



**DHANALAKSHMI SRINIVASAN
UNIVERSITY**

Samayapuram, Tiruchirappalli – 621 112, Tamilnadu, India.

REGULATIONS AND CURRICULUM

for

BACHELOR OF PHARMACY (B.Pharm)

DEGREE PROGRAM

[Credit Based Semester System]

(Effective from the Academic year 2024–2025)

**Bachelor of Pharmacy
(Regulations and Curriculum 2024-2025)**

Introduction

The Bachelor of Pharmacy (B. Pharm) is a 4-year program offered by the School of Pharmacy, Dhanalakshmi Srinivasan University, Trichy as per guidelines of the Pharmacy Council of India, is designed to produce graduates with comprehensive knowledge and practical skills in the pharmaceutical sciences. The syllabus covers relevant topics and a research project in the key areas of Pharmacy including Pharmaceutics, Pharmacognosy, Pharmaceutical Chemistry, Pharmacology and Pharmacy Practice. This undergraduate program aims to create highly qualified professional leaders in the pharmaceutical industry and healthcare procedures deepened with excellent skills in communication, research and services.

Programme Outcomes (PO)

The program outcomes are structured to ensure that graduates are well-prepared to meet the professional demands and ethical standards of the pharmaceutical industry. The key outcomes are:

- PO1 Pharmaceutical Knowledge:** Graduates will acquire a robust foundation in pharmaceutical sciences, including pharmacology, medicinal chemistry, pharmaceutics, and pharmacognosy, enabling them to understand and apply this knowledge in professional practice.
- PO2 Planning Abilities:** Graduates will develop effective planning skills to design and execute experiments, manage resources efficiently, and undertake project work with a clear understanding of the objectives and methodologies involved.
- PO3 Problem Analysis:** Graduates will be adept at identifying, formulating, and analyzing complex pharmaceutical problems, using principles of mathematics, science, and pharmacy to draw well-supported conclusions.

- P04 **Modern Tool Usage:** Graduates will be proficient in using contemporary techniques, tools, and software essential for pharmaceutical practice, ensuring accuracy and efficiency in their work.
- P05 **Leadership and Teamwork:** Graduates will demonstrate the ability to work effectively both as individuals and as members or leaders of diverse teams, exhibiting professional behaviour and effective communication skills.
- P06 **Pharmaceutical Ethics:** Graduates will understand and commit to professional and ethical responsibilities, adhering to the legal and regulatory framework governing the practice of pharmacy.
- P07 **Communication:** Graduates will be able to communicate effectively with the pharmaceutical community and society at large, conveying complex technical information clearly and concisely.
- P08 **The Pharmacist and Society:** Graduates will understand the impact of pharmaceutical solutions in societal and environmental contexts, promoting sustainable and safe practices.
- P09 **Environment and Sustainability:** Graduates will appreciate the importance of environmental stewardship and sustainable development in the pharmaceutical industry, implementing practices that minimize environmental impact.
- P010 **Lifelong Learning:** Graduates will recognize the necessity of continuous professional development and lifelong learning to stay abreast of advancements in the field and to maintain professional competence.
- P011 **Clinical and Community Health:** Graduates will be equipped to provide healthcare advice and services in clinical and community settings, contributing to the health and well-being of the public.
- P012 **Entrepreneurship** - Develop entrepreneurship skills that support the growth of the Pharmaceutical Industry / Pharmaceutical Services leading to economic development.

1. Short Title and Commencement

These regulations may be called “B.Pharm., Degree Programme- Regulations and Curriculum 2024-2025” of Dhanalakshmi Srinivasan University, Trichy. The regulations framed are subject to such modifications as may be approved by the Academic Council from time to time.

2. Minimum qualification for admission

12.1 First year B. Pharm:

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

2.2. B. Pharm lateral entry (to third semester):

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

3. Duration of the program

The course of study for B. Pharm shall extend for 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 the Pharmacy Council of India, New Delhi.

4. Medium of instruction and examinations

The medium of instruction and examination shall be in English.

5. Working days in each semester

Each semester shall consist of not less than 100 working days. The odd semesters shall be conducted from 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.

7.1 Credit assignment

7.1.1 Theory and Laboratory Courses

Courses are broadly classified as Theory and Practical. Theory courses consist of lecture (L) and /or tutorial (T) hours, and Practical (P) courses consist of hours spent in the laboratory. Credits (C) for a course are 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.

Table I: Credits for Theory and Practical

Category	Credits	Syllabus units
Core Theory	4	5
Core Lab	2	10- 15 experiments
Core Project (GROUP)	7	

7.1.2 Minimum credit requirements

The minimum credit points required for the award of a B. Pharm. degree is 211. These credits are divided into Theory courses, Tutorials, Practical, Practice School and Project for eight semesters. The credits are distributed semester-wise as shown in Table I and II. 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. Personality and character development

All students shall enroll, on admission, in any one of the personality and character development programmes NCC/NSS/NSO/YRC and undergo training / conduct activities for about 80 hours and attend a camp of about seven days. The training shall include classes on hygiene and health awareness and also training in first aid. Alternately, activities of science, literature and arts also help for personality and character development. So, students shall conduct and participate actively in science club/Literary Forum/Fine Arts activities for 80 hours and participate in at least ONE event.

- i. National Cadet Corps (NCC) will have about 20 parades.
- ii. National Service Scheme (NSS) will have social service activities in and around the College / Institution.

- iii. National Sports Organization (NSO) will have Sports, Games, Drills and Physical exercises.
- iv. Youth Red Cross (YRC) will have activities related to social services in and around College/Institution.
- v. While the training activities will normally be during weekends, the camp will normally be during vacation period.
- vi. Science club shall organise activities of popularization of science and scientific temper through activities related to astronomy, works of great scientists from India and abroad, observing National Science Day, etc.
- vii. Literary Club like 'Tamil Ilakkiya Mandram' shall be formed, which shall organize colourful literary events to propagate good humanist values, morals and ethics reflected in the literature.
- viii. Fine Arts Club like music, painting and documentary films with social themes shall be encouraged.
- ix. Students who enroll and take active participation in anyone of the above activities for 80 hours and participate at least one event/programme will be given a certificate by the Head of the Institution and the copy of the same shall be forwarded to the Controller of Examinations for the purpose of record and scrutiny.

