of attendance.
- 7.6 A student will not be promoted to the next semester unless he satisfies the attendance requirements of the present semester. They may seek re-admission into that semester when offered next.
- 7.7 If any candidate fulfils the attendance requirement in the present semester, he shall not be eligible for readmission into the same class.

Principal
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- 7.8 If the learning is carried out in blended mode (both offline & online), then the total attendance of the student shall be calculated considering the offline and online attendance of the student.

8. 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 for theory and 100 marks for practical, based on Internal Evaluation and End Semester Examination.

- 8.1 There shall be five units in each of the theory subjects. For the theory subjects 60 marks will be for the End Examination and 40 marks will be for Internal Evaluation.
- 8.2 Two Internal Examinations shall be conducted for 30 marks each, one in the middle of the Semester and the other immediately after the completion of instruction. First mid examination shall be conducted for I & II units of the syllabus and second mid examination for III, IV & V units. Each mid exam shall be conducted for a total duration of 120 minutes with 3 questions (without choice) each question for 10 marks. Final Internal marks for a total of 30 marks shall be arrived at by considering the marks secured by the student in both the internal examinations with 80% weightage to the better internal exam and 20% to the other. There shall be an online examination (TWO) conducted during the respective mid examinations by the college for the remaining 10 marks with 20 objective questions.
- 8.3 The following pattern shall be followed in the End Examination:
- Five questions shall be set from each of the five units with either/or type for 12 marks each.
 - All the questions have to be answered compulsorily.
 - Each question may consist of one, two or more bits.
- 8.4 For practical subjects, 60 marks shall be for the End Semester Examinations and 40 marks will be for internal evaluation based on the day-to-day performance. The internal evaluation based on the day-to-day work-10 marks, record- 10 marks and the remaining 20 marks to be awarded by conducting an internal laboratory test. The end examination shall be conducted by the examiners, with a breakup mark of Procedure-10, Experimentation-25, Results-10, Viva-voce-15.
- 8.5 There shall be a **Seminar/Assignment** for internal evaluation of 100 marks. A student under the supervision of a faculty member, shall collect the literature on a topic and critically review the literature and submit it to the department in a report form and shall make an oral presentation before the Project Review Committee consisting of Head of the Department, supervisor/mentor and two other faculty members of the department. The student 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 same as and when supplementary examinations are conducted. The seminar shall be conducted anytime during the



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semester as per the convenience of the Project Review Committee and students. There shall be no external examination for Technical Seminar.

- 8.6 For Teaching Practice/Assignments there will be an internal evaluation of 100 marks. A candidate has to secure a minimum of 50% to be declared successful. Student has to teach 10 Hours in his/her interesting subject/subjects in the entire III Semester instruction period for his juniors at PG level or Undergraduate students who are available on the campus. For each teaching hour maximum of 10 marks are allotted. The assessment will be made by the faculty allotted by the HoD.
- 8.7 There shall be Mandatory **Audit courses** for zero credits. There is no external examination for audit courses. However, attendance shall be considered while calculating aggregate attendance and student shall be declared to have passed the mandatory course only when he/she secures 50% or more in the internal examinations. In case, the student fails, a re-examination shall be conducted for failed candidates for 40 marks every six months/semester satisfying the conditions mentioned in item 1 & 2 of the regulations.
- 8.8 There shall be **Comprehensive Viva-Voce** in III semester. This will test the student's learning and understanding during the course of their specialization. The Comprehensive viva-voce will be conducted by the committee consisting of Head of the Department and two faculty members related to the specialization. The Comprehensive Viva-Voce shall be evaluated for 100 marks by the committee. There are no internal marks for the Comprehensive Viva-Voce. A student shall acquire 2 credits assigned to the Comprehensive Viva-voce when he/she secures 50% or more marks for the total of 100 marks. In case, if a student fails in Comprehensive Viva-voce he/she shall reappear as and when III semester supplementary examinations are conducted.
- 8.9 A candidate shall be deemed to have secured the minimum academic requirement in a subject if he secures a minimum of 40% of marks in the End Examination and a minimum aggregate of 50% of the total marks in the End Semester Examination and Internal Evaluation taken together.
- 8.10 In case the candidate does not secure the minimum academic requirement in any of the subjects he/she has to reappear for the Semester Examination either supplementary or regular in that subject or repeat the course when next offered or do any other specified subject as may be required.
- 8.11 The laboratory records and mid semester test papers shall be preserved for a minimum of 3 years in the respective institutions as per the University norms and shall be produced to the Committees of the University as and when the same are asked for.

