SANDIP UNIVERSITY

School of Pharmaceutical Sciences

B.Pharmacy

Course of Study

Academic year : 2025-26

SANDIP UNIVERSITY

School Name: School of Pharmaceutical Sciences

Programe Name : Bachelor of Pharmacy (B.Pharmacy)

Duration: Four Years

Pattern: Semester

Academic year :2025-26

Sandip University

School of Pharmaceutical Sciences

Pharmacy Council of India,New Delhi

Rules & Syllabus for the Bachelor of Pharmacy (B. Pharm) Course

[Framed under Regulation 6, 7 & 8 of the Bachelor of Pharmacy (B. Pharm) course regulations 2014]

CHAPTER- I: REGULATIONS

1. Short Title and Commencement

These regulations shall be called as "The Revised Regulations for the B. Pharm. Degree Program (CBCS)of the Pharmacy Council of India, New Delhi". They shall come into effect from the Academic Year 2016-17. The regulations framed are subject to modifications from time to time by Pharmacy Council of India.

Minimum qualification for admission

2.1 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 over a period of eight semesters (four academic years) and six semesters (three academic years) for lateral entry students. The curricula and syllabi for the program shall be prescribed from time to time by Pharmacy Council of India, New Delhi.

4. Medium of instruction and examinations

Medium of instruction and examination shall be in English.

5. Working days in each semester

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

6. Attendance and progress

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

7. Program/Course credit structure

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

Credit assignment

Theory and Laboratory courses

Courses are broadly classified as Theory and Practical. Theory courses consist of lecture (L) and /or tutorial (T) hours, and Practical (P) courses consist of hours spent in the laboratory. Credits (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and tutorial hours, and a multiplier of half (1/2) for practical (laboratory) hours. Thus, for example, a theory course having three lectures and one tutorial per week throughout the semester carries a credit of 4. Similarly, a practical having four laboratory hours per week throughout semester carries a credit of 2.

Minimum credit requirements

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

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

8. Academic work

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

9. Course of study

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

Table-I: Course of study for semester I

Course code	Name of the course	No. of hours	Tutorial	Credit points
17YBH101	Human Anatomy and Physiology I– Theory	3	1	4
17YBH102	Pharmaceutical Analysis I – Theory	3	1	4
17YBH103	Pharmaceutics I – Theory	3	1	4
17YBH104	Pharmaceutical Inorganic Chemistry – Theory	3	1	4
17YBH105	Communication skills – Theory *	2	-	2
17YBH1106 17YBH107	Remedial Biology/ Remedial Mathematics – Theory*	2	-	2
17YBH111	Human Anatomy and Physiology – Practical	4	-	2
17YBH112	Pharmaceutical Analysis I – Practical	4	-	2
17YBH113	Pharmaceutics I – Practical	4	-	2
17YBH114	Pharmaceutical Inorganic Chemistry – Practical	4	-	2
17YBH115	Communication skills – Practical*	2	-	1
17YBH116	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-II: Course of study for semester II

Course Code	Name of the course	No. of hours	Tutorial	Credit points
17YBH201	Human Anatomy and Physiology II – Theory	3	1	4
17YBH202	Pharmaceutical Organic Chemistry I – Theory	3	1	4
17YBH203	Biochemistry – Theory	3	1	4
17YBH204	Pathophysiology – Theory	3	1	4
17YBH205	Computer Applications in Pharmacy – Theory *	3	-	3
17YBH206	Environmental sciences – Theory *	3	-	3
17YBH211	Human Anatomy and Physiology II –Practical	4	-	2
17YBH212	Pharmaceutical Organic Chemistry I– Practical	4	-	2
17YBH213	Biochemistry – Practical	4	-	2
17YBH214	Computer Applications in Pharmacy – Practical*	2	-	1
	Total	**32**	**4**	**29**

*****Non University Examination (NUE)

Table-III: Course of study for semester III

Course code	Name of the course	No. of hours	Tutorial	Credit points
17YBH301	Pharmaceutical Organic Chemistry II – Theory	3	1	4
17YBH302	Physical Pharmaceutics I – Theory	3	1	4
17YBH303	Pharmaceutical Microbiology – Theory	3	1	4
17YBH304	Pharmaceutical Engineering – Theory	3	1	4
17YBH311	Pharmaceutical Organic Chemistry II – Practical	4	-	2
17YBH312	Physical Pharmaceutics I – Practical	4	-	2
17YBH313	Pharmaceutical Microbiology – Practical	4	-	2
17YBH314	Pharmaceutical Engineering –Practical	4	-	2
	Total	**28**	**4**	**24**

