

No. 93

ORDINANCE FOR

Governing the Two-Year Diploma in Pharmacy Programme

[The Central Universities Act, 2009, Section 28(I)(b)]

Diploma in Pharmacy (D. Pharm.) effective from academic year 2022-23 and onwards.

Programme Title: Diploma in Pharmacy

Abbreviation: D. Pharm.

Type of Course: A Two years Diploma course

Pattern: Yearly

Award of the Degree: Diploma will be awarded for those passing in both the years as per rules and regulations.

1. DURATION OF THE PROGRAM:

The duration of the course shall be for two academic years, with each academic year spread over a period of not less than one hundred and eighty working days. A student taking admission in Diploma in Pharmacy should complete the program of study in a total duration of four years (total six attempts, i.e., 2 regular + 4 additional attempts six monthly in supplementary examination).

2. ELIGIBILITY FOR ADMISSION:

No candidate shall be admitted to Diploma in Pharmacy Part-I unless he/she had passed any of the following examinations in all the optional subjects and compulsory subjects (Physics, Chemistry, Biology and /or Mathematics including English as one of the Compulsory subjects):

- a) Intermediate examination in Science; The First Year of the three years degree course in Science; 10+2 Examination (Academic stream) in Science.
- b) Pre-degree examination; any other qualification approved by the Pharmacy Council of India as equivalent to any of the above exam.

Admission of candidates to the Diploma in Pharmacy Part - I shall be made in order of merit as per norms of university.

3. ELIGIBILITY FOR APPEARING IN EXAMINATION

(a) Eligibility for appearing at the Diploma in Pharmacy Part-I Examination: Only such candidates who produce certificate from the Head of the Academic Institution in which he/she has undergone the Diploma in Pharmacy Part-I course, 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, shall be eligible for appearing at the Diploma in Pharmacy (Part-I) examination.

(b) Eligibility for appearing at the Diploma in Pharmacy Part-II Examination: Only such candidates who produce certificate from the Head of the academic institution in which he/she has undergone the Diploma in Pharmacy Part-II course, in proof of his/her having regularly and satisfactorily attending not less than 75% of the classes held both in theory and practical's separately in each subject, shall be eligible for appearing at the Diploma in Pharmacy (Part-II) examination.

4. GENERAL

(a) Diploma in Pharmacy Part-I and Diploma in Pharmacy Part-II shall include the courses as given in the Tables I & II (Annexure-I). The number of hours devoted to each subject for its teaching is given against columns 4 and 5 of the Tables I & II (Annexure-I). Theory and practical are to be considered as individual courses. D. Pharm. syllabus shall have the following structure in every course.

Scope: These are broader statements on the purpose of the course in the curriculum, key contents of the course that will contribute to the specific knowledge and or skill developments. The teacher is expected to orient the students about the scope of the particular course at the beginning and intermittently.

Course Objectives: The course objectives describe the key topics that are intended by the teacher to be covered in the course. In general, these are more specific than the scope and broader than the course outcomes. The teacher is expected to discuss the objectives of the course with the students and break-down the course objectives into micro levels as objectives of a specific topic / objectives of a specific lecture, etc. Such an exercise shall make the students to understand the significance of the course / topic / lecture and enhance their attention on the course / topic / lecture.

Course Outcomes: The course outcomes are more specific than the course objectives describe that describe the abilities of the students to perform/act, upon successful completion of the course. Hence, conventionally the course outcomes are described with verbs that are measurable or observable actions. The teacher is expected to describe the desired outcomes of the particular course, so that the students shall understand the various assessment criteria, modalities, and parameters. This also serves as a broader guideline for the teachers for preparing the assessment plan. A well-structured assessment plan associated with the course outcomes shall enable to mapping with the professional competencies and their attainment levels that are attributed to the program outcomes.

Theory Courses: The theory courses basically provide concepts and explain the relationships between the concepts. Understanding of the theoretical courses enables the students to identify the problems in real life situation and make a plan for addressing such problems. Also, the theory course helps to

understand what is not known and thus is the tool for accumulation of knowledge. The syllabus of the theory courses has been systematically and logically described as different chapters and the minimum number of hours to be spent on teaching is mentioned chapter wise and course wise. The teachers shall further distribute the total hours of any given chapter among the sub-topics as required by the subject matter.

Practical Courses: The practical courses are designed for applying the theoretical knowledge in the given experimental / simulated conditions. The practical courses deepen the understanding of theories, develop the skills, hone professional competencies, provide opportunities to observe, think and analyses problem solving methods. Further, they help to gain experience with the real things in practice. The teachers shall train the students in actual / simulated practical conditions.

