CIE procedure

Kakatiya University, Warangal



Academic Regulations for the Bachelor of Pharmacy B.Pharm) Four Years Course From the academic year 2017-2018 onwards



PRINCIPAL

Balaji Institute of Pharmaceutical Sciences

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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 2017-18. The regulations framed are subject to modifications from time to time by Pharmacy Council of India.

2. Minimum qualification for admission

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

6. Attendance and progress

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

7. Program/Course credit structure

As per the philosophy of Credit Based Semester System, certain quantum of academic work viz. theory classes, tutorial hours, practical classes, etc. are measured in terms of credits. On satisfactory completion of the courses, a candidate earns credits. The amount of credit associated with a course is dependent upon the number of hours of instruction per week in that course. Similarly, the credit associated with any of the other academic, co/extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week.

Credit assignment

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.

Minimum credit requirements

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

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

8. Academic work

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

9. Course of study

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

Table-I: Course of study for semester I

Course code	Name of the course	No. of hours	Tuto rial	Credit points
BP101T	Human Anatomy and Physiology I— Theory	3	1	4
BP102T	Pharmaceutical Analysis I - Theory	3	1	4
BP103T	Pharmaceutics I – Theory	3	1	4
BP104T	Pharmaceutical Inorganic Chemistry – Theory	3	1	4
BP105T	Communication skills – Theory *	2	-	2
BP106RBT BP106RMT	Remedial Biology/ Remedial Mathematics – Theory*	2	-	2
BP107P	Human Anatomy and Physiology – Practical	4	-	2
BP108P	Pharmaceutical Analysis I - Practical	4	-	2
BP109P	Pharmaceutics I – Practical	4	=	2
BP110P	Pharmaceutical Inorganic Chemistry – Practical	4	2	2
BP111P	Communication skills – Practical*	2	(=	1
BP112RBP	Remedial Biology – Practical*	2	-	1
	Total	32/34 ⁸ /36 [#]	4	27/29 ⁸ /30

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

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

^{*} Non University Examination (NUE)

Table-II: Course of study for semester II

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

^{*}Non University Examination (NUE)

Table-III: Course of study for semester III

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

Table-IV: Course of study for semester IV

Course	Name of the course	No. of hours	Tutorial	Credit points
BP401T	Pharmaceutical Organic Chemistry III- Theory	3	1	4
BP402T	Medicinal Chemistry I – Theory	3	1	4
BP403T	Physical Pharmaceutics II – Theory	3	1	4
BP404T	Pharmacology I – Theory	3	1	4
BP405T	Pharmacognosy and Phytochemistry I- Theory	3	1	4
BP406P	Medicinal Chemistry I – Practical	4	-	2
BP407P	Physical Pharmaceutics II – Practical	4		2
BP408P	Pharmacology I – Practical	4	-	2
BP409P	Pharmacognosy and Phytochemistry I – Practical	4	20	2
	Total	31	5	28

Table-V: Course of study for semester V

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

Table-VI: Course of study for semester VI

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

Table-VII: Course of study for semester VII

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

^{*} Non University Examination (NUE)

Table-VIII: Course of study for semester VIII

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP801T	Biostatistics and Research Methodology	3	1	4
BP802T	Social and Preventive Pharmacy	3	1	4
BP803ET	Elective – 1			
I	Pharmaceutical Marketing			
II	Pharmaceutical Regulatory Science			
III	Pharmacovigilance			
	Quality Control and Standardizations of		1	
IV	Herbals	3		4
V	Computer Aided Drug Design			
BP804ET	Elective – 2			
I	Cell and Molecular Biology			
II	Cosmetic Science	3	1	4
III	Experimental Pharmacology		1	
IV	Advanced Instrumentation Techniques		1	
V	Dietary Supplements and Nutraceuticals			
BP805PW	Project Work	12	• •	6
	Total	24	4	22

Table-IX: Semester wise credits distribution

Semester	Credit Points
I	27/29 ^{\$} /30 [#]
II I	29
III	24
IV	- 28
V	26
VI	30
VII	24
VIII	22
Extracurricular/ Co curricular activities	01*
Total credit points for the program	211/213 ^{\$} /214 [#]

^{*} 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 university from time to time.

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

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

10. Program Committee

- 1. The B. Pharm. program shall have a Program Committee constituted by the Head of the institution in consultation with all the Heads of the departments.
- 2. The composition of the Program Committee shall be as follows:

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

- 3. Duties of the Program Committee:
 - i. Periodically reviewing the progress of the classes.
 - ii. Discussing the problems concerning curriculum, syllabus and the conduct of
 - 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.
 - The Program Committee shall meet at least thrice in a semester preferably at the end of each Sessionalexam (Internal Assessment) and before the end semester exam.