9.0 Credit Transfer Policy

As per University Grants Commission (Credit Framework for Online Learning Courses through SWAYAM) Regulation, 2016, the Institute shall allow up to a **maximum of 40% of**

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the total courses being offered in a particular Programme in a semester through the Online Learning courses through SWAYAM.

9.1 The Institute shall offer credit mobility for MOOCs and give the equivalent credit weightage to the students for the credits earned through online learning courses through SWAYAM platform.

9.2 The online learning courses available on the SWAYAM platform will be considered for credit transfer. SWAYAM course credits are as specified in the platform

9.3 Student registration for the MOOCs shall be only through the institution, it is mandatory for the student to share necessary information with the institution.

9.4 The institution shall select the courses to be permitted for credit transfer through SWAYAM. However, while selecting courses in the online platform institution would essentially avoid the courses offered through the curriculum in the offline mode.

9.5 The institution shall notify at the beginning of semester the list of the online learning courses eligible for credit transfer in the forthcoming Semester.

9.6 The institution shall also ensure that the student has to complete the course and produce the course completion certificate as per the academic schedule given for the regular courses in that semester

9.7 The institution shall designate a faculty member as a Mentor for each course to guide the students from registration till completion of the credit course.

9.8 The Institute shall ensure no overlap of SWAYAM MOOC exams with that of the examination schedule. In case of delay in SWAYAM results, the university will re-issue the marks sheet for such students.

9.9 Student pursuing courses under MOOCs shall acquire the required credits only after successful completion of the course and submitting a certificate issued by the competent authority along with the percentage of marks and grades.

9.10 The Department shall submit the following to the examination section:

9.10.1 List of students who have passed MOOC courses in the current semester along with the certificates of completion.

9.10.2 Undertaking form filled by the students for credit transfer.

9.11 The university shall resolve any issues that may arise in the implementation of this policy from time to time and shall review its credit transfer policy in the light of periodic changes brought by UGC, SWAYAM, NPTEL and state govt.

Note: Students shall also be permitted to taor MOOCs offered through online platforms other than SWAYAM NPTEL. In such cases, credit transfer shall be permitted only after

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seeking approval of the University at least three months prior to the commencement of the semester.

10. Re-registration for Improvement of Internal Evaluation Marks

- 10.1. A candidate shall be given one chance to re-register for each subject provided the internal marks secured by a candidate are less than 50% and has failed in the end examination
- 10.2. The candidate should have completed the course work and obtained examinations results for I, II and III semesters.
- 10.3. The candidate should have passed all the subjects for which the Internal Evaluation marks secured are more than 50%.
- 10.4. Out of the subjects the candidate has failed in the examination due to Internal Evaluation marks secured being less than 50%, the candidate shall be given one chance for each Theory subject and for a maximum of three Theory subjects for Improvement of Internal evaluation marks.
- 10.5. The candidate has to re-register for the chosen subjects and fulfill the academic requirements.
- 10.6. For reregistration the candidates have to apply to the University through the college by paying the requisite fees and get approval from the University before the start of the semester in which re-registration is required
- 10.7. In the event of availing the Improvement of Internal evaluation marks, the internal evaluation marks as well as the End Examinations marks secured in the previous attempt(s) for the reregistered subjects stand cancelled.

11. Evaluation of Project/Research Work

The Project work shall be initiated at the beginning of the III Semester and the duration of the Project is of two semesters. **Evaluation of Project work is for 300 marks with 200 marks for internal evaluation and 100 marks for external evaluation.**

Internal evaluation of the **Project Work – I & Project Work – II** in III & IV semesters respectively shall be **for 100 marks each.** External evaluation of Final Project work **viva voce** in IV semester shall be **for 100 marks.**

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A Project Review Committee (PRC) shall be constituted with the Head of the Department as Chairperson, Project Supervisor and one faculty member of the department offering the M.Pharm. programme.