10. Course of study

The course of study for B. Pharm shall include Semester Wise Theory & Practical as given in Table – IV to XI. 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 – IV to XI.

Table II: Category of Courses -Bachelor of Pharmacy

SEMESTER	CORE COURSE (68)		Total Credits
	THEORY	PRACTICAL	
I	BP101T	BP107P	
	BP102T	BP108P	
	BP103T	BP109P	
	BP104T	BP110P	
	BP105T*	BP111P*	
	BP106RBT/ BP106RMT*	BP112 RBT*	
Total credits	20	10	27/29^s/30[#]
II	BP201T	BP207P	
	BP202T	BP208P	
	BP203T	BP209P	
	BP204T	-	
	BP205T*	BP210P*	
BP206T*			
Total credits	22	7	29
III	BP301T	BP305P	
	BP302T	BP306P	
	BP303T	BP307P	
	BP304T	BP308P	
Total credits	16	8	24
IV	BP401T		
	BP402T	BP406P	
	BP403T	BP407P	
	BP404T	BP408P	
	BP405T	BP409P	
Total credits	20	8	28
V	BP501T		
	BP502T	BP506P	
	BP503T	BP507P	
	BP504T	BP508P	
	BP505T	-	
Total credits	20	6	26
VI	BP601T	BP607P	
	BP602T	BP608P	
	BP603T	BP609P	
	BP604T	-	
	BP605T	-	
	BP606T	-	
Total credits	24	6	30
VII	BP701T	BP705P	
	BP702T	-	
	BP703T	-	
	BP704T	-	
		BP706PS*	
Total credits	16	8	24
VIII	BP801T	-	
	BP802T	-	
	BP803ET- BP807ET	-	
	BP808ET-BP812ET	-	
	-	BP813PW	
Total Credits	16	7	23
Grand Total Credit Points			211/213^s/214[#]

*NUE-Non University Exams

Table III: Total Credits for Semester I-VIII

Semester	Credit Points
I	27/29 ^{\$} /30 [#]
II	29
III	24
IV	28
V	26
VI	30
VII	24
VIII	23 [@]
Total credit points for the program	211/213^{\$}/214[#]

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

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

^{\$ #}Credit points will be reflected in the final marks statement

[@] Involves one credit point for Extracurricular/ Cocurricular activities

Table IV: Course of Study for Semester I

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

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

§Applicable 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 V: 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 VI: 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 VII: Course of study for Semester IV

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

Table VIII: 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 Pharmacy I- 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 Pharmacy I – Practical	4	-	2
BP507P	Pharmacology II – Practical	4	-	2
BP508P	Pharmacognosy and Phytochemistry II – Practical	4	-	2
Total		27	5	26

Table-IX: 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-X: Course of study for semester VII

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP701T	Instrumental Methods of Analysis – Theory	3	1	4
BP702T	Industrial Pharmacy II – 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-XI: 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	Pharma Marketing Management	3 + 3 = 6	1 + 1 = 2	4 + 4 = 8
BP804ET	Pharmaceutical Regulatory Science			
BP805ET	Pharmacovigilance			
BP806ET	Quality Control and Standardization of Herbals			
BP807ET	Computer Aided Drug Design			
BP808ET	Cell and Molecular Biology			
BP809ET	Cosmetic Science			
BP810ET	Experimental Pharmacology			
BP811ET	Advanced Instrumentation Techniques			
BP812ET	Dietary Supplements and Nutraceuticals			
BP813PW	Project Work	12	-	6
Total		24	4	22

Table-II: Semester-wise credit distribution

Semester	Credit Points
I	27/29 [§] /30 [#]
II	29
III	26
IV	28
V	26
VI	26
VII	24
VIII	22
Extracurricular/ Co-curricular activities	01*
Total credit points for the program	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 colleges from time to time.

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

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

11. 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), be nominated by the Head of the institution.
3. Duties of the Program Committee:
 - i. Periodically reviewing the progress of the classes.
 - ii. Discussing the problems concerning curriculum, syllabus and the conduct of classes.
 - iii. Discussing with the course teachers on the nature and scope of assessment for the course and the same shall be announced to the students at the beginning of respective semesters.
 - iv. Communicating its recommendation to the Head of the institution on academic matters.
 - v. The Program Committee shall meet at least thrice in a semester preferably at the end of each Sessional exam (Internal Assessment) and before the end semester exam.

12. Practice School

In the VII semester, every candidate shall undergo practice school for a period of 21 days (150 hours) evenly distributed throughout the semester and it carries 6 credits. The student shall be posted for clinical rotations/ ward round participation in the hospital settings for practice school as 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). One month before the commencement of university 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 the college level (25 marks for CAT and 125 marks for qualifying exams with 75 for report preparation and 50 for presentation) and credits and grade point shall be awarded for the same. The marks obtained shall be sent to the office of the COE, 15 days before the commencement of the VII semester University exam. The format is given below:

Table XII. Evaluation of Practice School Report

Contents	Marks
Objective(s) of the work	15 Marks
Content development/Methodology	20 Marks
Collaboration & Teamwork	15 Marks
Conclusions and Outcomes	25 Marks
Total	75 Marks

Table XIII. Evaluation of Practice School Presentation

Contents	Marks
Presentation skills	20 Marks
Communication skills	10 Marks
Viva	20 Marks
Total	50 Marks

The 75 marks assigned to the report shall be awarded to the students individually. 50 marks assigned for presentation shall be awarded based on the performance of individual students in the given criteria. (Table XIII). 25 marks allotted for CAT is also evaluated by the internal expert. The marks will be sent to the Controller of Examinations 15 days before the commencement of the University Examination.