11. Examinations/Assessments

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

End semester examinations

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

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

Course			Internal Assessment	sessment		End Semester Exams	ter Exams	Total
code	Name of the course	Continuous	Sessional Exams	Exams	Total	Morke	Duration	Marks
		Mode	Marks	Duration	Lotal	MAIN	Mulation	
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	1.11	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	1Hr	15	35	1.5 Hrs	20
BP107P	Human Anatomy and Physiology – Practical	5	10	4 Hrs	15	35	4 Hrs	20
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
BPIIIP	Communication skills – Practical*	. 5	5	2 Hrs	10	1.5	2 Hrs	25
BP112RBP	Remedial Biology – Practical*	5	5.	2 Hrs	10	15	2 Hrs	25
	Total	10/158/80#	115/125 ⁸ /130 [#]	23/24 ⁵ /26 [#] Hrs	185/2008/210#	490/5255/	31.5/338/	675/7258/

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

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

^{*} Non University Examination(NUE)

Semester II

Course	- 100 (100 (100 (100 (100 (100 (100 (100		Internal Assessment	sessment		End Seme	End Semester Exams	E
code	Name of the course	Continuous	Session	Sessional Exams		;		Maule
		Mode	Marks	Duration	lotal	Marks	Duration	VIALKS
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
P206T	BP206T Environmental sciences - Theory*	10	15	11.	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
P209P	BP209P Biochemistry - Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP210P	Computer Applications in Pharmacy – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
	Total	80	125	20 Hrs	202	520	30 Hrs	725

* The subject experts at college level shall conduct examinations

Semester III

Course		_	Internal Assessment	sessment		End Seme	End Semester Exams	Total
code	Name of the course	Continuous	Session	Sessional Exams	Total	Morke	Duration	Marks
	Œ	Mode	Marks	Duration	10121	Mains	Dan amon	
BP301T	Pharmaceutical Organic Chemistry II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP302T	PhysicalPharmaceuticsI -Theory	10	15	1Hr	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	\$	10	4 Hr	. 15 .	35	4 Hrs	50
BP307P	Pharmaceutical Microbiology – Practical	v	. 10	4 Hr	15	35	4 Hrs	50
BP308P	Pharmaceutical Engineering – Practical	5	10	4 Hr	15	35	4 Hrs	50
	Total	09	100	20	160	440	28Hrs	009

Semester IV

Course	91	_	Internal Assessment	sessment		End Seme	End Semester Exams	Total
code	Name of the course	Continuous	Session	Sessional Exams	-	M	Durantion	Marks
	9	Mode	Marks	Duration	lotal	Marks	Duration	Main
BP401T	Pharmaceutical Organic Chemistry III— Theory	10	15	1 Hr	25	75	3 Hrs	100
P402T	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
P405T	BP405T Pharmacognosy I - Theory	10	15	1 Hr	25	75	3 Hrs	100
P406P	BP406P Medicinal Chemistry I - Practical	5	10	4 Hr	15	35	4 Hrs	50
BP407P	Physical Pharmaceutics II – Practical	5	10	4 Hrs	15	35	4 Hrs	50
DANSD	BD408D Pharmacology I - Practical	5	10	4 Hrs	15	35	4 Hrs	20
1001	DI +001 I managonnosy I – Practical	5	10	4 Hrs	15	35	4 Hrs	20
F409F	rnamacognos) i recent	02	115	21 Hrs	185	. 515	31 Hrs	700

Semester V

Course			Internal Assessment	sessment		End Semi	End Semester Exams	Total
code	Name of the course	Continuous	Session	Sessional Exams				Marke
		Mode	Marks	Duration	I otal	Marks	Duration	Mains
501T	BP501T Medicinal Chemistry II - Theory	10	15	1 Hr	25	75	3 Hrs	100
	Industrial Pharmacyl- Theory	10	15	1111	25	75	3 Hrs	100
	Pharmacology II - Theory	10	15	11.1	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
S06P	BP506P Industrial Pharmacyl-Practical	5	10	4 Hr	15	35	4 Hrs	50
BP507P	Pharmacology II - Practical	5	10	4 Hr	15	35	4 Hrs	50
BP508P	Pharmacognosy II - Practical	5	10	4 Hr	15	35	4 Hrs	50
	Total	99	105	17 Hr	170	480	27 Hrs	029

Semester VI

Course			Internal Assessment	ssessment		End Seme	End Semester Exams	Total
code	Name of the course	Continuous	Session	Sessional Exams	Total	Marke	Duration	Marks
		Mode	Marks	Duration	LOIAL	Mains		
3P601T	BP601T Medicinal Chemistry III - Theory	10	15	1 Hr	25	75	3 Hrs	100
3P602T	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	11.	25	75	3 Hrs	100
3P606T	BP606T Quality Assurance-Theory	10	15	1 Hr	25	75	3 Hrs	100
BP607P	Medicinal chemistry III – Practical	\$	10	4 Hrs	15	35	4 Hrs	50
BP608P	Pharmacology III - Practical	5	10	· 4 Hrs	15	35	4 Hrs	50
ВР609Р	Herbal Drug Technology – Practical	\$	10	4 Hrs	15	35	4 Hrs	50
	Total	75	120	18 Hrs	195	555	30 Hrs	750