Table-IV: Course of study for semester IV

Course code	Name of the course	No. of hours	Tutorial	Credit points
17YBH401	Pharmaceutical Organic Chemistry III– Theory	3	1	4
17YBH402	Medicinal Chemistry I – Theory	3	1	4
17YBH403	Physical Pharmaceutics II – Theory	3	1	4
17YBH404	Pharmacology I – Theory	3	1	4
17YBH405	Pharmacognosy and Phytochemistry I– Theory	3	1	4
17YBH411	Medicinal Chemistry I – Practical	4	-	2
17YBH412	Physical Pharmaceutics II – Practical	4		2
17YBH413	Pharmacology I – Practical	4	-	2
17YBH414	Pharmacognosy and Phytochemistry I – Practical	4	-	2
Total		**31**	**5**	**28**

Table-V: Course of study for semester V

Course code	Name of the course	No. of hours	Tutorial	Credit points
17YBH501	Medicinal Chemistry II – Theory	3	1	4
17YBH502	Industrial PharmacyI– Theory	3	1	4
17YBH503	Pharmacology II – Theory	3	1	4
17YBH504	Pharmacognosy and Phytochemistry II– Theory	3	1	4
17YBH505	Pharmaceutical Jurisprudence – Theory	3	1	4
17YBH511	Industrial PharmacyI – Practical	4	-	2
17YBH512	Pharmacology II – Practical	4	-	2
17YBH513	Pharmacognosy and Phytochemistry II – Practical	4	-	2
Total		**27**	**5**	**26**

Table-VI: Course of study for semester VI

Course code	Name of the course	No. of hours	Tutorial	Credit points
17YBH601	Medicinal Chemistry III – Theory	3	1	4
17YBH602	Pharmacology III – Theory	3	1	4
17YBH603	Herbal Drug Technology – Theory	3	1	4
17YBH604	Biopharmaceutics and Pharmacokinetics – Theory	3	1	4
17YBH605	Pharmaceutical Biotechnology – Theory	3	1	4
17YBH606	Quality Assurance –Theory	3	1	4
17YBH611	Medicinal chemistry III – Practical	4	-	2
17YBH612	Pharmacology III – Practical	4	-	2
17YBH613	Herbal Drug Technology – Practical	4	-	2
	Total	**30**	**6**	**30**

Table-VII: Course of study for semester VII

Course code	Name of the course	No. of hours	Tutorial	Credit points
17YBH701	Instrumental Methods of Analysis – Theory	3	1	4
17YBH702	Industrial PharmacyII – Theory	3	1	4
17YBH703	Pharmacy Practice – Theory	3	1	4
17YBH704	Novel Drug Delivery System – Theory	3	1	4
17YBH711	Instrumental Methods of Analysis – Practical	4	-	2
17YBH712	Practice School*	12	-	6
	Total	**28**	**5**	**24**

*Non University Examination (NUE)

Table-VIII: Course of study for semester VIII

Course code	Name of the course	No. of hours	Tutorial	Credit points
17YBH801	Biostatistics and Research Methodology	3	1	4
17YBH802	Social and Preventive Pharmacy	3	1	4
17YBH803ET	Pharma Marketing Management	3 + 3 = 6	1 + 1 = 2	4 + 4 = 8
17YBH804ET	Pharmaceutical Regulatory Science			
17YBH805ET	Pharmacovigilance			
17YBH806ET	Quality Control and Standardization of Herbals			
17YBH807ET	Computer Aided Drug Design			
17YBH808ET	Cell and Molecular Biology			
17YBH809ET	Cosmetic Science			
17YBH810ET	Experimental Pharmacology			
17YBH811ET	Advanced Instrumentation Techniques			
17YBH812ET	Dietary Supplements and Nutraceuticals			
17YBH813	Project Work	12	-	6
	Total	**24**	**4**	**22**

Table-IX: Semester wise credits distribution

Semester	Credit Points
I	**27/29$/30#**
II	29
III	26
IV	28
V	26
VI	26
VII	24
VIII	22
Extracurricular/ Co curricular activities	01*
Total credit points for the program	**209/211$/212#**

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**.**