Tutorials: The purpose of the tutorial hour is typically to engage the students in smaller groups in order to pay a closer attention on their learning process. This is an opportunity for the students to complete their assignments, develop specific skills and discuss any problems in the study topics in a less formal way. During the tutorial hour, the students shall exchange their ideas within the small group, and learn to accept constructive criticism and listen to others. Also, the tutorial hour enables the teachers to closely monitor the progress of the individual student and provide additional academic support to individuals, if necessary.

Assignments: The purpose the assignments are to encourage the students for selfdirected learning. Further, the assignments will provoke critical thinking; enhance the skills such as literature search, data mining, data interpretation, report formatting, time-management and written communication. This is also a mode of selfassessment for the student about the level of understanding of the concepts of a particular course. The teachers shall apply their knowledge and wisdom in choosing the assignment topics at a micro level in alignment with the topics given in the syllabus. The assignments shall be evaluated against a set of criteria. A typical format for the assessment of an assignment is given in Appendix -1.

Field Visits: The purpose of field visits is to provide a real-world experience to the students. The field visits will help them to realize that what they learn within the walls of the classroom / laboratory can help them solve the problems they see in the world around them. Also, this is helpful to the teachers to widen their horizons of knowledge and broadening the scope of the syllabus. Every student shall submit a report describing their objectives, experience, learning points, etc. pertaining to the field trip, in the typical format given in Appendix-2.

Recommended Books: For each course, a list of recommended books is given in the syllabus. The list shall be considered as an important and common resource for the teaching-learning process, but not the complete list. It is always encouraged to use the latest edition of the books specified. Further, the teachers and students are encouraged to explore more primary, secondary, and tertiary resources as required.

Practical Training: The goal of the practical training for the students is to provide a real-time, supervised experience on the professional tasks emphasized in their course of study. Further, it helps

them to apply their acquired knowledge and skills in the professional working environment. The practical training intensively prepares the students with adequate competencies and qualifications required for the career opportunity in the future.

Thus, the D. Pharm. syllabus is designed to nurture the students in all the three domains of Bloom's Taxonomy viz. cognitive (knowledge), affective (attitude) and psychomotor (skills). Further, it also provides ample of scope to the students for different learning styles viz. visual, auditory and kinesthetic, i.e., 'see, hear and do'.

The summary of the curriculum, courses and other activities and their metrics across the D. Pharm. program (Part I, II & III) are given here.

Criteria	Metrics
Number of subject areas (considering both theory & practical together)	11
Number of theory courses	11
Number of practical courses	10
Number of theory hours	825
Number of practical hours	600
Number of practical training hours	500
Number of tutorial hours	275
Number of course outcomes for theory courses	45
Number of course outcomes for practical courses	40
Number of courses which have given assignments	9
Number of assignment topics given	75
Number of assignments reports each student shall submit	27
Number of courses which have field visit	5
Number of field visit reports each student shall submit	9
Number of professional competencies	10

(b) Examinations: There shall be an examination for Diploma in Pharmacy (Part-I) to examine students of the first year and an examination for Diploma in Pharmacy (part-II) to examine students of the second year. Each examination may be held twice every year. The first examination in every year shall

be the annual examination and the second examination shall be supplementary examination of the Diploma in Pharmacy (Part-I) or Diploma in Pharmacy (Part-II) as the case may be. The examinations shall have written and practical (including oral) nature, carrying maximum marks for each part of course, as indicated in Table III and IV (Annexure 2).

(i) Sessional (Theory) Examinations

There shall be three sessional (internal assessment) examinations during each academic year. The duration of the sessional exam shall be 90 minutes. The highest aggregate of any two performances shall form the basis of calculating the sessional marks. The scheme of the question paper for theory sessional examinations shall be as given below.

I. Long Answers (Answer 3 out of 4)	3 x 5 = 15
II. Short Answers (Answer 5 out of 6)	5 x 3 = 15
III. Objective type Answers (Answer all 10 out of 10)	10 x 1 = 10
(Multiple Choice Questions / Fill-in the Blanks / One word OR one Sentence questions)	----- Total = 40 marks -----

(ii) Internal assessment: The marks secured by the students out of the total 40 shall be reduced to 20 in each sessional, and then the internal assessment shall be calculated based on the best two averages for 20 marks.

(iii) Final Board / University Examinations

The scheme of the question paper for the theory examinations conducted by the examining authority (Board / University) shall be as given below. The duration of the final examination shall be 3 hours.

I. Long Answers (Answer 6 out of 7)	=	6 x 5 = 30
II. Short Answers (Answer 10 out of 11)	=	10 x 3 = 30
III. Objective type Answers (Answer all 20) (Multiple Choice Questions / Fill-in the Blanks / One word OR one Sentence questions)	=	20 x 1 = 20

Total = 80 marks

(iv) Practical Sessional Examinations

There shall be three sessional (internal assessment) practical examinations during each academic year. The duration of the sessional exam shall be three hours. The highest aggregate of any two performances shall form the basis of calculating the sessional marks. The scheme of the question paper for practical sessional examinations shall be as given below.