Semester VII

Course	Name of the course		Internal Assessment	ssessment		End S Ex	End Semester Exams	Tofa
	36 1003	Continuous	Session	Sessional Exams				Marks
		Mode	Marks	Duration	otal	Marks	Duration	
BP701T	Instrumental Methods of Analysis - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP702T	Industrial Di							
T. COPULO	mansulal Fharmacy - Theory	10	15	1 Hr	25	75	3 Hre	100
BF/031	Pharmacy Practice - Theory	10	15	1 11-	000	2 1	CHIC	001
	Noval Dans D. F.	2	2	11.1	C7	2	3 Hrs	100
BP704T	Theory	10	1.5	1 Hr	25	75	3 Hrs	100
RP705 p	Instrumental Methods of Analysis							
100	- Practical	S	10	4 Hrs	15	35	4 Hrs	50
Sd 902	BP706 PS Practice School*	36						
		7		,	25	125	5 Hrs	150
	Total	20	70	8Hrs	140	460	21 11	000

* The subject experts at college level shall conduct examinations

Semester VIII

Course	SOL		Internal Assessment	ssessment		End Sem	End Semester Exams	Total
code	Name of the course	Continuous	Session	Sessional Exams	1000	2		Marks
		Mode	Marks	Duration	I OTAI	Marks	Duration	
BP801T		10	15	1 Hr	25	75	3 Hrs	100
BP802T	Social and Preventive Pharmacy - Theory	10	15	1 Hr	25	75	3 Hrs	100
PP803E	Elective -1							
I	— Pharmaceutical Marketing – Theory	10	15	1 Hr	25	75	3 Hrs	100
1	Pharmaceutical Regulatory							
=	Science - Theory							
Ш	Pharmacovigilance - Theory							
IV	Quality Control and							
	Standardizations of Herbals – Theory			i.				
>	Computer Aided Drug Design –	*	•					
RPS04FT	Flective - 2			,				
100101	Cell and Molecular Biology –	10	15	1111	25	75	3 Hrs	100
I	Theory		4					
П	Cosmetic Science - Theory				1			
Ш	Experimental Pharmacology – Theory	H						
IV	Advanced Instrumentation							
	Techniques - Theory							
>	Dietary Supplements and Nutraceuticals - Theory		F					
BP805PW	Project Work	1	1			150	4 Hrs	150
	Total	40	09	4 Hrs	100	450	16 Hrs	550

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	1100	imum irks
Attendance (Refer Table – XII)	4	2
Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	3	1.5
Student - Teacher interaction	3	1.5
Total	10	5
Practical		
Attendance (Refer Table – XII)	2	
Based on Practical Records, Regular viva voce, etc.	3	
Total	5	

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

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

Sessional Exams

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

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

Question paper pattern for theory Sessional examinations

For subjects having University examination

I. Multiple Choice Questions (MCQs)	=	$10 \times 1 = 10$
OR .		OR
Objective Type Questions (5 x 2)	=	$05 \times 2 = 10$
(Answer all the questions)		
I. Long Answers (Answer 1 out of 2)	=	$1 \times 10 = 10$
II. Short Answers (Answer 2 out of 3)	=	$2 \times 5 = 10$
3.83	#G207 17 10	
	Total =	30 marks

For subjects having Non University Examination

I. Long Answers (Answer 1 out of 2)

II. Short Answers (Answer 4 out of 6)

Question paper pattern for practical sessional examinations

I. Synopsis

II. Experiments

III. Viva voce

ions		
	=	10
	= [25
	= 🦰	05
Total	=	40 marks

12. Promotion and award of grades

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

13. Carry forward of marks

In case a studentfails 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 Assessmentshallbe carried overand he/she shall be entitled for grade obtained by him/her on passing.

14. Improvement of internal assessment

A studentshall have the opportunity to improvehis/her performance only oncein the Sessional exam component of the internal assessment. The re-conduct of the Sessional exam shall be completed before the commencement of next end semester theory examinations.

15. Re-examination of end semester examinations

Reexamination ofend semester examinationshall 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

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

Total 75 marks

For 50 marks paper

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

Total = 50 marks

For 35 marks paper

- I. Long Answers (Answer 1 out of 2) $1 \times 10 = 10$
- II. Short Answers (Answer 5 out of 7)

Total = 35 marks

Question paper pattern for end semester practical examinations

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

Total 35 marks

16. Academic Progression:

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

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

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

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

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

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

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

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

Any student who hasgiven 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 ABshould 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 Table – XII.

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

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00 - 100	0	10	Outstanding
80.00 - 89.99	A	9	Excellent
70.00 - 79.99	В	. 8	Good
60.00 - 69.99	С	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 ABand a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

18. The Semester grade point average (SGPA)

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

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

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

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

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

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 statusin case of F grade(s),till the course(s) is/are passed. When the course(s)is/are passedby obtaining a pass grade on subsequent examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

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

where C_1 , C_2 , C_3 ,... is the total number of credits for semester I,II,III,... and S_1 , S_2 , S_3 ,... 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 projectunder 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 Methodology adopted Results and Discussions Conclusions and Outcomes

20 Marks 20 Marks 20 Marks

15 Marks

Total

75 Marks

Evaluation of Presentation:

Presentation of work Communication skills Question and answer skills

25 Marks 20 Marks

Total

75 Marks

30 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 leveland grade point shall be awarded.

