

**VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT**  
**ORDINANCE AND REGULATIONS FOR DEGREE PHARMACY**  
**COURSE**

**B. Pharm**

(Revised)

(By us)

**TO BE IMPLEMENTED FROM ACADEMIC YEAR 2003-2004**

**O. PHARMA-I-A**

Minimum qualification for admission in to First Year of Pharmacy Course: A pass in any of the following examination with Physics, Chemistry and Biology or Mathematics recognized by Indian Board/University or its equivalent.

- i. Intermediate examination in Science
- ii. 10+2 examination (academic stream) in Science
- iii. Pre-degree examination in science
- iv. Any other qualification approved by the PCI/ AICTE as equivalent to any of the above examination.

**O.PHARMA-I-B**

Minimum qualification for admission directly in to Second Year of Bachelor of Pharmacy Course: A pass in Diploma in Pharmacy (ER-91 or above) from an institution approved by PCI or any other qualification approved by PCI as equivalent to Diploma in Pharmacy.

**R. PHARMA-I**

**Duration of the course:**

The duration of the course shall be of Four academic year with each academic year spread over a period of not less than one hundred and eighty working days excluding 500 hours practical training spread over a period of not less than three months.

Student who has been admitted under regulation O.PHARMA-I-B, the duration of course shall be of three academic years with each academic year spread over a period of not less than 180 working days excluding 500 hours practical training spread over a period of not less than three months, at a recognized pharmaceutical manufacturing concern or an Analytical laboratory or a Bulk drug manufacturing unit or a fine chemical manufacturing unit.

**R. PHARMA-II**

**Course of study:**

The course of study for Bachelor of Pharmacy shall include subjects as given in Table (I to V).The number of hours for theory/ practical for each subjects will be as specified against the subject.

The students admitted directly in to **SECOND YEAR B. PHARM** as per provision of regulation O. PHARM-I-B are required to study, appear the exam and pass the theory and practical exam where ever prescribed of the following subjects of First Year B. Pharm.

## A-2

PH : 101	PHARMACEUTICS – I (Physical Pharmacy)
PH : 102	PHARMACEUTICS – II (Unit Operation – I and Engg. Drawing )
PH : 105	Advanced Mathematics
PH : 106	Computer Applications in Pharmacy

The scheme of instruction for students admitted directly to S. Y. B. Pharm from Diploma Pharmacy stream will be as given in Table – V.

### **R. PHARM –III**

The syllabus for each subject has been specified in Appendix B of these regulations.

### **R. PHARM – IV**

Examination :

A candidate for B. Pharm degree will be required to pass four subsequent examination called First B. Pharm, Second B. Pharm, Third B. Pharm, and Final B. Pharm Examination.

Examination shall be held twice in an year i.e. in April and in October of the Bachelor of Pharmacy.

The examination shall be written, practical, including oral nature. The scheme of examination along with duration of exam, sessional and external marks is mentioned in Table VI to X

### **R. PHARM –V**

Eligibility for appearing at Bachelor of Pharmacy Examination :

Candidate shall have to produce certificate at the end of each academic year from the Head of the Institute in proof of his / her having regularly and satisfactorily undergone the course of study by attending not less than 75% of the classes held both in theory and in practical separately in each subject.

### **R.PHARM – VI**

**Mode of Examination :**

1. The duration of theory / Practical exams shall be shown in the scheme of examination for various classes.
2. A candidate who fails in Theory or Practical examination of a subject shall reappear in Theory or Practical as the case may be.
3. Practical examination shall also consist of a viva – voce (Oral) examination.



**R. PHARM –IX**

**Eligibility for promotion to Bachelor of Pharmacy Second, Third, and Final Year**

Candidate who have passed in all the papers are eligible for promotion to next higher class. Student failing in four or less than four papers either in theory and / or practical shall be allowed to keep term of next higher class at his option. The option once exercised for provision under this rule shall be final. How ever failure in more than FOUR PAPERS either in theory / practical alone or in theory and practical together, shall debar him / her from promotion to next class.

In no academic year the total number of papers of preceding class / classes in which student failed shall exceed four. In such case he / she shall not be promoted to next higher class unless he / she clears all papers / parts of them to reduce number of uncleared papers to four or less.

**R. PHARM – X**

Improvement of sessional marks:

Candidate can improve sessional marks by appearing internal examination in any theory / practical as per provision stated in R. PHARM – VII.

