

## B.PHARM REGULATIONS

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1.1 The degree of Bachelor of Pharmacy of Andhra University will be conferred on a candidate who has satisfied the following conditions.

1.2 The candidate must have passed the (i) Intermediate examinations of the Board of Intermediate Education, Government of Andhra Pradesh, (ii) Diploma in Pharmacy examination of the Dept.of Technical Education, Govt.of Andhra Pradesh or any other examination recognized by the academic senate as equivalent there to with Physics, Chemistry, and Mathematics or Biology as group subjects and must have qualified in the Entrance Exams as prescribed by the University for being eligible to join I semester of B.Pharm course.

1.3 The candidate must have, after passing the qualifying examination pursued a regular course of study for not less than four academic years and satisfied the academic requirements as prescribed thereafter. The scope of subject matter in each course and periods of study shall be as indicated in the syllabus and the scheme of instruction.

1.4 Each period of instruction is of 45 minutes duration. Eight periods of instruction are provided on each day and there are six working days in a week (Monday to Saturday).

1.5 Attendance requirements: A regular course of study during an academic semester means a minimum of average attendance of 75% of all the courses of the semester computed by totaling the member of periods of lectures and practical as the case may be, held in every course. In special cases where sufficient causes were shown, the Vice-Chancellor may on the recommendation of the Principal and Head of the Department concerned condone the deficiency in the average attendance to an extent of 9% for reasons such as ill health, if the application for condonation is submitted at the time of actual illness and is supported by certificate of authorized Medical Officer approved by the Principal. How ever, in the case of students, who

participate in activities like N.S.S., N.C.C., Inter-Collegiate tournaments conducted by Andhra University, Inter-University tournaments conducted by Inter-University Board and any such other activities involving the representation of the College/ University with the prior approval of the Principal, the candidate may be deemed to have attended the college during the period solely for the purpose of the examination.

1.6 A candidate who cannot satisfy the attendance requirements in clause 1.5 because of late admission under special circumstances reasonable and acceptable to the university on the basis of document, shall fulfill the following conditions ;

Average attendance : A candidate shall have attended at least a total of 90% of the periods- lectures/practicals as the case may be held from the date of admission and also shall attend at least 50% of the total working days during that academic semester ( Late admission means, admissions made after 45 days from date of commencement of the academic semester for the course).

17. If any candidate fails to satisfy the regulation under 1.5 or 1.6 she/he shall not be allowed for the University exams at the end of the semester, and he shall not be allowed for promotion to the next higher class of study. He shall be required to repeat the regular course of study of the academic semester.

2.0. Assessment for the award of degree shall consists of (a) Internal evaluation for 20 marks in each of the theory and practical courses separately except in course 101 Mathematics (bridge course) and 101 A and B Biology theory and practical (bridge course). For course 101,101 A and B the sessional marks shall be for 30, 20 and 10 respectively as detailed in the scheme of examination. (b) Semester-end examination as detailed in the scheme of examination for 80 marks in each of the theory and practical, except for 101 Mathematics bridge course 101 A and B Biology theory and practical (bridge course). For course 101 Mathematics (bridge course) the sessional marks shall be 30, 20 and 10 and semester-end examination shall be for 120, 80 and 40 marks respectively.

2.1 Regulations concerning sessional examination: (a) There shall be two sessional examinations in each theory course and the best of the two shall be taken; (d) the marks for the internal evaluation for the practical are awarded based on the continuous

assessment of the performance of the candidate at the practical classes and the records. The marks certificate issued to the candidate by the University shall

show separately the sessional marks, the semester-end examination marks and the aggregate of both; (c) The teacher who teaches the subject shall ordinarily be the internal examiner, (d) There shall be no provision for the improvement of the sessional marks.

2.2 Regulations concerning semester-end examination; (a) There shall be one semester - end examination in each theory course based on the question paper set by an external paper setter and it shall be evaluated by an internal examiner. There shall be one semester-end examination in each practical course and the setting and evaluation shall be done jointly by two examiners, one internal and one external. The duration of the practical examination may be of 4 to 6 hours as prescribed. There shall be no supplementary examination except for the final semester-end examination. (b) A candidate shall not be allowed to appear for the fifth semester-end examination unless he passes the first semester-end examinations and the seventh semester-end examinations unless he passes the third semester-end examination.