24. Award of Ranks

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

25. Award of degree

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

26. Duration for completion of the program of study

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

27. Re-admission after break of study

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

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

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

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

New Delhi, 10th May, 2008.

Pharm.D. Regulations 2008

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

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

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

CHAPTER-I

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

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Balaji institute of Pharmaceutical Sciences

Laknepally (V), Narsampet (M)

Warangal (Dt) - 506 331 (T.S)

CHAPTER-II

- 3. Duration of the course.
 - a) Pharm.D: The duration of the course shall be six academic years (five years of study and one year of internship or residency) full time with each academic year spread over a period of not less than two hundred working days. The period of six years duration is divided into two phases
 - Phase I consisting of First, Second, Third, Fourth and Fifth academic year.
 - Phase II consisting of internship or residency training during sixth year involving posting in speciality units. It is a phase of training wherein a student is exposed to actual pharmacy practice or clinical pharmacy services and acquires skill under supervision so that he or she may become capable of functioning independently.
 - b) Pharm.D. (Post Baccalaureate): The duration of the course shall be for three academic years (two years of study and one year internship or residency) full time with each academic year spread over a period of not less than two hundred working days. The period of three years duration is divided into two phases
 - Phase I consisting of First and Second academic year.
 - Phase II consisting of Internship or residency training during third year involving posting in speciality units. It is a phase of training wherein a student is exposed to actual pharmacy practice or clinical pharmacy services, and acquires skill under supervision so that he or she may become capable of functioning independently.
- 4. Minimum qualification for admission to. -
- a) Pharm.D. Part-I Course A pass in any of the following examinations -
- (1) 10+2 examination with Physics and Chemistry as compulsory subjects along with one of the following subjects:

Mathematics or Biology.

- (2) A pass in D.Pharm course from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act.
- (3) Any other qualification approved by the Pharmacy Council of India as equivalent to any of the above examinations.

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

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

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

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

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

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

TABLES

First Year:

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

^{*} For Biology

Second Year:

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

Third Year:

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

Fourth Year:

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

Fifth Year:

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

^{*} Attending ward rounds on daily basis.

Sixth Year:

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

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

Provided that the Pharmacy Council of India shall not approve any institution under these regulations unless it provides adequate arrangements for teaching in regard to building, accommodation, labs., equipments, teaching staff, non-teaching staff, etc., as specified in Appendix-B to these regulations.

- 10. Examination. (1) Every year there shall be an examination to examine the students.
 - (2) Each examination may be held twice every year. The first examination in a year shall be the annual examination and the second examination shall be supplementary examination.
 - (3) The examinations shall be of written and practical (including oral nature) carrying maximum marks for each part of a subject as indicated in Tables below:

TABLES

First Year examination:

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

^{*} for Biology.

Second Year examination :

S.No.	Name of Subject	Maximu	n marks for Practicals				
		Examination	Sessional	Total	Examination	Sessional	Total
2.1	Pathophysiology	70	30	100		-	
2.2	Pharmaceutical Microbiology	70	30	100	70	30	100
2.3	Pharmacognosy & Phytopharmaceuticals	70	30	100	70	30	100
2.4	Pharmacology-I	70	30	100			-
2.5	Community Pharmacy	70	30	100	+	-	-
2.6	Pharmacotherapeutics-I	70	30	+	-	•	-
	The state of the s	70	30	100	70	30	100
				600			300 = 900

Third Year examination :

S.No.	Name of Subject	Maximu	n marks for P	for Practicals			
	Maria Light	Examination	Sessional	Total	Examination	Sessional	Total
3.1	Pharmacology-II	70	30	100			
3.2	Pharmaceutical Analysis			100	70	30	100
3.3	Dhamasad 1	70	30	100	70	30	100
	Pharmacotherapeutics-II	70	30	100	70	30	
3.4	Pharmaceutical Jurisprudence	70	30	100	-	-	100
3.5	Medicinal Chemistry	70	20				
3.6	Pharmaceutical Formulations		30	100	70	30	100
510	Tharmaceutical 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 Pi		racticals
		Examination	Sessional	Total	Examination	Sessional	Total
4.1	Pharmacotherapeutics-III	70	120				Lotai
4.2	Hospital Pharmacy		30	100	70	30	100
4.3	Clinical Pharmacy	70	30	100	70	30	
4.4	Di cai Filamacy	70	30	100	70		100
4.4	Biostatistics & Research Methodology	70	30	100	-	30	100
1.5	Biopharmaceutics &	70	30	100			
	Pharmacokinetics .	/ / /	30	100	70	30	100
4.6	Clinical Toxicology	70	-				100
	- Toxicology	70	30	100		1000	+
				600		-	-
							1000 - 10

Fifth Year examination:

S.No.	Name of Subject	Maximu	m marks for	Theory	Maximun	racticals	
		Examination	Sessional	Total	Examination	Sessional	Total
5.1	Clinical Research	70	30	100	-	-	-
5.2	Pharmacoepidemiology and Pharmacoeconomics	70	30	100	-	-	-
5.3	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	70	30	100	1 -1		-
5.4	Clerkship *	-	-	-	70	30	100
5.5	Project work (Six Months)		-	-	100**	-	100
				300			200 = 500

^{*} Attending ward rounds on daily basis.