A-5

**SCHEME FOR INSTRUCTION FOR FOUR YEAR REGULAR COURSE  
(PROPOSED)**

**TABLE – I**

**B.PHARM – FIRST YEAR**

Paper No.	Subject	Teaching Hours per week		
		Theory	Practical	Total
101	Pharmaceutics –I (Physical Pharmaceutics)	3	3	6
102	Pharmaceutics –II (Unit Operation –I & Engg. Drawing)	2	3	5
103	Pharmaceutical Chemistry- I (Inorganic And Physical)	4	3	7
104	Human Anatomy, Physiology & Health Education	3	3	6
105	Pharmacognosy – I	2	3	5
106	Biostatistics & advanced Mathematics	2	-	2
107	Computer Applications in Pharmacy	2	3	5
		18	18	36

**TABLE – II**

**B.PHARM – SECOND YEAR**

Paper No.	Subject	Teaching Hours per week		
		Theory	Practical	Total
201	Pharmaceutics –III (Unit Operation – II)	2	3	5
202	Pharmaceutics –IV(Pharma Dispensing)	3	3	6
203	Pharmaceutical Chemistry- II(Organic)	3	3	6
204	Pharmaceutical Analysis – I	3	3	6
205	Pharmacology – I (Biochemistry & Pathophysiology)	3	3	6
206	Hospital Pharmacy	2	-	2
207	Pharmaceutical Jurisprudence & ethics	2	-	2
		18	15	33

**A-6**

**TABLE – III  
B.PHARM – THIRD YEAR**

Paper No.	Subject	Teaching Hours per week		
		Theory	Practical	Total
301	Pharmaceutical Microbiology	2	3	5
302	Pharmaceutical Biotechnology	3	-	3
303	Medicinal Chemistry – I	3	3	6
304	Pharmacology – II (Pharmacology & Chemotherapy)	3	3	6
305	Pharmacognosy – II	2	3	5
306	Community Pharmacy (Including clinical pharmacy)	2	3	5
307	Pharmaceutical Industrial Management	3	-	3
		18	15	33

**TABLE – IV  
B.PHARM – FINAL YEAR**

Paper No.	Subject	Teaching Hours per week		
		Theory	Practical	Total
401	Pharmaceutics- V (Biopharmaceutics, Pharmacokinetics & Dosage form Design)	3	3	6
402	Pharmaceutics –VI (Pharmaceutical Technology Industrial Pharmacy)	3	3	6
403	Medicinal Chemistry – II	3	3	6
404	Pharmaceutical Analysis – II (Instrumental & Quality assurance)	3	3	6
405	Pharmacology – III (Pharmacology & Drug Bio – evaluation)	3	3	6
406	Pharmacognosy – III (Phyto Pharmaceuticals)	3	3	6
407	Elective	-	-	-
		18	18	36

A-7

**TABLE – V**  
**SCHEME OF INSTRUCTION FOR D. PHARMACY STUDENTS DIRECTLY**  
**ADMITTED TO SECOND YEAR B.PHARM**

Paper No.	Subject	Teaching Hours per week		
		Theory	Practical	Total
201	Pharmaceutics –I (Physical Pharmaceutics)	3	3	6
202	Pharmaceutics –II(Unit Operation-I & Engg.Drawing)	2	3	5
203	Pharmaceutical Chemistry- II(Organic)	3	3	6
204	Pharmaceutical Analysis – I	3	3	6
205	Pharmacology – I (Biochemistry & Pathophysiology)	3	3	6
206	Hospital Pharmacy	2	-	2
207	Biostatistics & Advanced Mathematics	2	-	2
208	Computer Applications in Pharmacy	2	3	5
		20	18	38

**SCHEME OF EXAMINATION FOR FOUR YEAR B.PHARM COURSE**  
**TABLE – VI**  
**B.PHARM – FIRST YEAR**

Paper No	Subject	Duration of Uni.Examination		Maximum Marks For					
				Theory			Practical		
		Th	Pr.	Ex	Se	Tot	Ex	Se	Tot
101	Pharmaceutics –I (Physical Pharmaceutics)	3	3	70	30	100	60	40	100
102	Pharmaceutics –II(Unit Operation-I & Engg.Drawing)	3	3	70	30	100	60	40	100
103	Pharmaceutical Chemistry- I(Inorganic & Physical)	3	3	70	30	100	60	40	100
104	Human Anatomy, Physiology & Health Education	3	3	70	30	100	60	40	100
105	Pharmacology – I	3	3	70	30	100	60	40	100
106	Biostatistics & Advanced Mathematics	3	-	70	30	100	-	-	-
107	Computer Applications in Pharmacy	3	3	70	30	100	60	40	100

