

JSS University
Sri Shivarathreeshwara Nagar
Mysore – 570 015

Bachelor of Pharmacy (B.Pharm) course

REGULATIONS

These regulations shall be called as “The Regulations for the B. Pharmacy Degree course of the J.S.S. University, Mysore”.

They shall come into force from the Academic Year 2008 – 2009.

The regulations framed are subject to modifications from time to time by the Academic Council.

Minimum qualification for admission to the course

1. Candidates who have passed two year P.U.C./P.D.C/H.S.C (10+2) examination or an equivalent examination of any approved Board or university with not less than 50% marks in any combination comprising P.C.M. or P.C.B or P.C.M.B.

Note: In respect of candidates who have taken P.C.M.B. Combination the aggregate of P.C.M. or P.C.B. whichever is higher shall be considered for the purpose of admission.

2. In case of students belonging to SC/ST/or Category-I, the minimum percentage of marks for admission to B. Pharm Course shall be not less than 40% in P.D.C. or its equivalent examination (P.C.B, or P.C.M. or P.C.M.B.).
3. Candidates who have passed, D. Pharm course with not less than 50% aggregate, from an institution, approved by Pharmacy Council of India shall be eligible to this course and shall be admitted directly to II B. Pharm course.

Duration of the course

The course of study for B.Pharm shall extend over a period of four academic years and three academic years for those admitted to second B. Pharm directly. The curricula and syllabi for the course shall be prescribed from time to time.

Medium of Instruction and Examinations

Medium of Instruction and Examination shall be English.

Working days in the academic year

Each academic year shall consist of not less than 200 working days.

Attendance and Progress

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

Course of study

The course of study for B.Pharm I, II, III and IV year shall include the respective Theory & Practical subjects as given in Table - I, II, III and IV respectively. The number of hours to be devoted to each theory and practical subject in an academic year shall not be less than that shown in Table - I, II, III and IV.

Academic Work

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

Internal Assessment Marks:

Theory: Three sessional examinations evenly spread during the academic year shall be conducted by the constituent colleges. The average marks of the best two examinations shall be computed out of a maximum of 30 marks and shall constitute the sessional award in theory. Provided further the colleges may conduct one special theory sessional examination towards the end of the academic session for those who might have missed any one of the regular sessional examination on genuine grounds.

Practical: Students are expected to perform the experiment listed in the respective syllabus. The number of experiments is also listed. Marks shall be awarded out of a maximum of 10 to each of the practical exercise and an average of those shall be computed out of maximum of 10 marks. In addition, three practical examinations evenly spread during each academic year shall be conducted. The average marks of the best of two practical examinations shall be computed out of a maximum of 20 marks. A total of 30 marks shall constitute the sessional award in practical. While awarding the sessional marks for practical experiments, the following considerations should be taken into account.

1. Preparation of the candidate.
2. Manipulative skills.
3. Results of the experiment.
4. Knowledge of the experiment
5. Viva voce pertaining to the experiments only.

The college shall maintain the sessional books of the students and the record of sessional award of the students. A regular record of both theory and practical class work and sessional examinations conducted in an institution imparting the course shall be maintained for each student in the institution. Marks shall be awarded as per the schemes given in Tables - V, VI, VII and VIII.

Conditions under which candidates are permitted to appear for annual university examination

The candidates are required to score a minimum of 50% marks in each of the subjects (Theory and practicals separately) in the sessional examination to be eligible to appear for annual university examination in the respective subject.

University Examinations

1. Every year there shall be an examination to examine the students.
2. Each examination will be held twice every year. The first examination in a year shall be the annual examination and the second examination shall be supplementary examination.
3. The examinations shall be of written and practical (including oral nature) carrying maximum marks for each part of a subject as indicated in Tables - V, VI, VII and VIII.

Question Pattern

Long Essay 2/3	= 2 x 15 = 30 marks
Short Essay 6/8	= 6 x 5 = 30 marks
Short Answers 5/7	= 5 x 2 = 10 marks

Total	70 marks

Criteria for pass

- a) Candidates who have secured a minimum of 50% marks in the Theory (including sessionals) and Practical (including sessionals) separately in any subject or subjects shall be declared to have passed in that subject/s and exempted from appearing in that subject/s at subsequent examination.
- b) Theory and Practical of a particular subject are considered as individual subjects for the purpose of pass criteria.
- c) Those candidates who fail in one or more subjects shall have to appear only in the subject so failed, in the subsequent examinations.