70 marks - Thesis work

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

(20 marks);

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

(10 marks).

^{** 30} marks - viva-voce (oral)

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

CHAPTER-III Practical training

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

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

(iv)Evaluation shall be done on the following items:	Marks
a) Write up of the seminar	(7.5)
b) Presentation of work	(7.5)
c) Communication skills	(7.5)
d) Question and answer skills	(7.5)
Total	(30 marks)
(v) Final evaluation of project work shall be done on the following items:	Marks
a) Write up of the seminar	(17.5)
b) Presentation of work	(17.5)
c) Communication skills	(17.5)
d) Question and answer skills	(17.5)
Total	(70 marks)

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

Learning Outcomes-based Curriculum Framework for M.Pharmacy-



PRINCIPAL

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MASTERS DEGREE IN PHARMACY ACADEMIC REGULATIONS

1. Duration of the Course

The duration of the Master of Pharmacy course shall extend over a period of two academic years (four semesters).

The course of study for M.Pharm shall include first semester, second semester, third semester and final semester, each of 15 weeks duration (excluding days spent in examination).

2. Eligibility for admission

- 2.1 A candidate who has passed Bachelor's Degree in Pharmacy with at least 55 % marks (Aggregate of 4 years / 3 years for lateral entry admission) (for SC / ST candidates, the pass percentage at the qualifying examination) from an Institution approved by PCI and AICTE.
- 2.2 For sponsored candidates: A Pharmacy Graduate, fulfilling conditions mentioned in section 2.1 and having 2 years of full time professional experience in a registered pharmaceutical company/ educational and/ or research institution/ any government organization will be eligible for admission under sponsored category. Sponsored candidates will have to submit a sponsorship letter from their employer along with the application form for admission. The letter must also mention the length of candidate's employment with the sponsor and the undertaking that the sponsorship shall not be withdrawn before the completion of the course.
- **2.3 There will be no age restriction**. However, candidates below 45 years of age shall be preferred.
- 2.4 Admissions will be made in order of merit. For preparing merit, equal weightage shall be given to aggregate percentage of marks obtained in B.Pharm. Reservations will be made as per State Govt. / University rules. In case of non availability of reserved category candidate(s), the reserved seat(s) shall be filled up by general category candidate(s)

3. Scheme of Study & Examination

- 3.1 The medium of instruction and examination shall be English.
- 3.2 Candidates for the Master of Pharmacy course shall be instructed and examined as per the Teaching & Examination Scheme and Course content of respective Specializations.

4. Eligibility for appearing in the examination

4.1 Attendance Requirement: In order to be eligible for University examination, a student must be present in not less than 75 % of theory and practical classes of each subject.

- **4.2** A candidate who has attended a regular course of study for the first semester shall be eligible to appear at the first semester examination for M. Pharm.
- **4.3** A candidate who has been promoted to second semester as per the provisions for conditions of passing and has attended a regular course of study for the second semester shall be eligible to appear at second semester examination for M. Pharm.
- **4.4** A candidate who has been promoted to third semester as per the provisions for conditions of passing and has completed the dissertation research work up to the satisfaction of the supervisor as prescribed under the relevant regulations for third semester shall be eligible to appear at the third semester examination for M. Pharm.
- 4.5 At the beginning of M. Pharm. third semester, for each candidate, a dissertation supervisor shall be appointed by the Head of the institution. The candidate shall choose a topic for dissertation in consultation with the supervisor, carry out literature survey on the proposed dissertation topic and submit a dissertation synopsis including plan of work duly signed by the supervisor to the Head of the institution for approval. The candidate shall then carry out the dissertation research work on the approved dissertation topic at the institute running the course under the guidance of respective supervisor. A candidate may also perform his/ her dissertation work at any other institute/ laboratory/ Syllabus: Master of Pharmacy, Chaitanya Deeemed to be University, Warangal, Telangana.

Industry as per the requirement of the subject on approval of the supervisor and the Head of the institution. If the appointed supervisor leaves the college/ is likely to be absent for a long period, the head of the institution shall appoint another supervisor. The candidate shall continue the dissertation work on the topic approved earlier.

4.6 A candidate who has been promoted to final semester as per the provisions for conditions of passing and has completed the dissertation research work up to the satisfaction of the supervisor as prescribed under the relevant regulations for the final semester shall be eligible to appear at the final semester examination for M. Pharm. During M. Pharm. final semester, candidate shall continue the dissertation research work of the third semester.