3.1 A candidate shall be declared to have passed the examination in each semester if he obtains (i) not less than 40% marks in each theory and 50% in each practical of the semester-end examinations and (ii) an aggregate of 50% of the total in all the examinations of that semester including sessionals.

3.1a. A candidate who fails to satisfy 3.1 may be permitted to improve the aggregate up to 50% by appearing at the subsequent University examinations for the subjects of his choice. The improved overall aggregate shall be limited to 50% only.

3.1b A candidate may be permitted to improve his performance in semester-end examination of any semester only after completing the entire eight semester course of study by appearing again for the whole said examination only during four subsequent years after completion of the study of the entire course.

Such an improvement can be availed only once for each one of the semester examinations of the entire course of study. When considered in its totality the better of

the tow performances as whole at the I, II, III, IV, V, VI, VII or VIII semesters as the case may be shall be taken into consideration for the purpose of awarding the first class.

3.1c. The courses 101 Mathematics, 101 (A) Biology theory and 101(B) Biology practical are bridge courses for candidates with only biology and with only mathematics background respectively at the intermediate level. Candidates with Diploma in Pharmacy have to take course 101 Mathematics. The respective candidates shall have to pass in these courses. The marks awarded in these courses shall not be considered for the award of B.Pharm. Degree.

3.2 The award of class shall be based on the aggregate marks obtained by the candidate in all the semester examinations. Those who obtained 50% marks and more but less than 60% will be awarded II class. Those who obtained 50% and above will be awarded I class. Candidates securing 70% and above in the aggregate of all examinations of B.Pharmacy in first attempt shall be declared to have passed in I class with distinction. Any candidate who carried a backlog at any stage will not be eligible for distinction, rank, medal or prizes to be awarded by the University. First attempt means appearance at the firs examinations conducted for the particular batch.

4.0 Every candidate shall undergo practical training for at least two months in pharmaceutical factory at the end of the final semester of the course.

**SCHEME OF INSTRUCTION AND EXAMINATION**  
**I – B.PHARM – SEMESTERS I AND II**  
**(Under annual pattern)**

Course No.	Subject	Periods per week		Duration of Exam (Hrs)		Sessionals	Marks year end		Total
		Theory	Prac.	Theory	Prac.		Theory	Prac.	
		101	Mathematics (bridge course)	4	-		3	-	
101 A	Biology (bridge course)	2	-	3	-	20	80	-	100
101 B	Biology – do – practical	-	2	-	4	10	10	40	50
102	English	3	-	3	-	20	80	-	100
103	Pharmaceutical Chem.I ( Inorganic)	2	-	3	-	20	80	-	100
104	Pharmaceutical Chem.I (Inorganic) Practical	-	3	-	4	20	-	80	100
105	Pharmaceutical Chem. II (Organic –I)	2	-	3	-	20	80	-	100
106	Pharmaceutical Chem. II ( Organic –I) Practical	-	3	-	4	20	-	80	100
107	Manufacturing Pharm I	3	-	3	-	20	80	-	100
108	Manufacturing Pharm I (Practical)	-	3	-	4	20	-	80	100
109	Physical Pharmacy I	2	-	3	-	20	80	-	100
110	Physical Pharmacy I Practical	-	3	-	4	20	-	80	100
111	Human Physiology & Health Education I	2	-	3	-	20	80	-	100
112	Human Physiology & Health Education I Practical	-	3	-	4	20	-	80	100

113	Computer Applications	2	-	3	-	20	80	-	100
114	Computer Applications Practical	-	3	-	4	20	-	80	100

**Total: 38 Periods + Tutorials : 2 periods**

### II B.PHARM – SEMISTER-I

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
211	Pharmaceutical Chemistry-III (Organic –II)	4	-	3	-	20	80	-	100
212	Pharmaceutical Chemistry-III (Organic-II) Practical	-	6	-	4	20	-	80	100
213	Pharmaceutical Analysis I	4	-	3	-	20	80	-	100
214	Pharmaceutical Analysis I Practical	-	6	-	4	20	-	80	100
215	Pharmaceutical Engineering I	4	-	3	-	20	80	-	100
216	Pharmaceutical Engineering I Practical	-	6	-	4	20	-	80	100
217	Human Physiology & Health Education II	4	-	3	-	20	80	-	100