**A-8**

**TABLE – VII**  
**B.PHARMA – SECOND YEAR**

Paper No	Subject	Duration of Uni.Examination		Maximum Marks For					
				Theory			Practical		
				Th	Pr.	Ex	Se	Tot	Ex
201	Pharmaceutics –III (Unit Operation – II)	3	3	70	30	100	60	40	100
202	Pharmaceutics –IV(Pharm Dispensing)	3	3	70	30	100	60	40	100
203	Pharmaceutical Chemistry- II(Organic)	3	3	70	30	100	60	40	100
204	Pharmaceutical Analysis – I	3	3	70	30	100	60	40	100
205	Pharmacology – I (Biochemistry & Pathophysiology)	3	3	70	30	100	60	40	100
206	Hospital Pharmacy	3	-	70	30	100	-	-	-
207	Pharmaceutical Jurisprudence & ethics	3	-	70	30	100	-	-	-

**SCHEME OF EXAMINATION FOR DIPLOMA PHARMACY STUDENTS**  
**DIRECTLY ADMITTED TO SECOND YEAR B.PHARM.**

**TABLE – VIII**

Paper No	Subject	Duration of Uni.Examination		Maximum Marks For					
				Theory			Practical		
				Th	Pr.	Ex	Se	Tot	Ex
201	Pharmaceutics –II (Physical Pharmaceutics)	3	3	70	30	100	60	40	100
202	Pharmaceutics –II (Unit Operation –I & Engg.Drawing)	3	3	70	30	100	60	40	100
203	Pharmaceutical Chemistry- II(Organic)	3	3	70	30	100	60	40	100
204	Pharmaceutical Analysis – I	3	3	70	30	100	60	40	100
205	Pharmacology – I (Biochemistry & Pathophysiology)	3	3	70	30	100	60	40	100
206	Hospital Pharmacy	3	-	70	30	100	-	-	-
207	Biostatistics & Advanced Mathematics	3	-	70	30	100	-	-	-
208	Computer Applications in Pharmacy	3	3	70	30	100	60	40	100

**A-9****TABLE – IX****B.PHARMA – THIRD YEAR**

Paper No	Subject	Duration of Uni.Examination		Maximum Marks For					
				Theory			Practical		
				Th	Pr.	Ex	Se	Tot	Ex
301	Pharmaceutical Microbiology	3	3	70	30	100	60	40	100
302	Pharmaceutical Biotechnology	3	3	70	30	100	60	40	100
303	Medicinal Chemistry	3	3	70	30	100	60	40	100
304	Pharmacology – II (Pharmacology & Chemotherapy)	3	3	70	30	100	60	40	100
305	Pharmacognosy – II	3	3	70	30	100	60	40	100
306	Community Pharmacy (Including Clinical Pharmacy)	3	3	70	30	100	60	40	100
307	Pharmaceutical Industrial Management	3	-	70	30	100	-	-	-

**TABLE – X****B.PHARM – FINAL YEAR**

Paper No	Subject	Duration of Uni.Examination		Maximum Marks For					
				Theory			Practical		
				Th	Pr.	Ex	Se	Tot	Ex
401	Pharmaceutics –V (Biopharmaceutics, Pharmacokinetics & Dosage from Design)	3	4	70	30	100	60	40	100
402	Pharmaceutics –VI (Pharmaceutical Technology : Industrial Pharmacy)	3	4	70	30	100	-	-	-
403	Medicinal Chemistry – II	3	4	70	30	100	60	40	100
404	Pharmaceutical Analysis – II (Instrumental & Quality assurance)	3	4	70	30	100	60	40	100
405	Pharmacology – III (Pharmacology & Drug Bio – evaluation)	3	4	70	30	100	60	40	100
406	Pharmacognosy – III (Phyto Pharmaceuticals)	3	4	70	30	100	60	40	100
407	Elective	-	3	-	-	-	50	50	100

**A-10**

- NB : (I) The detailed syllabus of subjects :
- 201: Pharmaceutics – I (Physical Pharmaceutics)
  - 202: Pharmaceutics – II (Unit Operation – I & Engineering Drawing)
  - 207: Bio statistics & Advanced Mathematics
  - 208: Computer Applications in Pharmacy
- Show in scheme of instruction for D. Pharmacy students directly admitted to second Year B.Pharm, will be the same as that given for these subjects in the scheme of instruction for B.Pharm first Year
- (II) Scheme of Examination for Diploma Pharmacy Students directly admitted to Second Year B.Pharm shall be as shown in table – VIII