Conditions under which candidates are permitted to proceed to next higher class:

- a) Candidates of I B.Pharm are permitted to carry not more than any two subjects (Two Theory/ Two Practicals/ One theory & one practical of same or different subjects), to II B. Pharm and appear for II B.Pharm examination concurrently along with failed subjects of I B.Pharm. However, these candidates have to pass all the failed subjects of I B.Pharm to become eligible to proceed to III B.Pharm.
- b) Similarly, candidates of II B.Pharm who have completely passed all the subjects of I B.Pharm but have failed in II B.Pharm are permitted to carry not more than any two subjects (Two Theory/ Two Practicals/ One theory & one practical of same or different subjects), of II B.Pharm to III B.Pharm and appear for III B.Pharm concurrently along with failed subjects of II B.Pharm. However, these candidates have to pass all the failed subjects of II B.Pharm to become eligible to proceed to IV B.Pharm.

- c) Candidates of III B.Pharm who have completely passed all the subjects of II B.Pharm but have failed in III B.Pharm are permitted to carry not more than any two subjects (Two Theory/ Two Practicals/ One theory & one practical of same or different subjects), to III B.Pharm and appear for IV B.Pharm examination concurrently along with failed subjects of III B.Pharm and he/she has satisfactorily completed the project in the IV B. Pharm.

Declaration of class

Class shall be awarded at the end of I, II, III and final year of B.Pharm examination as shown below:

- | | |
|-----------------|---------------------------------|
| 1) Distinction | 75% and above |
| 2) First Class | 60% and above and less than 75% |
| 3) Second class | 50% and above and less than 60% |

The result of the successful candidate shall be classified at the end of the final year examination on the basis of the aggregate of all subjects, theory and practicals, secured by the candidate in the I to IV year examinations and completes the course in four years, as indicated below.

- | | |
|----------|-----------------|
| I Class | : 60% and above |
| II Class | : 50%-59% |

Candidate securing aggregate of 75% or above marks and have passed in all the subjects in a year in first attempt shall be declared to have obtained Distinction.

Project Work

All the students must submit a short report on a project study undertaken in any of the following subjects:-

- i. Pharmaceutics
- ii. Pharmaceutical Chemistry
- iii. Pharmacognosy
- iv. Pharmacology
- v. Pharmacy Practice

The project shall be carried out under the guidance of a teacher in the College. The project shall be carried out either individually or in groups not exceeding 5 in number. The project report shall be submitted in triplicate (typed copy not exceeding 25 pages).

The project will be evaluated by the examiner at the time of the Practical examination (Final Year) appointed by the University. The projects shall be evaluated by qualitative grading as Excellent / Good / Average. The evaluation of the project report shall not be considered for the purpose of pass/class/rank, but grading shall be included in the Mark Sheet of the Final B. Pharm Course.

Industrial Tour

Candidates studying in final year of the course shall visit several Pharmaceutical manufacturing houses as a supplement to their academic training and submit a report to the satisfaction of the Head of the institution where he/she has studied.

Award of Ranks

Ranks and Medals shall be awarded on the basis of aggregate of all the four university examinations. However, candidates who fail in one or more subjects during the B.Pharm courses shall not be eligible for award of ranks.

Moreover, the candidates should have completed the B. Pharm course in minimum prescribed number of years, (four years) for the award of Ranks.

Award of degree

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

Duration for completion of the course of study

The duration for the completion of the course shall be fixed as double the actual duration of the course and the students have to pass within the said period, otherwise they have to get fresh Registration.

Revaluation / Retotalling of answer papers

There is no provision for revaluation of the answer papers of failed candidates in any examination. However, the failed candidates can apply for retotalling.

Re-admission after break of study

Candidate who seeks re-admission to the course 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 course by paying the required fees.

Courses of study for B. Pharm

Table I: First year B. Pharm

Sl. No.	Subject	Theory hours / week	Practical hours / week
1.1	Human Anatomy & Physiology	03	03
1.2	Pharmaceutical Organic Chemistry - I	03	03
1.3	Pharmaceutical Inorganic Chemistry	03	03
1.4	General Pharmaceutics	03	03
1.5	Biostatistics & Computer Science	03	03
	Total number of Working hours	15	15
	Total		30 hours

Table II: Second year B. Pharm

Sl. No.	Subject	Theory hours / week	Practical hours / week
2.1	Physical Pharmaceutics	03	03
2.2	Pharmaceutical Organic Chemistry - II	03	03
2.3	Pharmaceutical Engineering	03	03
2.4	Applied Biochemistry	03	03
2.5	Pathophysiology	03	-
2.6	Pharmaceutical Jurisprudence & Management	03	-
	Total number of Working hours	18	12
	Total		30 hours