13. Examinations/Assessments

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

13.1 End semester examinations

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

Tables-XIV: Schemes for internal assessments and end-semester examinations semester-wise Semester I

Course code	Name of the course	Continuous Mode	Internal Assessment		End Semester Exams		Total Marks	
			Sessional Marks	Sessional Exams Duration	Marks	Duration		
BP101T	Human Anatomy and Physiology I – Theory	10	15	1 Hr	75	3 Hrs	100	
BP102T	Pharmaceutical Analysis I – Theory	10	15	1 Hr	75	3 Hrs	100	
BP103T	Pharmaceutics I – Theory	10	15	1 Hr	75	3 Hrs	100	
BP104T	Pharmaceutical Inorganic Chemistry – Theory	10	15	1 Hr	75	3 Hrs	100	
BP105T	Communication skills – Theory*	5	10	1 Hr	35	1.5 Hrs	50	
BP106RBT BP106RMT	Remedial Biology/ Mathematics – Theory*	5	10	1 Hr	35	1.5 Hrs	50	
BP107P	Human Anatomy and Physiology – Practical	5	10	4 Hrs	35	4 Hrs	50	
BP108P	Pharmaceutical Analysis I – Practical	5	10	4 Hrs	35	4 Hrs	50	
BP109P	Pharmaceutics I – Practical	5	10	4 Hrs	35	4 Hrs	50	
BP110P	Pharmaceutical Inorganic Chemistry – Practical	5	10	4 Hrs	35	4 Hrs	50	
BP111P	Communication skills – Practical*	5	5	2 Hrs	15	2 Hrs	25	
BP112RBP	Remedial Biology – Practical*	5	5	2 Hrs	15	2 Hrs	25	
Total		70/75\$/80#	115/125\$/130#	23/24\$/26# Hrs	185/200\$/210#	490/525\$/540#	31.5/33\$/35# Hrs	675/725\$/750#

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

* The subject experts at college level shall conduct examinations

Semester III

Course code	Name of the course	Continuous Mode		Internal Assessment		End Semester Exams			Total Marks
		Mode	Marks	Sessional Exams	Duration	Marks	Duration	Total	
BP301T	Pharmaceutical Organic Chemistry II – Theory	10	15	1 Hr	1 Hr	75	3 Hrs	25	100
BP302T	Physical Pharmaceutics I –Theory	10	15	1 Hr	1 Hr	75	3 Hrs	25	100
BP303T	Pharmaceutical Microbiology – Theory	10	15	1 Hr	1 Hr	75	3 Hrs	25	100
BP304T	Pharmaceutical Engineering – Theory	10	15	1 Hr	1 Hr	75	3 Hrs	25	100
BP305P	Pharmaceutical Organic Chemistry II – Practical	5	10	4 Hr	4 Hr	35	4 Hrs	15	50
BP306P	Physical Pharmaceutics I – Practical	5	10	4 Hr	4 Hr	35	4 Hrs	15	50
BP307P	Pharmaceutical Microbiology – Practical	5	10	4 Hr	4 Hr	35	4 Hrs	15	50
BP308P	Pharmaceutical Engineering – Practical	5	10	4 Hr	4 Hr	35	4 Hrs	15	50
Total		60	100	20 Hrs	20 Hrs	440	28Hrs	160	600

Semester IV

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

Semester V

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

Semester VI

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

Semester VII

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP701T	Instrumental Methods of Analysis – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP702T	Industrial Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP703T	Pharmacy Practice – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP704T	Novel Drug Delivery System – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP705 P	Instrumental Methods of Analysis – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP706 PS	Practice School*	25	-	-	25	125	5 Hrs	150
Total		70	70	8 Hrs	140	460	21 Hrs	600

* The subject experts at college level shall conduct examinations

Semester VIII

Course code	Name of the course	Internal Assessment			End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams Marks	Duration	Marks	Duration	
BP801T	Biostatistics and Research Methodology – Theory	10	15	1 Hr	75	3 Hrs	100
BP802T	Social and Preventive Pharmacy – Theory	10	15	1 Hr	75	3 Hrs	100
BP803ET1	Pharmaceutical Marketing – Theory						
	Pharmaceutical Regulatory Science – Theory						
	Pharmacovigilance – Theory						
	Quality Control and Standardization of Herbs – Theory						
	Computer Aided Drug Design – Theory	10 + 10 = 20	15 + 15 = 30	1 + 1 = 2 Hrs	75 + 75 = 150	3 + 3 = 6 Hrs	100 + 100 = 200
BP804ET2	Cell and Molecular Biology – Theory						
	Cosmetic Science – Theory						
	Experimental Pharmacology – Theory						
	Advanced Instrumentation Techniques – Theory						
	Dietary Supplements and Nutraceuticals – Theory						
BP813PW	Pharmaceutical Product Development- Theory						
	Project Work	-	-	-	150	4 Hrs	150
Total		40	60	4 Hrs	450	16 Hrs	550

TABLES XVI INTERNAL EXAMINATIONS + UNIVERSITY EXAMINATIONS:

SEMESTER-I:

Name of the subjects	INTERNAL EXAMS (Minimum: No Minimum)		University Semester Exams Marks	Total Marks (Internal + Semester Exams)	
	Maximum	Total		Minimum	Maximum
Human Anatomy and Physiology I – Theory	25	25	75	50	100
Pharmaceutical Analysis I – Theory	25	25	75	50	100
Pharmaceutics I – Theory	25	25	75	50	100
Pharmaceutical Inorganic Chemistry – Theory	25	25	75	50	100
Communication skills – Theory *	15	15	35	25	50
Remedial Biology/ Mathematics – Theory*	15	15	35	25	50
Human Anatomy and Physiology – Practical	15	15	35	25	50
Pharmaceutical Analysis I – Practical	15	15	35	25	50
Pharmaceutics I – Practical	15	15	35	25	50
Pharmaceutical Inorganic Chemistry – Practical	15	15	35	25	50
Communication skills – Practical*	10	10	15	12.5	25
Remedial Biology – Practical*	10	10	15	12.5	25
TOTAL					750

SEMESTER-II:

Name of the subjects	INTERNAL EXAMS (Minimum: No Minimum)		University Semester Exams Marks	Total Marks (Internal + Semester Exams)	
	Maximum	Total		Minimum	Maximum
Human Anatomy and Physiology II - Theory	25	25	75	50	100
Pharmaceutical Organic Chemistry I- Theory	25	25	75	50	100
Biochemistry - Theory	25	25	75	50	100
Pathophysiology - Theory	25	25	75	50	100
Computer Applications in Pharmacy -Theory*	25	25	50	37.5	75
Environmental sciences - Theory*	25	25	50	37.5	75
Human Anatomy and Physiology II -Practical	15	15	35	25	50
Pharmaceutical Organic Chemistry I- Practical	15	15	35	25	50
Biochemistry - Practical	15	15	35	25	50
Computer Applications in Pharmacy -Practical*	10	10	15	12.5	25
TOTAL					725

SEMESTER III:

Name of the subjects	INTERNAL EXAMS (Minimum: No Minimum)		University Semester Exams Marks	Total Marks (Internal + Semester Exams)	
	Maximum	Total		Minimum	Maximum
Pharmaceutical Organic Chemistry II – Theory	25	25	75	50	100
Physical Pharmaceutics I – Theory	25	25	75	50	100
Pharmaceutical Engineering- Theory	25	25	75	50	100
Pharmaceutical Microbiology – Theory	25	25	75	50	100
Pharmaceutical Organic Chemistry II – Practical	15	15	35	25	50
Physical Pharmaceutics I – Practical	15	15	35	25	50
Pharmaceutical Microbiology –Practical	15	15	35	25	50
Pharmaceutical Engineering –Practical	15	15	35	25	50
TOTAL					600

SEMESTER IV

Name of the subjects	INTERNAL EXAMS (Minimum: No Minimum)		University Semester Exams Marks	Total Marks (Internal + Semester Exams)	
	Maximum	Total		Minimum	Maximum
Pharmaceutical Organic Chemistry III- Theory	25	25	75	50	100
Medicinal Chemistry I – Theory	25	25	75	50	100
Physical Pharmaceutics II – Theory	25	25	75	50	100
Pharmacology I – Theory	25	25	75	50	100
Pharmacognosy and Phytochemistry I – Theory	25	25	75	50	100
Medicinal Chemistry I – Practical	15	15	35	25	50
Physical Pharmaceutics II – Practical	15	15	35	25	50
Pharmacology I – Practical	15	15	35	25	50
Pharmacognosy and Phytochemistry I – Practical	15	15	35	25	50
TOTAL					700

SEMESTER V

Name of the subjects	INTERNAL EXAMS (Minimum: No Minimum)		University Semester Exams Marks	Total Marks (Internal + Semester Exams)	
	Maximum	Total		Minimum	Maximum
Medicinal Chemistry II- Theory	25	25	75	50	100
Industrial Pharmacy I- Theory	25	25	75	50	100
Pharmacology II- Theory	25	25	75	50	100
Pharmacognosy and Phytochemistry II- Theory	25	25	75	50	100
Pharmaceutical Jurisprudence- Theory	25	25	75	50	100
Industrial Pharmacy I Practical	15	15	35	25	50
Pharmacology II Practical	15	15	35	25	50
Pharmacognosy and Phytochemistry II Practical	15	15	35	25	50
TOTAL					650

SEMESTER VI

Name of the subjects	INTERNAL EXAMS (Minimum: No Minimum)		University Semester Exams Marks	Total Marks (Internal + Semester Exams)	
	Maximum	Total		Minimum	Maximum
Medicinal Chemistry III – Theory	25	25	75	50	100
Pharmacology III- Theory	25	25	75	50	100
Herbal Drug Technology – Theory	25	25	75	50	100
Biopharmaceutics and Pharmacokinetics- Theory	25	25	75	50	100
Pharmaceutical Biotechnology	25	25	75	50	100
Quality Assurance	25	25	75	50	100
Medicinal Chemistry III Practical	15	15	35	25	50
Pharmacology III Practical	15	15	35	25	50
Herbal Drug Technology – Practical	15	15	35	25	50
TOTAL					750

SEMESTER VII:

Name of the subjects	INTERNAL EXAMS (Minimum: No Minimum)		University Semester Exams Marks	Total Marks (Internal + Semester Exams)	
	Maximum	Total		Minimum	Maximum
Instrumental Methods of Analysis – Theory	25	25	75	50	100
Industrial Pharmacy II – Theory	25	25	75	50	100
Pharmacy Practice – Theory	25	25	75	50	100
Novel Drug Delivery System- Theory	25	25	75	50	100
Instrumental Methods of Analysis Practical	15	15	35	25	50
Practice School*	25	25	125	75	150
TOTAL					600

* NUE- Non University Examinations

SEMESTER VIII

Name of the subjects	INTERNAL EXAMS (Minimum: No Minimum)		University Semester Exams Marks	Total Marks (Internal + Semester Exams)	
	Maximum	Total		Minimum	Maximum
Biostatistics and Research Methodology - Theory	25	25	75	50	100
Social and Preventive Pharmacy - Theory	25	25	75	50	100
Elective 1 ** (BP803ET-BP807ET)	25	25	75	50	100
Elective 2 ** (BP808ET-BP813ET)	25	25	75	50	100
Project Work***	-	-	75	75	150
TOTAL					550

** Electives 1 and 2 can be chosen by the candidates from the list of course titles as given in Table XII.

*** The credit point assigned for extracurricular and or co-curricular activities shall be added to the Project work (6 credits for Project work and one credit for presentation or publication as a part of their project work.

13.2 Internal assessment: Continuous mode

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

Table-XVII: Scheme for awarding internal assessment: Continuous mode

Theory		
Criteria	Maximum Marks	
Attendance (Refer Table – XVIII)	4	2
Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, fieldwork, 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- XVIII: 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

13.3 CAT Exams

Two CAT exams shall be conducted for each theory / practical course as per the schedule fixed by the School of Pharmacy, DSU. The scheme of question papers for theory and practical CAT examinations is given below and it should match with course outcomes (Cos) of the respective syllabus. The average marks of two CAT exams shall be computed for internal assessment as per the requirements given in Table – XV.

The CAT exam shall be conducted for 30 marks for theory and calculated for 15 marks. Similarly, the CAT exam for practicals shall be conducted for 40 marks and calculated for 10 marks.