5. Sessional (Internal assessment)

5.1 Theory sessional (30 marks): Written test: 30 marks.

(i) Written test: 30 marks At least three written tests of 30 marks each in every theory subject shall be conducted by the institute at regular interval during each semester. The average of best two performances shall be taken into consideration for the purpose of computation of theory sessional marks. Duration of each written test shall be of one hour.

5.2 Practical sessional- Practical test: 30 marks

(i) Practical test: 30 marks At least three practical tests of 30 marks each in every practical subject shall be conducted by the institute at regular interval during each semester. The average of best two performances shall be taken into consideration for the purpose of computation of practical test marks. The duration of each practical test shall be of 4 hours. Each practical test may be conducted in different parts viz. synopsis/ spotting, exercise/ experiment and viva-voce etc.

- (ii) Day-to-day practical work/ experiments performed: 15 marks The concerned teacher shall evaluate the day-to-day practical work/ experiments performed in the laboratory on the basis of the performance of the student, viva-voce and maintenance of practical record.
- 5.3 Professional practice: The students shall carry out professional work as allotted by the Head of the institution in M.Pharm. first and second semesters. The professional work shall include performance of lab. duties, analysis of samples etc.
- **5.4 Dissertation sessional:** 50 marks For M.Pharm. third and final semester dissertation sessional, the candidate shall submit a copy of dissertation progress report printed or type written, containing the results of his/her dissertation research work duly signed by the supervisor and forwarded to the Head of the institution, on or before the prescribed date. The evaluation shall be on the basis of seminar and dissertation progress report, presentation and viva-voce and shall be done by a board consisting of dissertation supervisor and one teacher of the subject of specialization (to be appointed by the Head of the institution). The average of the marks awarded by the board members shall be considered for the purpose of computation of dissertation sessional marks.
- 5.5 The record of marks of sessional examination for each student shall be maintained by the college and must be submitted to the University before the commencement of University examination.
- 5.6 A candidate failing in any of the subjects shall have a chance to improve his /her sessional marks in theory, practical and dissertation by appearing in one additional sessional examination. The aggregate of best two performances from all the sessionals shall form the basis of calculating the average for computation of improved sessional marks. Marks for day-to-day assessment in the practicals cannot be improved unless a candidate attends a regular course of study again. Syllabus: Master of Pharmacy, Chaitanya Deemed to be University, Warangal, Telangana.

6. University examination

- 6.1 University examinations for all the four semesters are to be held twice in a year, in the months of May/June and Nov./Dec. or on such dates as may be fixed by the University.
- 6.2 University examination in each theory subject shall be of three hours duration. There shall be 7 questions carrying equal marks, out of which 5 questions shall have to be attempted.
- 6.3 University examination in each practical subject shall be of 6 hours duration and shall comprise of synopsis / spotting, exercise / experiment and viva-voce etc. The head of the institution shall send the awards to the University, on or before the prescribed date.

7. DISSERTATION

7.1 For M. Pharm. third semester University examination, the candidate shall submit four copies of dissertation report, printed or type written, in spirally bound form, containing the results of his/ her dissertation work duly signed by the supervisor and countersigned by the head of the institution. The evaluation shall be on the basis of dissertation report, presentation

and viva voce and shall be done by a Board consisting of dissertation supervisor, external examiner appointed by the University and the Head of the institution who shall be the chairman of the board. The chairman shall then send the awards to the University, on or before the prescribed date.

- 7.2 For M. Pharm. final semester University examination, the candidate shall submit four copies of dissertation thesis printed or type written, in bound form, containing the results of his/ her research work. The dissertation thesis shall bear a certificate from the supervisor countersigned and duly forwarded by the Head of the institution, on or before the prescribed date, certifying that:
- (i) The work has been undertaken and completed and the dissertation has been written under his/her supervision and guidance and meets the requirements of the course.
- (ii) The dissertation is a bonafide record of the original work carried out by the candidate and the dissertation work has not formed the basis of award of any other degree or diploma etc. of this or any other University. The evaluation shall be done on the basis of dissertation thesis, presentation and viva voce and shall be done by a Board consisting of dissertation supervisor, external examiner appointed by the University and the Head of the institution who shall be the chairman of the board. The chairman shall then send the awards to the University, on or before the prescribed date.

8. Conditions of passing

- **8.1** A candidate shall be declared to have passed in a subject when he/ she has secured 50% of the maximum marks in the sessional and University examination marks put together separately in each theory and practical subjects and dissertation sessional and dissertation university examination.
- **8.2** A candidate who fails to obtain 50% marks in any subject(s) (Theory and practical counted as separate subject) in first or second semester examination, shall be eligible for promotion to second/ third semester. Such candidate shall have to appear again in failing subject(s) in the subsequent examination.
- **8.3** No candidate will be eligible for submitting the dissertation thesis unless he/ she has passed in all subjects of first/ second semester.
- **8.4** A candidate, who has failed in M. Pharm. third semester examination, shall be furnished by the Board [Point 6(c)] with a clear statement of reasons for failure and suggestions for improvement. He/ she shall not be allowed to pursue course for M. Pharm. final semester. He/ she shall revise and resubmit the dissertation report after pursuing research work as suggested by the board on the same dissertation topic. Such a candidate will have to reappear as an exstudent in the next M. Pharm. third semester University examination.
- **8.5** A candidate, who has failed in M. Pharm. final semester examination, shall be furnished by the Board [Point 6(d)] with a clear statement of reasons for failure and suggestions for improvement. He/ she shall revise and resubmit the dissertation thesis after incorporating

suggestions made by the board on the same dissertation topic. Such a candidate will have to reappear as an ex-student in next M. Pharm. final semester University examination.