Table III: Third year B. Pharm

Sl. No.	Subject	Theory hours / week	Practical hours / week
3.1	Medicinal Chemistry -I	03	03
3.2	Pharmacology - I	03	03
3.3	Pharmacognosy & Phytochemistry	03	03
3.4	Pharmaceutical Biotechnology	03	03
3.5	Quality Assurance	03	-
3.6	Biopharmaceutics & Pharmacokinetics	03	-
	Total number of Working hours	18	12
	Total		30 hours

Table IV: Fourth year B. Pharm

Sl. No.	Subject	Theory hours / week	Practical hours / week
4.1	Medicinal Chemistry -II	03	03
4.2	Pharmacology - II	03	03
4.3	Advanced Pharmacognosy	03	03
4.4	Formulative and Industrial Pharmacy	03	03
4.5	Instrumental Method of Analysis	03	03
4.6	Pharmacy Practice	03	
	Total number of Working hours	18	15
	Total		33 hours

Scheme of Study and Examination

Table V: First year B. Pharm course

Sl. No.	Subject	Theory Examination				Total Marks	Practical Examination				Total Marks
		Sessional		Annual			Sessional		Annual		
		Duration (Hrs)	Marks	Duration (Hrs)	Marks		Duration (Hrs)	Marks	Duration (Hrs)	Marks	
1.1	Human Anatomy & Physiology	1.5	30	03	70	100	03	30	04	70	100
1.2	Pharmaceutical Organic Chemistry - I	1.5	30	03	70	100	03	30	04	70	100
1.3	Pharmaceutical Inorganic Chemistry	1.5	30	03	70	100	03	30	04	70	100
1.4	General Pharmaceutics	1.5	30	03	70	100	03	30	04	70	100
1.5	Biostatistics & Computer Science	1.5	30	03	70	100	03	30	04	70	100
	Total					500					500
	Grand Total										1000

Table VI: Second year B. Pharm course

Sl. No.	Subject	Theory Examination				Total Marks	Practical Examination				Total Marks
		Sessional		Annual			Sessional		Annual		
		Duration (Hrs)	Marks	Duration (Hrs)	Marks		Duration (Hrs)	Marks	Duration (Hrs)	Marks	
2.1	Physical Pharmaceutics	1.5	30	03	70	100	03	30	04	70	100
2.2	Pharmaceutical Organic Chemistry - II	1.5	30	03	70	100	03	30	04	70	100
2.3	Pharmaceutical Engineering	1.5	30	03	70	100	03	30	04	70	100
2.4	Applied Biochemistry	1.5	30	03	70	100	03	30	04	70	100
2.5	Pathophysiology	1.5	30	03	70	100	No Practical				
2.6	Pharmaceutical Jurisprudence & Management	1.5	30	03	70	100	No Practical				
	Total					600					400
	Grand Total										1000

Table VII: Third year B. Pharm course

Sl. No.	Subject	Theory Examination				Total Marks	Practical Examination				Total Marks
		Sessional		Annual			Sessional		Annual		
		Duration (Hrs)	Marks	Duration (Hrs)	Marks		Duration (Hrs)	Marks	Duration (Hrs)	Marks	
3.1	Medicinal Chemistry -I	1.5	30	03	70	100	03	30	04	70	100
3.2	Pharmacology - I	1.5	30	03	70	100	03	30	04	70	100
3.3	Pharmacognosy & Phytochemistry	1.5	30	03	70	100	03	30	04	70	100
3.4	Pharmaceutical Biotechnology	1.5	30	03	70	100	03	30	04	70	100
3.5	Quality Assurance	1.5	30	03	70	100	No Practical				
3.6	Biopharmaceutics & Pharmacokinetics	1.5	30	03	70	100	No Practical				
	Total					600					400
	Grand Total										1000

Table VIII: Fourth year B. Pharm course

Sl. No.	Subject	Theory Examination				Total Marks	Practical Examination				Total Marks
		Sessional		Annual			Sessional		Annual		
		Duration (Hrs)	Marks	Duration (Hrs)	Marks		Duration (Hrs)	Marks	Duration (Hrs)	Marks	
4.1	Medicinal Chemistry -II	1.5	30	03	70	100	03	30	04	70	100
4.2	Pharmacology - II	1.5	30	03	70	100	03	30	04	70	100
4.3	Advanced Pharmacognosy	1.5	30	03	70	100	03	30	04	70	100
4.4	Formulative and Industrial Pharmacy	1.5	30	03	70	100	03	30	04	70	100
4.5	Instrumental Method of Analysis	1.5	30	03	70	100	03	30	04	70	100
4.6	Pharmacy Practice	1.5	30	03	70	100	No Practical				
	Total					600					500
	Grand Total										1100