Question paper pattern for theory CAT examinations for subjects having University examination		
Pattern		Marks
I.Long Answers (Answer 1 out of 2)	=	1x10=10
II.Short Answers (Answer 2 out of 3)	=	2x5=10
III.Multiple Choice Questions (MCQs)	=	10x1=10
Or Objective Type Questions		5x2=10
Total	=	30 Marks

For subjects having Non-University Examination		
Pattern		Marks
I.Long Answers (Answer 1 out of 2)	=	1x10=10
I.Short Answers (Answer 4 out of 6)	=	4x5=20
Total	=	30 Marks

Question paper pattern for Practical CAT examinations		
Pattern		Marks
I. Synopsis	=	10
II. Experiment	=	25
III. Viva Voce	=	5
Total	=	40 Marks

Question paper pattern for End Semester Theory examinations for 75 marks		
Pattern		Marks
I. Long Answers (Answer 2 out of 3)	=	2x10=20
II. Short Answers (Answer 7 out of 9)	=	7x5=35
III. Multiple Choice Questions (MCQs)	=	20x1=20
Or Objective Type Questions		10x2=20
Total	=	75 Marks

Question paper pattern for End Semester Theory examinations for 50 marks		
Pattern		Marks
I. Long Answers (Answer 2 out of 3)	=	2x10=20
II. Short Answers (Answer 6 out of 8)	=	6x5=30
Total	=	50 Marks

Question paper pattern for End Semester Theory examinations for 35 marks		
Pattern		Marks
I. Long Answers (Answer 1 out of 2)	=	1x10=10
II. Short Answers (Answer 5 out of 7)	=	5x5=25
Total	=	35 Marks

Question paper pattern for Practical End Semester examinations		
Pattern		Marks
I. Synopsis	=	5
II. Experiment	=	25
III. Viva Voce	=	5
Total	=	35 Marks

14. Evaluation pattern for Theory & Practical Examinations:

- All practical examinations must be held in the respective subject areas.
- One internal and one external examiner should jointly conduct the university practical examinations.
- An examiner for the Theory & Practical examination should be an Asst. Prof. in a school with post-graduation in a concerned subject & a minimum of 3 years of teaching experience.
- **Internal-** An aggregate of 2 CAT will be considered for Internal Marks (25 & 15 for Theory and Practical respectively).

- Maximum number of candidates for practical examination should not exceed 25 per batch.
- Continuous Mode mark split for Attendance, Assignment & Practical Records respectively.
- *Non-University Examination (NUE) subjects shall be conducted.

15. Malpractices in Examinations and Misconduct of Students

15.1 The Chief Superintendent / CoE shall be responsible for dealing all cases of unfair means by students in writing records, assignments and examinations as applicable

15.2 The invigilator or the course teacher concerned shall report each case of unfair means with full details of the evidence of malpractice and written explanation of the student concerned to the Dean immediately.

15.3 The Chief Superintendent / CoE shall take appropriate action on receipt of the report and the penalty may be given as per the University norms defined.

16. Promotion and award of grades

A student shall be declared PASS and eligible for getting a grade in a course of the 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.

17. Carry forward of marks

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified in 13, then he/she shall reappear for the end semester examination of that course. However, his/her marks of the Internal Assessment shall be carried over and he/she shall be entitled to the grade obtained by him/her on passing.

18.Improvement of internal assessment

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

19.Re-examination of end-semester examinations

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

20.Academic Progression:

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

- a. 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 completed.
- b. 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.
- c. 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.
- d. A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to VIII semesters within the stipulated period as per the norms specified in 26.
- e. 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 completed.
- f. 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 completed.
 - g. 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 period as per the norms.
 - h. Any student who has been given more than 4 chances for successful completion of I / III semester courses and more than 3 chances for successful completion of II / IV semester courses shall be permitted to attend V / VII semester classes ONLY during the subsequent academic year as the case may be. In simpler terms there shall NOT be any ODD BATCH for any semester.
 - i. **Note:** Grade AB should be considered as failed and treated as one head for deciding academic progression. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

21. Grading of performances

21.1. 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 – XIX.

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

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

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

22. The Semester grade point average (SGPA)

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

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

The SGPA is calculated to two decimal points. It should be noted that the SGPA for any semester shall take into consideration the F and ABS grade awarded in that semester. For example, if a learner has a F or ABS grade in course 4, the SGPA shall then be computed as:

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

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

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

24. 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

25. Project work

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

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

Evaluation of Dissertation Book:

Objective(s) of the work done	15 Marks
Methodology adopted	20 Marks
Results and Discussions	20 Marks
Conclusions and Outcomes	20 Marks

Total	75 Marks
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Evaluation of Presentation:

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

Total	75 Marks
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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 the presentation shall be awarded based on the performance of individual students in the given criteria.

26. 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 the 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 Semester – VI and before the commencement of Semester – VII shall submit a satisfactory report of such work and certificate duly signed by the authority of the training organization to the head of the institute.

27. Award of Ranks

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

Ranks.

28. Award of degree

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

29. 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.

30. Re-admission after break of study

A candidate who seeks re-admission to the program after a break of study has to get 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.

31. Discontinuance and Readmission

31.1 Students admitted to any of the courses discontinuing their studies with permission of the concerned Dean before completing the course may be re-admitted to the course if they have completed at least one semester before such discontinuance.

31.2 A student discontinuing studies temporarily on valid and genuine grounds with prior permission of the Dean of the School will be awarded a Grade 'E' for all the registered courses. The student has to rejoin with the permission of the Dean at the beginning of the same semester along with the junior batch of students on payment of a re-registration fee and semester fee.

31.3 When a student discontinues his/her studies in a semester (other than the first semester) on his/her own accord after getting the written permission of the

dean concerned or by the order of the University, he/she shall be re-admitted in the same semester where he/she discontinued, along with the junior batch of students.

31.4 In case of revision of curricula and syllabi the student has to complete all the course works in the original syllabus in which he/she has joined, by registering equivalent/special semester courses (or) the student has to forgo all the courses registered so far in the original curricula and syllabi and register all the courses from first semester in the new syllabus along with juniors.