8.6 In no case will a candidate, who has not passed finally after six academic years from the date of enrolment, be allowed to continue the course. Syllabus: Master of Pharmacy, Chaitanya Deemed to be University, Warangal, Telangana.

The Vice-chancellor in consultation with the Head of the institution may waive this limit of six academic years. The reasons for waiving the limit shall be recorded in writing. Such extension shall not exceed one year.

8.7 A candidate who is unable to appear at any examination in any subject(s) due to any reason whatsoever shall be considered as having failed in that subject(s).

9. Award of Degree, Division and Rank

- 9.1 On satisfactory completion of the course and after passing all the semester examinations, a candidate shall be awarded degree of M. Pharm. in the respective branch.
- 9.2 No division shall be awarded at the end of M. Pharm. first, M. Pharm. second and M. Pharm. third semester examinations. The division to a successful candidate shall be awarded on the basis of aggregate of marks obtained by him/ her in M. Pharm. first semester, M. Pharm. second semester, M. Pharm third semester and M. Pharm. final semester examinations regardless of the number of attempts, as shown below: Percentage of marks Division 75% or above Honours 60% or above First Division 50% or above Second Division.
- 9.3 A candidate will be said to have passed a paper with distinction if he/ she secure 75% or more marks in the concerned paper.
- 9.4 The actual marks (and not the passing marks) as obtained by a candidate in a supplementary/attempt examination shall be counted for award of division.
- 9.5 Rank shall be conferred to those candidates who have passed the whole examination in first attempt (without any grace) and such candidates shall be eligible for any prize or scholarship.

Promotion:

A student has to not only put in 75% of attendance and register for examination for each semester but also appear all paper in each semester for promotion to next semester. A students with 4 papers has block lag can be promoted to M.Pharm second year. There shall be no supplementary examinations.

The minimum pass marks shall be 50% in each paper (Theory & Practicals) separately.

Award of division

Aggregate marks of all the semesters:

I Division with Distinction ---- 75% and above I Division ---- 60% and above and below 70%

II Division 55% and above and below 60% 50%

A candidate in order to become eligible for I/II division shall be required to pass all the papers of final semester in one attempt, besides passing I/II/III semester papers, either earlier to or along with the final semester.

Whenever the syllabi and scheme of examination are changed, in such cases two examinations will be conducted as per old syllabus and scheme. Thereafter, the candidates who have availed/ not availed and not qualified shall have to take the backlog papers as per the changed syllabi and scheme of examination.

The candidates who could not put up required percentage of attendance and detained, however be eligible to seek readmission in the same semester (with at least 40% of attendance in aggregate). Such students have to pay 50% of the tuition fee prescribed.

Distributions of papers:

I semester All papers compulsory
II semester All papers compulsory
III semester (Seminar Comprehensive viva voice)
IV Semester project work

Improvement:

a) Improvement during the course of study

"A candidate who has passed in the papers of I/II/ semesters completely can improve his /her performances in one or more papers of I/II/ semesters in the immediately following examination with the provision to retain the better of the two".

Important Guidelines:

There shall be four major subjects and two practical during the first two semesters.

One seminar and one assignment will be conducted during each semester (I&II). Each will be evaluated for 50 marks by three average of it is taken for awarding marks.

One seminar pertaining to the topic of dissertation including concept, literature plan of work will be conducted at the end of III rd semester and will be evaluated by minimum of three PG teachers which would include the concerned supervisor. The average marks will be taken into account.

Thesis marks will be awarded only by the external examiners.

The viva-voce marks are to be awarded by the supervisor and external examiner jointly.

Comprehensive viva shall be conducted at the end of third semester and evaluated by the external examiner and all faculty members within each specialization.

One assignment related to specialization (related to specific topics and supported by original articles) is given in each of I & II semesters, which shall be evaluated by two examiners. Average marks are taken into account.

One seminar each semester during I & II shall be conducted before all the faculty and PG students and will be evaluated by minimum of three PG teachers. Average marks are taken into account.

There shall be two practical examinations each of six hours duration on two consecutive days at the end of first and second semesters. There shall be one internal examiner for each practical examination. However, the external examiner shall be common for both the practical examinations.