- 11.1. A candidate is permitted to register for the Project Work in III Semester after satisfying the attendance requirement in all the subjects, both theory and laboratory (in I & II semesters).
- 11.2. A candidate is permitted to submit Project dissertation with the approval of PRC.
- 11.3. The candidate has to pass all the theory, practical and other courses before submission of the Thesis.
- 11.4. Project work shall be carried out under the supervision of teacher in the parent department concerned.
- 11.5. A candidate shall be permitted to work on the project in an industry/research organization on the recommendation of the Head of the Department. In such cases, one of the teachers from the department concerned would be the internal guide and an expert from the industry/ research organization concerned shall act as co-supervisor/ external guide. It is mandatory for the candidate to make full disclosure of all data/results on which they wish to base their dissertation. They cannot claim confidentiality simply because it would come into conflict with the Industry's or R&D laboratory's own interests. A certificate from the external supervisor is to be included in the dissertation.
- 11.6. Continuous assessment of Project Work - I and Project Work – II in III & IV semesters respectively will be monitored by the PRC.
- 11.7. The candidate shall submit status report by giving seminars in **three different phases (two in III semester and one in IV semester)** during the project work period. These seminar reports must be approved by the PRC before submission of the Project Thesis.
- 11.8. After registration, a candidate must 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 PRC for approval within four weeks from the commencement of III Semester. Only after obtaining the approval of the PRC can the student initiate the project work.
- 11.9. The **Project Work Review - II in III semester 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

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the Problem Definition, Objectives, Scope of Work, Literature Survey in the same domain and progress of the Project Work.

- 11.10. A candidate has to secure a minimum of 50% of marks to be declared successful in Project Work Review - II. Only after successful completion of Project Work Review – II, candidate shall be permitted for Project Work Review – III in IV Semester. The unsuccessful students in Project Work Review - II shall reappear for it as and when supplementary examinations are conducted.
- 11.11. The **Project Work Review - III in IV semester 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 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 after a month.
- 11.12. For the approval of PRC the candidate shall submit the draft copy of dissertation to the Head of the Department and make an oral presentation before the PRC.
- 11.13. After approval from the PRC, the students are required to submit a report showing that the **plagiarism is within 30%**. The dissertation report will be accepted only when the plagiarism is within 30%, which shall be submitted along with the dissertation report.
- 11.14. **Research paper related to the Project Work** shall be **published in conference proceedings/UGC recognized journal**. A copy of the published research paper shall be attached to the dissertation.
- 11.15. After successful plagiarism check and publication of research paper, three copies of the dissertation certified by the supervisor and HOD shall be submitted to the College.
- 11.16. The dissertation shall be adjudicated by an external examiner selected by the Autonomous Institute. For this, the Principal of the College shall submit a panel of three examiners as submitted by the supervisor concerned and department head for each student. However, the dissertation will be adjudicated by one examiner nominated by the University.
- 11.17. If the report of the examiner is not satisfactory, the candidate shall revise and resubmit the dissertation, in the time frame as decided by the PRC. If report of the examiner is unfavorable again, the thesis shall be summarily rejected. The

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- candidate has to reregister for the project and complete the project within the stipulated time after taking the approval from the University.
- 11.18. 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 exam.
- 11.19. The Project Viva voce examinations shall be conducted by a board consisting of the Supervisor, Head of the Department and the external examiner who has adjudicated the dissertation. For **Dissertation Evaluation (Viva voce) in IV Sem**, there are **external marks of 100** and it is evaluated by external examiner. The candidate has to secure a minimum of 50% marks in Viva voce exam.
- 11.20. If he fails to fulfill the requirements as specified, he will reappear for the Project 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.

12. Credits for Co-curricular Activities

The credits assigned for co-curricular activities shall be given by the principals of the colleges and the same shall be submitted.

A Student shall earn 02 credits under the head of co-curricular activities, viz., attending Conference, Scientific Presentations and Other Scholarly Activities.

Following are the guidelines for awarding Credits for Co-curricular Activities

Name of the Activity	Maximum Credits / Activity
Participation in National Level Seminar/ Conference / Workshop / Training programs (related to the specialization of the student)	1
Participation in International Level Seminar / Conference / workshop/ Training programs held outside India (related to the specialization of the student)	2
Academic Award/Research Award from State Level/National Agencies	1
Academic Award/Research Award from International Agencies	2
Research / Review Publication in National Journals (Indexed in Scopus / Web of Science)	1
Research / Review Publication in International Journals with Editorial board outside India (Indexed in Scopus / Web of Science)	2

Note:

- i. Credit shall be awarded only for the first author. Certificate of attendance and participation in a Conference/Seminar is to be submitted for awarding credit.