31.5 A student shall not be allowed to discontinue consecutively, beyond a period of two semesters. If the discontinuance period exceeds two semesters the name of the student will be removed from the roll.

32. Approval of Final Results for Certificates and Transcripts:

The Vice-Chancellor shall approve the final results. The Registrar shall issue Provisional Certificates, Transcripts, and Migration Certificates to the Candidates. The Transcript Card shall contain details of all the courses and the Grades and CGPA obtained by the candidates indicating the number of times appeared. This will be prepared for all the students by the Controller of Examinations and countersigned by the Registrar. To prepare a Transcript Card, the Deans should send a recent passport photograph (size 5.0 x 3.75 cm) of the student along with filled in proforma and the required fee as specified by the Controller of Examinations. The Transfer Certificate and Conduct Certificate shall be issued by the Registrar.

33. Tuition Fees and other fees

33.1 In case of new admissions, the students should pay the first semester fees on the date specified failing which admission will be cancelled.

33.2 In other cases, the fees are payable within seven working days including

the date of registration. If the seventh day happens to be a holiday, the next working day shall be the last date for payment of fees without fine.

33.3 In case of default of full payment within seven working days, a fine of Rs.100/day along with semester fees will be collected. The students who fail to pay tuition fees "**within 30 days**" of the commencement of the semester will not be allowed to attend classes and their name will be struck off the rolls.

33.4 Students who are away on study tour or other extra-curricular activities organized by the University or Colleges concerned with proper permission from the Dean may, however, pay their tuition fees and other fees within **three working days** after they return from such assignments.

33.5 A student who has been granted scholarship by the Adi-Dravidar Welfare Department or by the Government of India or State Government through the Director, Adi-Dravidar Welfare, Chennai will however be exempted from the levy of fines, provided the scholarship is actually sanctioned to him/her. In case of default of payment on the day next to the day of the disbursement of the scholarship amount, the student shall be permitted to pay the fees within seven working days by paying a fine of Rs.15/- failing which the name will be struck off the rolls. The concession mentioned above will apply to those who have actually been granted scholarship and not those who have applied for and are expecting sanctions.

33.6 In case of a student who re-registers with junior batch, he/she has to pay the tuition fee applicable to the junior batch semester in which he/she registers besides re-registration fee.

33.7 In the case of two overlapping of semesters the student need not pay the semester fee for the registration of courses in the overlapping semester, but

overlapping period should be within 40 days from the date of registration of the regular semester.

33.8 Collection of Penalty for Special Semester Courses: A penalty equivalent to tuition fee in addition to special semester fee is to be collected from the students who register for the special semester.

33.9 In case of a student who registers courses along with juniors after completion of four-year study period the student need to pay all the fee including self- supporting fee as applicable to junior batch students.

34. Fee for Newly Admitted Candidates

- a. Newly admitted candidates will pay the fee to the DSU. The students shall register the course only after payment of all the fees.
- b. Candidates who discontinue after first semester are not eligible for refund of any other fee except a caution money deposit.
- c. At the time of payment of fee from the second semester onwards, the student shall produce the identify card and no-due certificate from the hostel.

35. Removal of Difficulties

35.1 If any difficulty arises in giving effect to the provisions of these regulations, the Vice-Chancellor may issue necessary orders which appear to him to be necessary or expedient for removing the difficulty.

35.2 Every order issued by the Vice Chancellor under this provision shall be laid before the Academic Council of the University immediately after the issuance.

35.3 Notwithstanding anything contained in the rules and regulations, the Academic Council shall make changes whenever necessary.



**DHANALAKSHMI SRINIVASAN
UNIVERSITY**

Samayapuram, Tiruchirappalli – 621 112, Tamilnadu, India.

**EXAMINATION RULES &
REGULATIONS**

for

BACHELOR OF PHARMACY (B.Pharm)

DEGREE PROGRAM

[Credit Based Semester System]

(Effective from the Academic year 2024–2025)



DHANALAKSHMI SRINIVASAN UNIVERSITY

SCHOOL OF PHARMACY

UNDERGRADUATE PROGRAMME -2023-24

EXAMINATION RULES AND REGULATIONS

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SCHOOL OF PHARMACY

B. PHARM -2023-24

EXAMINATION RULES AND REGULATIONS

01. REGULATIONS

Examination Rules and Regulations for the Bachelor's degree Programmes (Semester system)

The Regulations provided herein shall apply to all the bachelor's degree programmes offered by Dhanalakshmi Srinivasan University.

The system of instructions and education in the University will be SEMESTER COURSE CREDIT SYSTEM.

02. SHORT TITLE

These regulations shall be called as "The Examination Regulations for the B. Pharm. Degree Program – 2024 (as per PCI B.Pharm ER 2014)". They shall come into effect from the Academic Year 2024–25. The regulations framed are subject to modifications from time to time by Dhanalakshmi Srinivasan University, Samayapuram, Tiruchirappalli.

03. DEFINITIONS

3.1 **Academic Year** means a period consisting of two consecutive semesters including the inter-semester break as announced by the University/ Deans of respective colleges. The first year of study shall be the first and second semesters following a student's admission. The second year of study shall be the third and fourth semesters; the third year, the fifth and sixth semesters and the fourth year, the seventh and eighth semesters.

3.2 **Curriculum** is a group of courses and other specified requirements for the fulfillment of the degree programme.

3.3 **Curricula and Syllabi** are a list of approved courses for Degree

Programme wherein each course is identified with a three-letter code, a course number, outline of syllabus and credit assigned.