**Total: 34 Periods + Tutorials : 4 Periods**

### II B.PHARM – SEMISTER-II

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
221	Physical Pharmacy-II	4	-	3	-	20	80	-	100
222	Physical Pharmacy II Practical	-	6	-	4	20	-	80	100
223	Pharmaceutical Microbiology	4	-	3	-	20	80	-	100
224	Pharmaceutical Microbiology Practical	-	6	-	4	20	-	80	100
225	Applied Biochemistry	4	-	3	-	20	80	-	100
216	Applied Biochemistry Practical	-	6	-	4	20	-	80	100
227	Applied statistics	4	-	3	-	20	80	-	100
228	Environmental Sciences								

**Total: 34 Periods + Tutorials : 4 Periods**

Note: The 4 hours of Practical examination in 304 is to be divided on two consecutive days with 3 hours on the first day and one hour on the next day.

### III B.PHARM – SEMISTER-I

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
311	Drug store and Industrial Management & Marketing	4	-	3	-	20	80	-	100
312	Pharmacology I	-	-	3	-	20	80	-	100
313	Pharmacology I Practical	4	6	-	6	20	-	80	100
314	Dispensing and Hospital Pharmacy	-	-	3	-	20	80	-	100
315	Dispensing and Hospital Pharmacy Practical	4	6	-	6	20	-	80	100
366	Biological Pharmacy	-	-	3	-	20	80	-	100
317	Biological Pharmacy Practical	4	6	-	6	20	-	80	100

**Total: 34 Periods + Tutorials : 4 Periods**

Note: The 6hours of Practical examination in 407 is to be divided on two consecutive days with 5 hours on the first day and one hour on the next day.

### III B.PHARM – SEMISTER-II

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
321	Forensic Pharmacy	4	-	2	-	20	80	-	100
322	Pharmaceutical Chemistry IV (Medicinal I)	6	-	3	-	20	80	-	100
323	Pharmaceutical Chemistry IV (Medicinal I) Practical	-	6	-	6	20	-	80	100
324	Pharmacognosy & Phytochemistry I	4	-	3	-	20	80	-	100

325	Pharmacognosy & Phytochemistry I Practical	-	6	-	6	20	-	80	100
326	Pharmaceutical Engineering II	4	-	3	-	20	80	-	100
327	Pharmaceutical Engineering II Practical	-	6	-	6	20	-	80	100

**Total: 36 Periods + Tutorials : 4 Periods**

#### IV B.PHARM – SEMISTER-I

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
411	Pharmaceutical Chemistry V (Medicinal II)	6	-	3	-	20	80	-	100
412	Pharmaceutical Chemistry V (Medicinal II) Practical	-	6	-	6	20	-	80	100
413	Pharmacognosy and Phytochemistry II	4	-	3	-	20	80	-	100
414	Pharmacognosy and Phytochemistry II Practical	-	6	-	6	20	-	80	100
415	Industrial Pharmacy & Cosmetic Technology	6	-	3	-	20	80	-	100
416	Industrial Pharmacy & Cosmetic Technology Practical	-	6	-	6	20	-	80	100
417	Pharmaceutical Biotechnology	4	-	3	-	20	80	-	100

**Total: 38 Periods + Tutorials : 4 Periods**

#### IV B.PHARM – SEMISTER-II

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
421	Pharmaceutical Chemistry VI (Natural Products)	6	-	3	-	20	80	-	100
422	Pharmaceutical Chemistry VI (Natural Products) Practical	-	6	-	6	20	-	80	100
423	Pharmacology II	4	-	3	-	20	80	-	100



424	Pharmacology II Practical	-	6	-	6	20	-	80	100
425	Pharmaceutical Analysis II	6	-	3	-	20	80	-	100
426	Pharmaceutical Analysis II Practical	-	6	-	6	20	-	80	100
427	Biopharmaceutics & Clinical Pharmacy	4	-	3	-	20	80	-	100

**Total: 38 Periods + Tutorials : 4 Periods**