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- ii. Certificate of attendance and participation in workshops and training programs (Internal or External) is to be submitted for awarding credit. The total duration should be at least one week.
- iii. Participation in any activity shall be permitted only once for acquiring required credits under cocurricular activities

13. Grading

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

After each course is evaluated for 100 marks, the marks obtained in each course will be converted to a corresponding letter grade as given below, depending on the range in which the marks obtained by the student fall.

Structure of Grading of Academic Performance

Range in which the marks in the subject fall	Grade	Grade points Assigned
≥ 90	S (Superior)	10
$\geq 80 < 90$	A (Excellent)	9
$\geq 70 < 80$	B (Very Good)	8
$\geq 60 < 70$	C (Good)	7
$\geq 50 < 60$	D (Pass)	6
< 50	F (Fail)	0
Absent	Ab (Absent)	0

13.1. A student obtaining Grade 'F' or Grade 'Ab' in a subject shall be considered failed and will be required to reappear for that subject when it is offered the next supplementary examination.

13.2. For non-credit audit courses, "Satisfactory" or "Unsatisfactory" shall be indicated instead of the letter grade and this will not be counted for the computation of SGPA/CGPA/ Percentage.

Computation of Semester Grade Point Average (SGPA) & Cumulative Grade Point Average (CGPA):

The Semester Grade Point Average (SGPA) is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e.,

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

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

13.3. The Cumulative Grade Point Average (CGPA) will be computed in the same manner considering all the courses undergone by a student over all the semesters of a program, i.e.,

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

where “ S_i ” is the SGPA of the i^{th} semester and C_i is the total number of credits up to that semester.

Both SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts. While computing the SGPA the subjects in which the student is awarded Zero grade points will also be included.

Grade Point: It is a numerical weight allotted to each letter grade on a 10-point scale. **Letter Grade:** It is an index of the performance of students in a said course. Grades are denoted by the letters S, A, B, C, D and F.

14. Award of Class

After a student has satisfied the requirements prescribed for the completion of the program and is eligible for the award of M. Pharm. Degree, he/she shall be placed in one of the following classes:

Class Awarded	Percentage of Marks to be secured
First Class with Distinction	$\geq 70\%$
First Class	$< 70\% \geq 60\%$
Pass Class	$< 60\% \geq 50\%$

15. Exit Policy: The student shall be permitted to exit with a PG Diploma based on his/her request to the university through the respective institution at the end of first year subject to passing all the courses in first year. The University shall resolve any issues that may arise in the implementation of this policy from time to time and shall review the policy in the light of periodic changes brought by UGC, PCI, AICTE and State government.

16. With-holding of Results

If the candidate has any case of in-discipline pending against him, the result of the candidate shall be withheld, and he will not be allowed promoted into the next higher semester. The issue of degree is liable to be withheld in such cases

17. Transitory Regulations

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Discontinued, detained, or failed candidates are eligible for readmission as and when the semester is offered after fulfilment of academic regulations. Candidates who have been detained for want of attendance or not fulfilled academic requirements or who have failed after having undergone the course in earlier regulations or have discontinued and wish to continue the course are eligible for admission into the unfinished semester from the date of commencement of class work with the same or equivalent subjects as and when subjects are offered, subject to Section 2 and they will follow the academic regulations into which they are readmitted.

18. General

- 18.1. The academic regulations should be read as a whole for purpose of any interpretation.
- 18.2. Disciplinary action for Malpractice/improper conduct in examinations is appended.
- 18.3. There shall be no places transfer within the constituent colleges and affiliated colleges of Jawaharlal Nehru Technological University Anantapur.
- 18.4. Where the words "he", "him", "his", occur in the regulations, they include "she", "her", "hers".
- 18.5. In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- 18.6. The University may change or amend the academic regulations or syllabi at any time and the changes or amendments shall be made applicable to all the students on rolls with effect from the dates notified by the University.


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