- 3.4 **Course** is a teaching unit of a discipline to be covered within a semester as detailed in the Curricula and Syllabi issued by the University.
- 3.5 **Credit Load** of a student during a semester is the total number of credits of all the courses a student registers during that particular semester.
- 3.6 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 are dependent on the number of hours of instruction per week in that course and are 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**.
- 3.7 **Grade Point** means the total marks in percentage obtained in a course divided by 10 and rounded to two decimal places.
- 3.8 **Semester Grade Point Average (SGPA)** means performance of a student in a semester is indicated by a number called 'Semester Grade Point Average' (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses by the student during the semester. For example, if a student takes five courses (Theory/Practical) in a semester with credits C1, C2, C3, C4 and C5 and the student's grade points in these courses are G1, G2, G3, G4 and G5, respectively, and then students' SGPA is equal to

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

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

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

- 3.10 **Duration of Semester** means the duration of each semester of 100 working days inclusive of the mid-semester and practical examinations but excluding the study holidays and final theory examinations.
- 3.11 **Transcript Card** is the consolidated report of academic performance of a student issued by the University on completion of the curriculum.
- 3.12 **Class Grade Chart** means a grade chart prepared by the Controller of Examinations indicating marks obtained by the students belonging to a particular class for each course.
- 3.13 **Statement of Marks** means a report of grades, SGPA and OGPA obtained by a student in a particular semester.
- 3.14 **Re-examination / Reappearance** is an examination written for the failed courses by a student without undergoing regular class/course.

04. SYSTEM OF EDUCATION

- 4.1 **Maximum Duration Permissible:** The system of education followed for

all the undergraduate programmes is a Semester System with a duration of four academic years (8 Semesters). The maximum duration permissible for a student shall be 'n' plus four academic years (16 semesters), where 'n' denotes the normal duration of the degree programme (8 semesters). The hostel facilities will be provided only for the actual duration of academic Programme.

- 4.2 **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 Project over the duration of eight semesters. The credits are distributed semester-wise as shown in Table I.

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.

Table-I: Semester wise credits distribution

Semester	Credit Points
I	27/29 ^{\$} /30 [#]
II	29
III	24
IV	28
V	26
VI	30
VII	24
VIII	23 [@]
Total credit points for the program	211/213^{\$}/214[#]

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

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

^{\$} #Credit points will be reflected in the final marks statement

[@] Involves one credit point for Extracurricular/ Cocurricular activities

4.3 **Maximum Credit Load:** A student can register for a maximum of 30 credits during a semester. An additional 1 credit shall be permitted at the discretion of The Dean.

4.4 **Working Days and Time Schedule:** Except Saturday, Sundays and other listed holidays, all other days of a week are working days for the students.

Working Hours: 9.00 a.m. to 5.00 p.m.

4.5 **Commencement and Closure of Semesters:** The date of commencement and closure of semesters as well as inter-semester break shall be announced by the Deans of the college after the approval of the Deans' committee. The schedule of the final theory examinations shall be announced by the Controller of Examinations in consultation with the Deans of Colleges. The University through the Deans' Committee should approve any deviation after dates are announced.

4.6 **Academic Calendar:** A common academic calendar shall be prepared by the Faculty Dean every year by including the date of registration, date of CAT examinations, final theory examinations, inter-semester break and summer holidays for all the undergraduate programmes. The Deans of all Colleges shall schedule the academic activities within the specified period without deviation.

4.7 **Condensation of Semesters:** The Dean concerned has the responsibility to adhere to the common Academic Calendar. However, under extraordinary situations upon the recommendation of Dean's Committee and with the permission of the University, the condensation of the semester may be made up to a maximum of 10 days to cope with the examination schedule. The loss of classes in such cases should be compensated by a special timetable.

05. **REGISTRATION OF COURSES**

- 5.1 A course shall be offered only once in an academic year during the semester as listed in the course curricula and syllabi.
- 5.2 All eligible candidates shall register the requisite courses at the beginning of each semester **IN PERSON or ONLINE** under the guidance of the Co-ordinator. **IN ABSENTIA registration will not be permitted under any special / needy circumstance.**
- 5.3 **Registration without fine:** The courses prescribed for a semester can be registered on the date scheduled in the academic calendar. The registration is also permitted on the second day (which is the first working day of the semester) without fine.
- 5.4 **Registration with fine:** Late registration shall be permitted by the Deans concerned up to seven working days inclusive of the date of registration on payment of a late registration fee.
- 5.5 **Procedure to get permission for late registration:** The student concerned shall apply with proper reason to the Dean concerned through the Academic Counselor and Coordinator to get the permission of the Dean for the late registration of the courses. Beyond the prescribed time limit, no student shall be permitted to register the courses for a particular semester.

06. **ATTENDANCE REQUIREMENTS**

- 6.1 A minimum of 80 percent attendance separately in theory and practical of the concerned course is a must, failing which the student shall not be permitted to appear for both final theory and practical examination in the course concerned and grade 'E' (incomplete) will be awarded. The student must re-register the course when offered again, with the permission of the Dean.

- 6.1.1 For the first year of first semester students, for calculating 80 per cent attendance the number of working days will be calculated only from the date of joining of the student.
- 6.2 Students failing to attend the classes/ examinations on unofficial ground will be treated as 'absent'.
- 6.3 Students deputed for sports, cultural meets, etc., with prior permission of the Deans of the colleges shall be given attendance for the period of absence. However, students under this category must have attended a minimum of 50% classes in the total theory and practical classes conducted.
- 6.4 **Calculation of Attendance**

Table- II: 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

07. EXAMINATIONS

- 7.1 **CAT Examination:** Writing the mid-semester examination is a pre-requisite for writing the final theory and practical examinations. Students failing to write mid-semester examination, will not be permitted to attend the classes further in the course concerned and the student will be awarded 'E' grade. The mid-semester examination mark list should reach the office of the Controller of Examinations within fifteen days from the date of conduct of mid-semester examination.
- 7.2 **Missing Examination:** A student who fails to attend a mid-semester examination due to unavoidable circumstances shall be permitted with

prior approval of the Dean to take up missing examination of the particular course, subject to payment of Rs.1000/- for each missing mid-semester examination. Students deputed for official programmes of the University are exempted from paying the fee for missing test. Such missing examinations should be completed outside the regular class hours within 15 working days of the respective examinations. Attendance will not be given for taking up missing examinations. The missing examinations are allowed only for mid-semester examinations and not for final theory and practical examinations.

7.3 Examinations pattern

Mid Semester examination –Handwritten Mode

Final Theory Examination – Handwritten mode

Practical Examination: The Deans of Colleges will announce the schedule of final practical examinations. The Controller of Examinations, based on the proposal sent by the Deans concerned, will nominate the external examiner and the course teacher shall be the internal examiner.