RULES, REGULATIONS AND SYLLABUS FOR

B.PHARM (FOUR YEAR COURSE) KAKATIYA UNIVERSITY, WARANGAL - 506 009

From the academic year 2008 - 2009 onwards

(Applicable to the UCPSc and other Pharmacy colleges Affiliated to KU, Warangal)

I. GENERAL RULES AND REGULATIONS

1. Eligibility for admission:

Candidates for admission to the Degree of Bachelor of Pharmacy shall be required to have passed the Intermediate Examination of the Board of Intermediate Education, Andhra Pradesh or an Examination recognized as equivalent there to with Physics, Chemistry and Mathematics or biology as subjects.

OR

The Diploma in Pharmacy Examination from an Institute in AP recognized by the Pharmacy Council of India (or a local candidate with a Diploma in Pharmacy from outside AP).

The degree of Bachelor of Pharmacy will be conferred on the candidates who have subsequently undergone the prescribed course of study of the Kakatiya University for a period of not less than four academic years.

 The course and Examination for the four year shall be designated as I-B Pharm, II-B.Pharm, III-B.Pharm, IV-B.Pharm. The examination for each year shall be on the basis of the Scheme of Examination.

 The distribution of marks shall be as indicated in the Scheme of Examination and the scope of subjects as indicated in the syllabus.

 In every academic year there shall be one annual examination, ordinarily in April/May and one supplementary examination in October/November or on such dates as may be fixed by the University.

6. Candidates admitted to any year of the course of study shall pursue in each academic year, the regular courses of lecturers, tutorials, practicals etc, as mentioned in the Scheme of Instructions and after satisfying the conditions laid down in these ordinances will be eligible to appear for the examinations on such dates as may be fixed by the University.

7. A candidate to be eligible to take an examination specified in paragraph [4] shall prosecute a regular course of study in the course prescribed for the examination concerned, for not less then one academic year in the University College of Pharmacourtical Sciences and officiated college of the latest and the University College of the Indiana.

Pharmaceutical Sciences and affiliated colleges of Kakatiya University.



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Baial Institute of Pharmaceutical Sciences
Laknepally (V), Narsampet (M)
Warangal (Dt) - 506 331 (T.S)

8. A student shall be deemed to have pursued a regular course of study in a subject during each academic session, if he/she attended at least 75% of the classes held in each subject of examination and had produced a certificate of good conduct from the Principal of University College of Pharmaceutical Sciences/other affiliate Pharmacy colleges. Provided that the Vice-Chancellor of the university may condone shortage in attendance not exceeding 10% in each subject due to one or more of the following reasons involving absence from classes.

 Participation in NCC camp duly supported by a certificate to that effect from the Officer-Commanding, NCC.

- Participation in University or College team in games or cultural activities at Interstate or Inter-University level duly supported by the certificate from the Office concerned.
- c. Participation in Educational excursions conducted on working days certified by the principal of the College. No credit will be given for excursions conducted on holidays.
- d. University deputation for youth festival certified by the Principal of the College.

e. Prolonged illness duly certified by the Medical Officer of the University Hospital or any Government Hospital.

9. In order to pass an examination, the candidate (i) shall obtain not less then 45 (forty five)% of the Marks allotted for the examination in each paper and (ii) shall obtain not less than 50 (fifty)% of all papers of examination for that particular year.

10. A candidate, who fails in four papers or less, may be promoted to next higher class. Such candidate may take the examination in the papers in which he/she failed, at the subsequent annual or supplementary examination.

11. The candidates of II, III and IV year B.Pharm, who failed in some of the I, II, or III year papers, respectively may be permitted to appear for these papers at the Annual/Supplementary examinations together with II, III or IV year examinations provided, however, that the total number of papers in which they have failed is not more than four at any time for the promotion to next higher class. However D.Pharm lateral entry students in B.Pharm II year may be promoted to III year, even if they failed in five subjects, provided if these students have to appear for more papers in total than the regular students of II year in annual exams.

The award of division shall be based on the aggregate marks obtained by a candidate in B.Pharm. I, II, III and IV, years examinations put together. Those who obtain 50% marks and more but less than 60% will be awarded Second Division and those who obtain 60% and above will be awarded First Division. Candidates securing 75% and the above in the aggregate of all examinations of B.Pharm. I, II, III and IV in first attempt shall be declared to have passed in First Division with Distinction. Any candidate, who carries a backlog at any stage, will not be eligible for distinction and rank.

A candidate shall be ranked on the basis of his/her grand total provided he/she has passed in all the papers of his/her I, II, III and IV year examinations in first attempt.

- 14. i. A candidate who fail to secure 50% in aggregate, but has passed in all papers shall be allowed to appear at a supplementary examination in any theory papers of his/her choice of that particular year.
 - ii. A candidate who fails to secure 50% in aggregate and also fails in not more than one paper shall be allowed to appear at a supplementary examination in the paper failed and two theory papers of his/her choice.
- 15. The college, if possible will organize an Educational and Industrial tour for 15 days during III year B.Pharm. Students as a part of the teaching program, may take part accompanied by faculty members deputed by the college.
- 16. Industrial/Hospital training: It is compulsory that every student of B.Pharm shall undergo training for a period of 6 weeks during final B.Pharm (in summer vacation) in Pharmaceutical Company or in a Hospital.