I.	Synopsis	=	10
II.	Experiments	=	50*
III.	Viva voce	=	10
IV.	Practical Record Maintenance	=	10

Total = 80 marks

* The marks for the experiments shall be divided into various categories, viz. major experiment, minor experiment, spotters, etc. as per the requirement of the course.

(v) Internal assessment: The marks secured by the students out of the total of 80 shall be reduced to 10 in each sessional, and then the internal assessment shall be calculated based on the best two averages for 10 marks from the sessional and other 10 marks shall be awarded as per the details given below.

Actual performance in the sessional examination	=	10 marks
Assignment marks (Average of three)	=	5 marks*

Field Visit Report marks (Average for the reports)	=	5 marks ^{\$}

Total	=	20 marks

*, ^{\$} Only for the courses given with both assignments and field visit/s.

Note:

1. For the courses having either assignments or field visit/s, the assessments of assignments or field visit/s shall be done directly for 10 marks and added to the sessional marks.
2. For the courses not having both assignment and field visit, the whole 20 marks shall be calculated from the sessional marks.

(vi) Final Board / University Examinations

The scheme of the question paper for the practical examinations conducted by the examining authority (Board / University) shall be as given below. The duration of the final examination shall be 3 hours.

I.	Synopsis	=	10
II.	Experiments	=	60*
III.	Viva voce	=	10

	Total	=	80 marks

* The marks for the experiments shall be divided into various categories, viz. major experiment, minor experiment, spotters, etc. as per the requirement of the course.

5. Working out of Result

(a) Mode of examinations:

Each theory and practical examination in the courses mentioned in Table-III & IV (Annexure-2) shall be of three hours duration. A Candidate who fails in theory or practical examination of a subject shall reappear in such theory or practical paper(s) as the case may be. Practical examination shall also consist of a viva-voce (Oral) examination.

(b) Minimum marks for passing the examination:

A student shall not be declared to have passed Diploma in Pharmacy examination unless he /she secures at least 40% marks in each of the course separately in the theory examinations, including sessional marks and at least 40% marks in each of the practical examinations including sessional marks. The candidates securing 60% marks or above in aggregate in all courses in a single attempt at the Diploma in Pharmacy (Part-I) or Diploma in Pharmacy (Part-II) examinations shall be declared to have passed in first class the Diploma in Pharmacy (Part-I) or Diploma in Pharmacy (Part-II) examinations, as the case may be. Candidates securing 75% marks or above in any course or courses provided he/she passes in all the courses in a single attempt, will be given distinction in that course(s).

(c) Eligibility for promotion to Diploma in Pharmacy (Part-II):

All candidates who have appeared for all the courses and passed the Diploma in Pharmacy Part-I class. However, failure in more than two courses (each theory paper or practical examination shall be considered as a course) shall debar him/ from promotion to the Diploma in Pharmacy Part-II class. Such candidates shall be examined in the failing subjects only at subsequent examination.

(d) Improvement of Sessional marks: Candidates who wish to improve sessional marks can do so by appearing in two additional sessional examinations during the next academic year. The average score of the two examinations shall be the basis for improved sessional marks in theory. The sessional of practicals shall be improved by appearing in additional practical examinations. Marks awarded to a candidate for Assignment and / or Field Visit Report, cannot be improved unless he/she attends a regular course of study again.

(e) Certificate of passing examination for Diploma in Pharmacy (Part-II): Certificate to having passed the examination for the Diploma in Pharmacy Part II shall be granted by the Examining Authority to a successful student.

(f) Certificate of Diploma in Pharmacy: A certificate of Diploma in Pharmacy shall be granted by the Examining Authority to successful candidate on producing certificate of having passed the Diploma in Pharmacy Part I and Part II.

TABLE-I: Diploma in Pharmacy (Part-I)

S. No.	Course Code	Name of the Course	Total Theory / Practical Hours	Total Tutorial Hours	Theory / Practical Hours per Week	Tutorial Hours per Week
1.	ER20-11T	Pharmaceutics – Theory	75	25	3	1
2.	ER20-11P	Pharmaceutics – Practical	75	-	3	-
3.	ER20-12T	Pharmaceutical Chemistry – Theory	75	25	3	1
4.	ER20-12P	Pharmaceutical Chemistry – Practical	75	-	3	-
5.	ER20-13T	Pharmacognosy – Theory	75	25	3	1
6.	ER20-13P	Pharmacognosy – Practical	75	-	3	-
7.	ER20-14T	Human Anatomy & Physiology – Theory	75	25	3	1
8.	ER20-14P	Human Anatomy & Physiology – Practical	75	-	3	-
9.	ER20-15T	Social Pharmacy – Theory	75	25	3	1
10.	ER20-15P	Social Pharmacy – Practical	75	-	3	-