7.4 **Theory / Practical Examination:** An examination schedule approved by the Dean and the Controller of Examinations for the mid-semester and final examinations, respectively, shall be final. Laptop is mandatory for e-classroom and online examinations.

Duration for mid-semester and final theory examinations

CAT EXAMS: 1.5 hours (Handwritten)

I. Long Answers (Answer 1 out of 2)	=	1 x 10 = 10
II. Short Answers (Answer 2 out of 3)	=	2 x 5 = 10
III. Short Notes (Answer all the questions)	=	5 x 2 = 10
TOTAL	=	30 marks

CAT Practical: 4 hours

I. Synopsis	=	10
II. Experiments	=	25
III. Viva voce	=	5
Total		= 40 marks

End Semester Theory: 3 hours (Handwritten)

I. Long Answers (Answer 2 out of 3)	=	2 x 10 = 20
II. Short Answers (Answer 7 out of 9)	=	7 x 5 = 35
III. Short Notes (Answer all the questions)	=	10 x 2 = 20
Total		= 75 marks

End Semester Practical: 4 hours

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

7.5 **Postponement of Final Examination:** Whenever the Government declares holidays on the dates of final examinations, the examination that falls on the particular date will be postponed to the date after the last examination as per the original examination schedule.

7.6 **Improvement and Re-examination:** Improvement and re-examination is permitted only for the final theory and practical examinations. The students are permitted to write the improvement and re-examinations as and when conducted with the permission of Deans of Colleges. The camp requirement in NSS and NCC may be allowed along with juniors if the student has secured more than 80% attendance in the regular courses.

7.7 Fees due clearance certificate have to be produced by every student before taking the final examinations.

7.8 The minimum grade point to be secured for a pass in a course is 5.99.

7.9 A student has to maintain a minimum OGPA of at least 5.00 out of 10.00 at the end of final year to become eligible for the award of degree.

- 7.10 Reappearance examination for the undergraduate failed subjects shall be conducted once in six months, during the semester breaks for 75 marks.

08. BREAK-IN SYSTEM:

The Break-In System 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.
- 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 OGPA upon successful completion of the courses of III to VIII semesters within the stipulated time period.
- Any student who has given more than 4 chances for successful completion of I / III semester courses and more than 3 chances for successful completion of II / IV semester courses shall be permitted to attend V / VII semester classes ONLY during the subsequent academic year as the case may be.

9. DISCONTINUANCE AND READMISSION

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.

10. EVALUATION OF COURSEWORK

10.1 The results of the course shall be indicated by grade points ranging from 0 to 10. The minimum grade point to be secured for the successful completion of a course will be 5.00. Securing a grade point less than 5.00 in a course will be treated as 'F' and the grade point will be 0 for calculating the SGPA/OGPA.

10.2 The following symbols shall be used

AB – ABSENT

P – PASS

F – FAILED

E – INCOMPLETE (Lack of 80% Attendance)

EE – INCOMPLETE FOR REASONS OTHER THAN ATTENDANCE

RR – RE-REGISTRATION

RE – RE-EXAMINATION

IE – IMPROVEMENT EXAMINATION

SGPA – SEMESTER GRADE POINT AVERAGE

CGPA – CUMULATIVE GRADE POINT AVERAGE

10.3 Each course shall carry a maximum of 100 marks (Theory) or 50 marks (Practicals) which may be distributed as follows:

A. COURSES WITH PRACTICALS

Details	CAT - Assessment			Total	End Semester Exams		Total Marks
	Continuou s Mode	Mid Term Exam			Marks	Duration	
		Marks	Duration				
Theory	10 m	15 m	1 h	25 m	75 m	3 h	100 m
Practical	5 m	10 m	4 h	15 m	35 m	4 h	50 m

Internal Continuous Assessment

Theory		
Criteria	Maximum Marks	
Attendance (Refer Table – XVIII)	4	2
Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, fieldwork, 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	

B. COURSES WITH ONLY THEORY

Details	CAT - Assessment			Total	End Semester Exams		Total Marks
	Continuous Mode	Mid Term Exam			Marks	Duration	
		Marks	Duration				

Theory	10 m	15 m	1 h	25 m	75 m	3 h	100 m
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C. EVALUATION PATTERN FOR PRACTICAL EXAMINATIONS

End Semester Practical: 4 hours

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

11. APPROVAL OF FINAL RESULTS, AWARD OF DEGREE AND ISSUE OF PROVISIONAL CERTIFICATES AND TRANSCRIPTS

11.1 **Award of Degree:** The degrees for the different undergraduate programmes shall be awarded during Annual Convocation conducted in the University under the seal of the University to candidates who have successfully completed the graduation requirements (credits requirement).

11.2 **Eligibility for the Award of the Degree:** The successful completion of all the prescribed courses included in the Curricula and Syllabi and an Overall Grade Point Average (OGPA) of 5.00 shall be a minimum requirement for the award of the Degree.

11.3 **Approval of Final Results for Certificates and Transcripts:** The Vice-Chancellor shall approve the final results. The Registrar shall issue Provisional Certificates, Transcripts, and Migration Certificates to the Candidates.

11.4 The Transfer Certificate and Conduct Certificate shall be issued by The Registrar of DSU.

11.5 The Vice-Chancellor is empowered to withhold or cancel the degree awarded when a mistake willfully committed by a student is detected at a later date regarding the registration, OGPA and other requirements for successful completion of the respective degree/programme.

11.6 **Amending or Canceling the Result:** If it is established that the result of a candidate has been vitiated by malpractice, fraud or other improper conduct and that he/she has been a party to malpractice connivance or improper conduct of another student, the Vice Chancellor shall have the powers at any time to amend the results of such a candidate and to make such declaration as the Vice Chancellor may deem necessary on that behalf including return of prize, scholarship money and debarring the candidate from the University for such periods as may be specified and to cancel the results of the candidate in such manner as the Vice Chancellor may decide.

12. **RULES FOR STUDENTS STUDYING AFTER N+4 OR N+ 5 YEARS**

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.

13. **EXAMINATIONS CALENDAR**

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