TABLE-II: Diploma in Pharmacy (Part-II)

S. No.	Course Code	Name of the Course	Total Theory / Practical Hours	Total Tutorial Hours	Theory / Practical Hours per Week	Tutorial Hours per Week
1.	ER20-21T	Pharmacology – Theory	75	25	3	1
2.	ER20-21P	Pharmacology – Practical	50	-	2	–
3.	ER20-22T	Community Pharmacy & Management – Theory	75	25	3	1
4.	ER20-22P	Community Pharmacy & Management – Practical	75	-	3	–
5.	ER20-23T	Biochemistry & Clinical Pathology – Theory	75	25	3	1
6.	ER20-23P	Biochemistry & Clinical Pathology – Practical	50	-	2	–
7.	ER20-24T	Pharmacotherapeutics – Theory	75	25	3	1
8.	ER20-24P	Pharmacotherapeutics – Practical	25	-	1	–
9.	ER20-25T	Hospital & Clinical Pharmacy – Theory	75	25	3	1
10.	ER20-25P	Hospital & Clinical Pharmacy – Practical	25	-	1	–
11.	ER20-26T	Pharmacy Law & Ethics	75	25	3	1

TABLE-III: Diploma in Pharmacy (Part-I)

S. No.	Course Code	Name of the Course	Maximum Marks		
			Sessional Examination	Final Examination	Total
1.	ER20-11T	Pharmaceutics – Theory	20	80	100
2.	ER20-11P	Pharmaceutics – Practical	20	80	100
3.	ER20-12T	Pharmaceutical Chemistry – Theory	20	80	100
4.	ER20-12P	Pharmaceutical Chemistry – Practical	20	80	100
5.	ER20-13T	Pharmacognosy – Theory	20	80	100
6.	ER20-13P	Pharmacognosy – Practical	20	80	100
7.	ER20-14T	Human Anatomy & Physiology – Theory	20	80	100
8.	ER20-14P	Human Anatomy & Physiology – Practical	20	80	100
9.	ER20-15T	Social Pharmacy – Theory	20	80	100
10.	ER20-15P	Social Pharmacy – Practical	20	80	100

TABLE-IV: Diploma in Pharmacy (Part-II)

S. No.	Course Code	Name of the Course	Maximum Marks		
			Sessional Examination	Final Examination	Total
1.	ER20-21T	Pharmacology – Theory	80	20	100
2.	ER20-21P	Pharmacology – Practical	80	20	100
3.	ER20-22T	Community Pharmacy & Management – Theory	80	20	100
4.	ER20-22P	Community Pharmacy & Management – Practical	80	20	100
5.	ER20-23T	Biochemistry & Clinical Pathology – Theory	80	20	100
6.	ER20-23P	Biochemistry & Clinical Pathology – Practical	80	20	100
7.	ER20-24T	Pharmacotherapeutics – Theory	80	20	100
8.	ER20-24P	Pharmacotherapeutics – Practical	80	20	100
9.	ER20-25T	Hospital & Clinical Pharmacy – Theory	80	20	100
10.	ER20-25P	Hospital & Clinical Pharmacy – Practical	80	20	100
11.	ER20-26T	Pharmacy Law & Ethics	80	20	100

Appendix – 1

A typical format for the assessment of an Assignment

Name of the College:

Name of the Student:	
Academic Year of the Student:	
Name of the Subject:	
Title of the Assignment:	
Date on which the Assignment was given:	
Date on which the Assignment was submitted:	
Name & Designation of the Evaluator:	
Signature of the Evaluator with Date:	

Directions: For evaluation, enter rating of the student utilizing the following scale:

5 – Excellent; 4 - Very Good; 3 – Good; 2 – Satisfactory; 1 - Poor

Assessment Criteria	Score	Comments if any
a. Relevance with the content		
b. Use of resource material		
c. Organization & mechanical accuracy		
d. Cohesion & coherence		
e. Language proficiency & Timely submission		
Total Score		

Signature of the Student with Date:

Note:

Subject teacher should try to cover all assignments mentioned in the list for each practical subject by assigning the topics to the students. Students should be encouraged to submit an assignment (in a format decided by the Institute) and encouraged to present assignments (at least any one assignment per subject) in the class.

Appendix – 2

A typical format for the assessment of a Field Visit Report

Name of the College:

Name of the Student:	
Academic Year of the Student:	
Name of the Subject:	
Name & full address of the organization visited:	
Date and Duration of Visit:	
Name & Designation of the Evaluator:	
Signature of the Evaluator with Date:	

Objectives set for the field visit: (give 2 – 4 objectives one by one)
Prior preparation of the student for the field visit: (minimum 100 words)
Describe the general experiences during the field visit: (minimum 100 words)
Learning points: Describe what theoretical concept that is correlated during the field visit: (minimum 300 words)